APPENDIX G – PHOTOGRAPHIC DOCUMENTATION

APPENDIX G.1 – PHOTOGRAPH LOG

APPENDIX G.2 – CONSTRUCTION PHOTOGRAPHS

APPENDIX G.1 – PHOTOGRAPH LOG

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Photograph Log

NewFields
Perspective. Vision. Solutions.

PHOTO NUMBER	PHOTOGRAPH DESCRIPTION	DATE TAKEN	PAGE
1	Confirmatory drilling of UG #6617	September 24, 2019	1
2	Grading structural fill	September 26, 2019	1
3	Excavation of leak detection trench	October 4, 2019	2
4	Leak detection trench	October 9, 2019	2
5	Scaling back UG #6617 to solid rock	October 21, 2019	3
6	UG #6617 structural fill temperature monitoring	October 21, 2019	3
7	UG #6617 compacting structural fill	October 21, 2019	4
8	UG #6617 structural fill placement	October 22, 2019	4
9	UG #6617 geogrid placement	November 6, 2019	5
10	Aerial photo of SLF placement	June 11, 2020	5
11	Placing and spreading SLF	June 15, 2020	6
12	SLF placement	July 16, 2020	6
13	Geomembrane exposure	August 19, 2020	7
14	SLF finish grading	August 20, 2020	7
15	SLF compaction	August 21, 2020	8
16	Anchor trench excavation	August 25, 2020	8
17	SLF moisture conditioning	August 26, 2020	9
18	Geomembrane deployment	August 26, 2020	9
19	SLF loadout area	September 1, 2020	10
20	Nuclear density testing	September 2, 2020	10

PHOTO NUMBER	PHOTOGRAPH DESCRIPTION	DATE TAKEN	PAGE
21	Fusion welding geomembrane	September 5, 2020	11
22	Extrusion welding geomembrane	September 11, 2020	11
23	Pressure testing a fusion weld	September 14, 2020	12
24	Vacuum testing a repair	September 15, 2020	12
25	Placement of DCF	September 17, 2020	13
26	SLF compaction	September 19, 2020	13
27	Geomembrane deployment	September 21, 2020	14
28	Placement of DCF	September 22, 2020	14
29	Anchor trench excavation	September 23, 2020	15
30	Nuclear density testing	September 23, 2020	15
31	DCF loadout area	September 24, 2020	16
32	Placement of DCF	September 25, 2020	16
33	Extrusion welding	September 25, 2020	17
34	HVSC pipe placement	October 1, 2020	17
35	DCF placement progress	October 7, 2020	18

APPENDIX G.2 – CONSTRUCTION PHOTOGRAPHS



Photo 1 – Confirmatory drilling of UG #6617 (September 24, 2019)



Photo 2 – Grading structural fill (September 26, 2019)



Photo 3 – Excavation of leak detection trench (October 4, 2019)



Photo 4 – Leak detection trench (October 9, 2019)



Photo 5 – Scaling back UG #6617 to solid rock (October 21, 2019)



Photo 6 –UG #6617 structural fill temperature monitoring (October 21, 2019)



Photo 7 –UG #6617 compacting structural fill (October 21, 2019)



Photo 8 –UG #6617 structural fill placement (October 22, 2019)



Photo 9 –UG #6617 geogrid placement (November 6, 2019)



Photo 10 – Aerial photo of SLF placement (June 11, 2020)



Photo 11 –Placing and spreading SLF (June 15, 2020)



Photo 12 –SLF placement (July 16, 2020)



Photo 13 – Geomembrane exposure (August 19, 2020)



Photo 14 – SLF finish grading (August 20, 2020)



Photo 15 – SLF compaction (August 21, 2020)



Photo 16 – Anchor trench excavation (August 25, 2020)



Photo 17 – SLF moisture conditioning (August 26, 2020)



Photo 18 – Geomembrane deployment (August 26, 2020)



Photo 19 – SLF loadout area (September 1, 2020)



Photo 20 – Nuclear density testing (September 2, 2020)

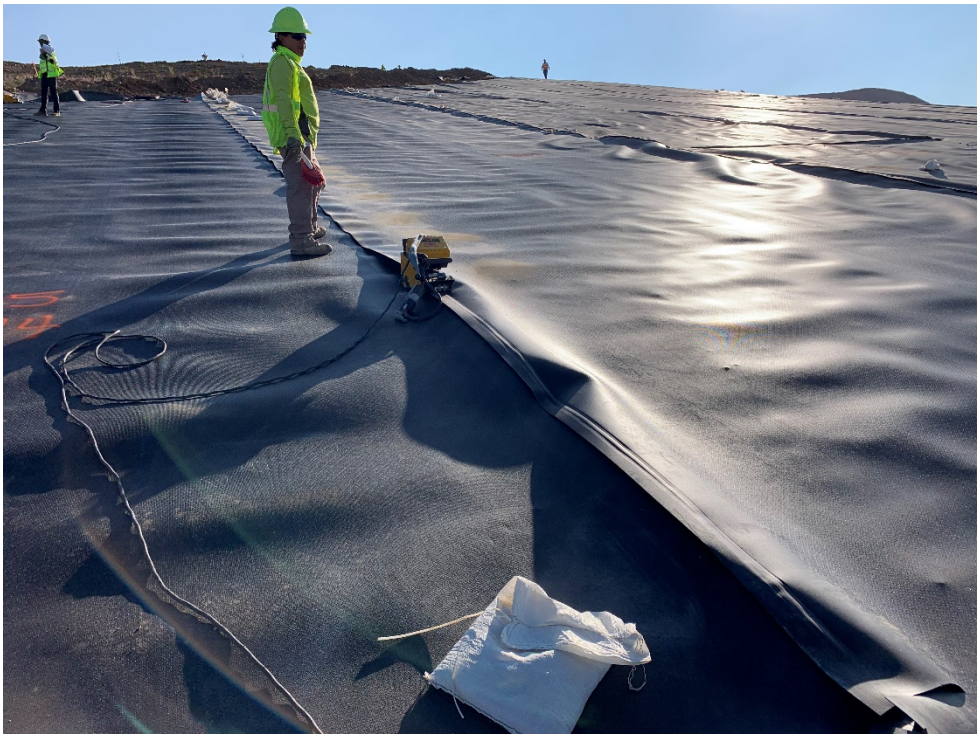


Photo 21 – Fusion welding geomembrane (September 5, 2020)



Photo 22 – Extrusion welding geomembrane (September 11, 2020)



Photo 23 – Pressure testing a fusion weld (September 14, 2020)



Photo 24 – Vacuum testing a repair (September 15, 2020)



Photo 25 – Placement of DCF (September 17, 2020)



Photo 26 – SLF compaction (September 19, 2020)



Photo 27 – Geomembrane deployment (September 21, 2020)



Photo 28 – Placement of DCF (September 22, 2020)



Photo 29 – Anchor trench excavation (September 23, 2020)



Photo 30 – Nuclear density testing (September 23, 2020)



Photo 31 – DCF loadout area (September 24, 2020)



Photo 32 – Placement of DCF (September 25, 2020)



Photo 33 – Extrusion welding (September 25, 2020)



Photo 34 – HVSC Pipe placement (October 1, 2020)



Photo 35 – DCF placement progress (October 7, 2020)

APPENDIX H – LABORATORY TEST RESULTS

APPENDIX H.1 – STRUCTURAL FILL LABORATORY TEST RESULTS

APPENDIX H.2 – LEAK DETECTION FILL LABORATORY TEST RESULTS

APPENDIX H.3 – SOIL LINER FILL LABORATORY TEST RESULTS

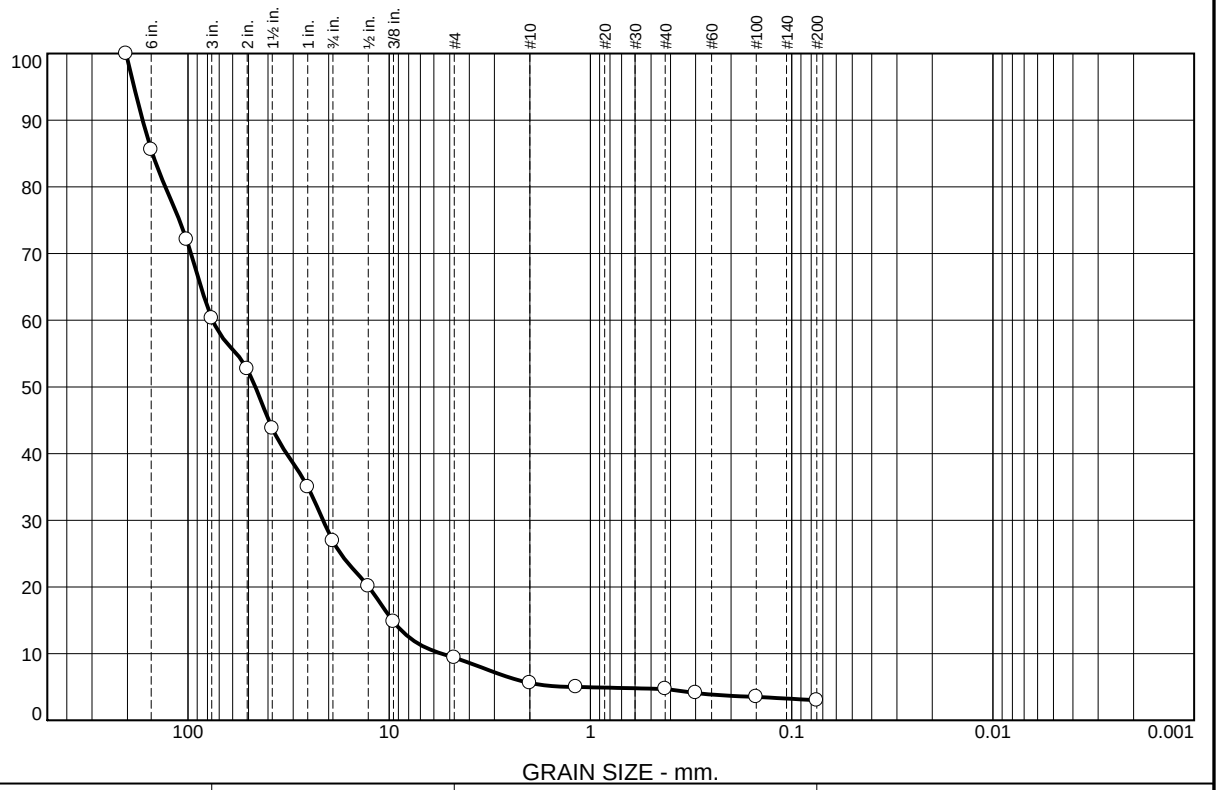
APPENDIX H.4 – DRAIN COVER FILL LABORATORY TEST RESULTS

APPENDIX H.5 – SELECT STRUCTURAL FILL LABORATORY TEST RESULTS

APPENDIX H.1 – STRUCTURAL FILL LABORATORY TEST RESULTS

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
39.7	33.4	17.5	3.8	0.9	1.7	3.0	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
8"	100.0		
6"	85.6		
4"	72.1		
3"	60.3		
2"	52.7		
1.5"	43.8		
1"	35.0		
3/4"	26.9		
1/2"	20.1		
3/8"	14.8		
#4	9.4		
#10	5.6		
#16	5.0		
#40	4.7		
#50	4.1		
#100	3.5		
#200	3.0		

* (no specification provided)

Material Description

Gray well-graded gravel

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D_{90}= 168.1199 D_{85}= 150.1162 D_{60}= 75.4538
D_{50}= 46.1936 D_{30}= 21.3292 D_{15}= 9.6402
D_{10}= 5.4930 C_u= 13.74 C_c= 1.10

Classification

USCS= GW AASHTO= A-1-a

Remarks

Location: N 56,590.0 E 37,304
Sample Number: NFSF-14-R **Depth:** FG **Date:** 05/10/2020

NewFields

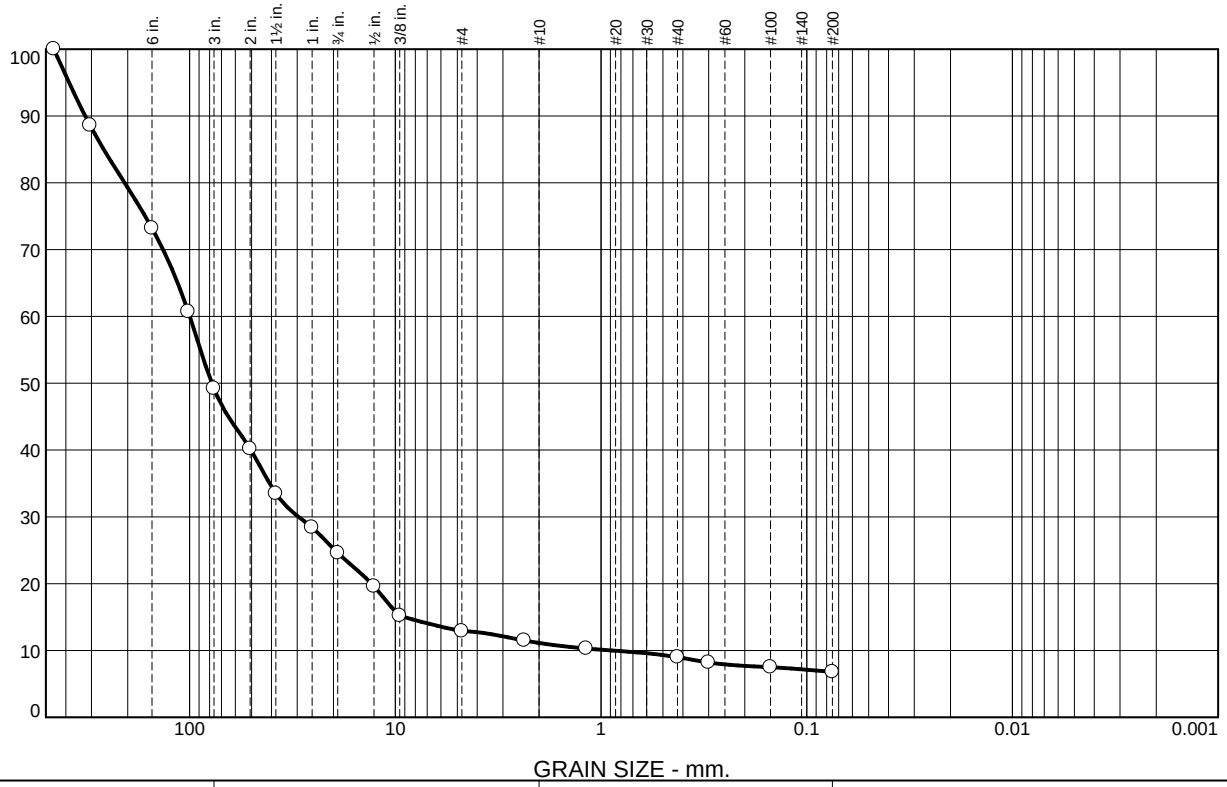
Client: CC&V Gold Mining Company
Project: VLF Phase 2B

Project No: 475.0106.032 **Figure** NFSF-14-R

Tested By: TW **Checked By:** TW

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

Particle Size Distribution Report



% +3"	% Gravel			% Sand			% Fines
	Coarse	Medium	Fine	Coarse	Medium	Fine	
50.8	20.8	13.2	4.1	1.5	1.7	1.1	6.8

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
18"	100.0		
12"	88.6		
6"	73.2		
4"	60.7		
3"	49.2		
2"	40.2		
1-1/2"	33.5		
1"	28.4		
3/4"	24.6		
1/2"	19.6		
3/8"	15.2		
#4	12.9		
#8	11.5		
#16	10.3		
#40	9.0		
#50	8.2		
#100	7.5		
#200	6.8		

* (no specification provided)

Material Description

Dark brown silty clayey gravel

Atterberg Limits

PL= 15 LL= 22 PI= 7

Coefficients

D_{90}= 321.8970 D_{85}= 261.6469 D_{60}= 99.8407
D_{50}= 78.0171 D_{30}= 29.5421 D_{15}= 9.0498
D_{10}= 0.8805 C_u= 113.39 C_c= 9.93

Classification

USCS= GC-GM AASHTO= A-2-4(0)

Remarks

Natural Moisture: 6.3%

Location: N 58,025.9 E 35,942.1
Sample Number: NFSF-15-R **Depth:** 9,992' **Date:** 10/21/2019

NewFields

Client: CC&V Gold Mining Company
Project: VLF Phase 2B

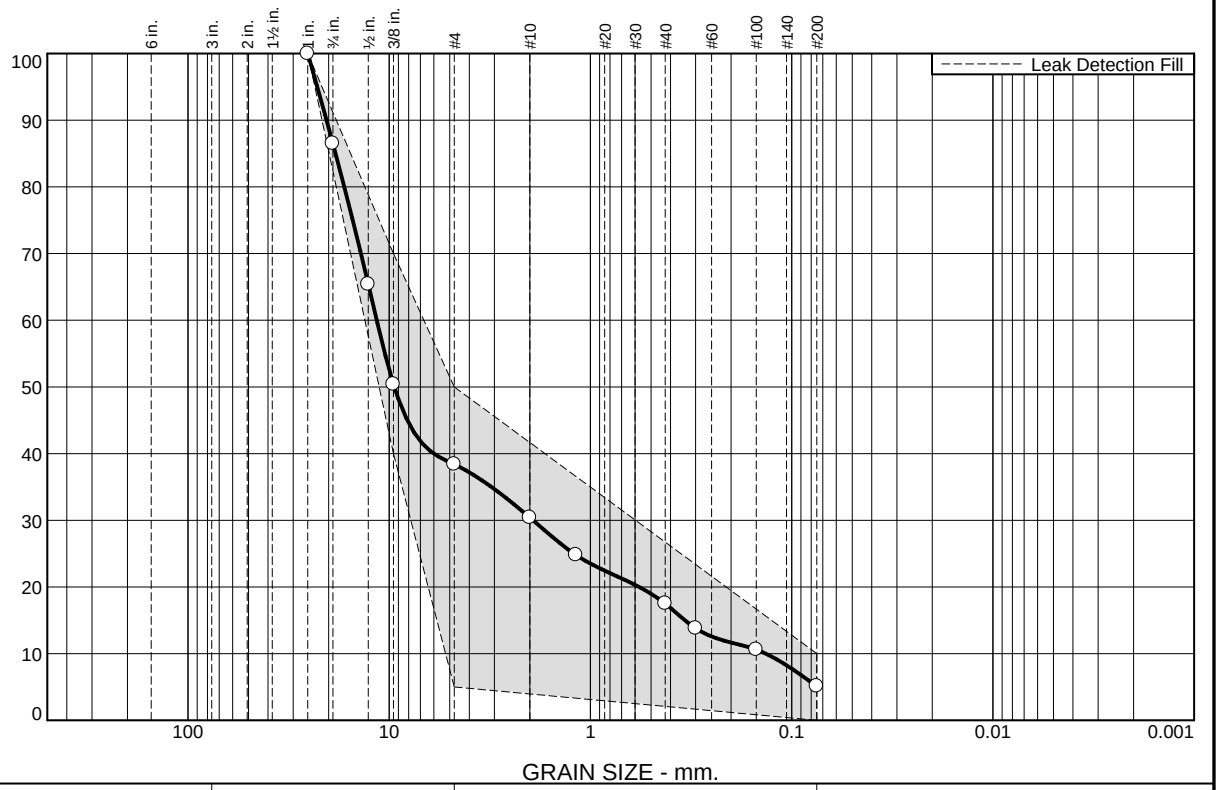
Project No: 475.0106.032 **Figure** NFSF-15-R

Tested By: TW **Checked By:** TW

APPENDIX H.2 – LEAK DETECTION FILL LABORATORY TEST RESULTS

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	13.5	48.1	8.0	12.9	12.4	5.1	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1	100.0	100.0	
.75	86.5		
.5	65.4		
.375	50.4	40.0 - 70.0	
#4	38.4	5.0 - 50.0	
#10	30.4		
#16	24.8		
#40	17.5		
#50	13.8		
#100	10.6		
#200	5.1	0.0 - 10.0	

* Leak Detection Fill

Material Description

Grayish brown well-graded gravel with silt and sand

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D_{90}= 20.4921 D_{85}= 18.4731 D_{60}= 11.5310
D_{50}= 9.4341 D_{30}= 1.9304 D_{15}= 0.3387
D_{10}= 0.1346 C_u= 85.64 C_c= 2.40

Classification

USCS= GW-GM AASHTO= A-1-a

Remarks

Location: N 57,297 E 36,593
Sample Number: NFLDF-5-R **Depth:** FG **Date:** 04/23/2020

NewFields

Client: CC&V Gold Mining Company
Project: VLF Phase 2B

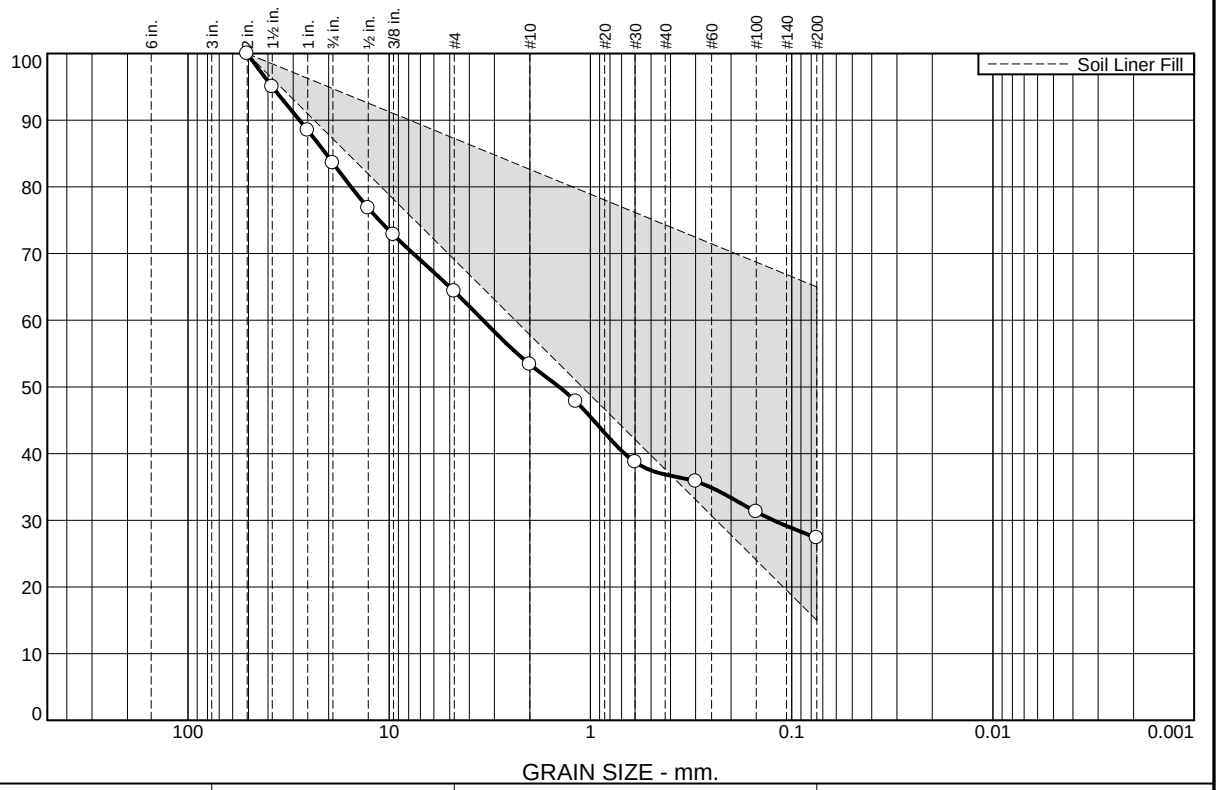
Project No: 475.0106.032 **Figure** NFLDF-5-R

Tested By: TW **Checked By:** TW

APPENDIX H.3 – SOIL LINER FILL LABORATORY TEST RESULTS

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	16.4	19.3	10.9	16.5	9.5	27.4	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2"	100.0	100.0	
1.5"	95.0		
1"	88.5		
3/4"	83.6		
1/2"	76.8		
3/8"	72.8		
#4	64.3		
#10	53.4		
#16	47.8		
#30	38.7		
#50	35.8		
#100	31.3		
#200	27.4	15.0 - 65.0	

* Soil Liner Fill

Material Description

Brown clayey sand with gravel

Atterberg Limits

PL= 14 LL= 43 PI= 29

Coefficients

D_{90}= 27.8955 D_{85}= 20.6583 D_{60}= 3.4158
D_{50}= 1.4303 D_{30}= 0.1230 D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= SC AASHTO= A-2-7(2)

Remarks

Natural Moisture: 12.4%

Location: Tezak Processing Plant
Sample Number: NFSLF-73-C **Depth:** Stockpile **Date:** 05/08/19

NewFields

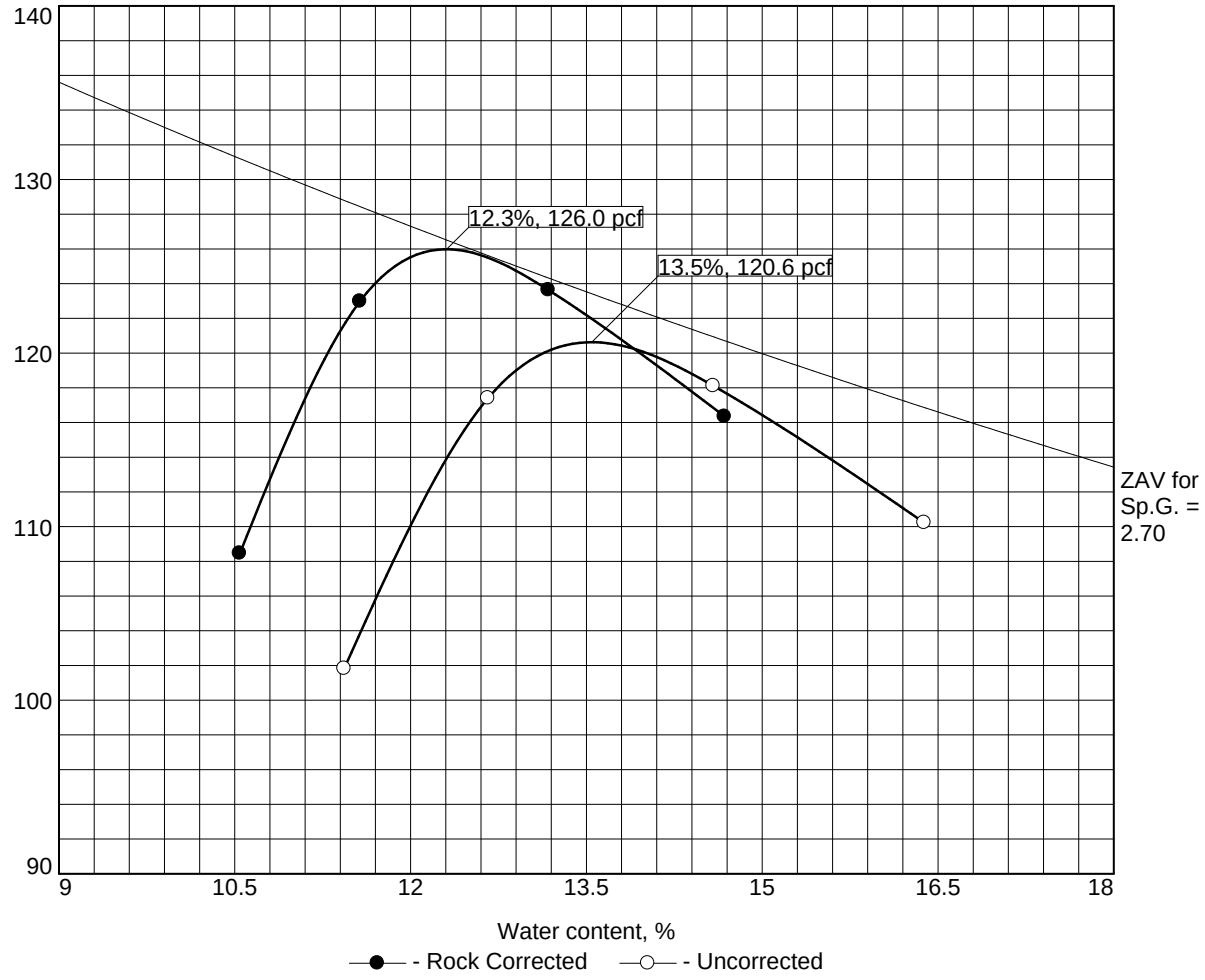
Client: CC&V Gold Mining Company
Project: Squaw Gulch VLF Phase 2

Project No: 475.0106.032 **Figure** NFSLF-73-C

Tested By: JB **Checked By:** TW

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

COMPACTION TEST REPORT



Test specification: ASTM D 698-12 Method C Standard
ASTM D4718-15 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/4 in.	% < No.200
	USCS	AASHTO						
Stockpile	SC	A-2-7(2)		2.60	43	29	16.4	27.4

ROCK CORRECTED TEST RESULTS	UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 126.0 pcf	120.6 pcf	Brown clayey sand with gravel
Optimum moisture = 12.3 %	13.5 %	

Project No. 475.0106.032 **Client:** CC&V Gold Mining Company
Project: Squaw Gulch VLF Phase 2

○**Location:** Tezak Processing Plant **Sample Number:** NFSLF-73-C

NewFields

Remarks:

Figure NFSLF-73-C

Tested By: JB **Checked By:** TW

NewFields

Flexible Wall Hydraulic Conductivity
ASTM D5084

Client:	Cripple Crrek and Victor Gold Mines	Lab Sample No.:	NFSLF-73-C
Project:	Squaw VLF PIIA		
Project No.:	475.0106.032	Location:	Tezak Processing Plant
Phase:	2A	Elevation/Depth:	Stockpile
Requested By:	EN	Tested By:	TW
Test Started:	6/20/2019	Checked By:	TW
Test Finished:	7/8/2019	Sample Description:	Brown clayey sand with gravel

Test Boundary Conditions	
Type of Permeant	De-aired Bottled
Magnitude of Back pressure (psi)	40
Saturated (Y/N):	Yes
Stage 1: Effective Stress (psi)	20
Sample Type	Remolded
Burrete Area (cm^2)	0.877

Test Specimen Data	Initial	During k Testing	Final
Wet Soil + Tare (g)	642		746.10
Dry Soil + Tare (g)	571.83		682.50
Tare (g)	0.00		221.90
Wt. of Water (g)	70.17		63.60
Dry Soil (g)	571.83		460.60
Moisture Content (%)	12.3		13.8
Sample Volume (ft^3)	0.01043	0.01040	
Dry Density (pcf)	120.8	121.0	
Wet Density (pcf)	135.7	137.8	
Saturation (%)	88.4	100.0	
Percent Compaction	95.9	96.0	
Height (in)	2.999	2.997	
Diameter (in)	2.766	2.764	
Area (in^2)	6.010	6.002	
Est. Moisture Content after Consolidation (%)		13.8%	
Est. Void Ratio after Consolidation		0.366	
Specific Gravity*	2.65		

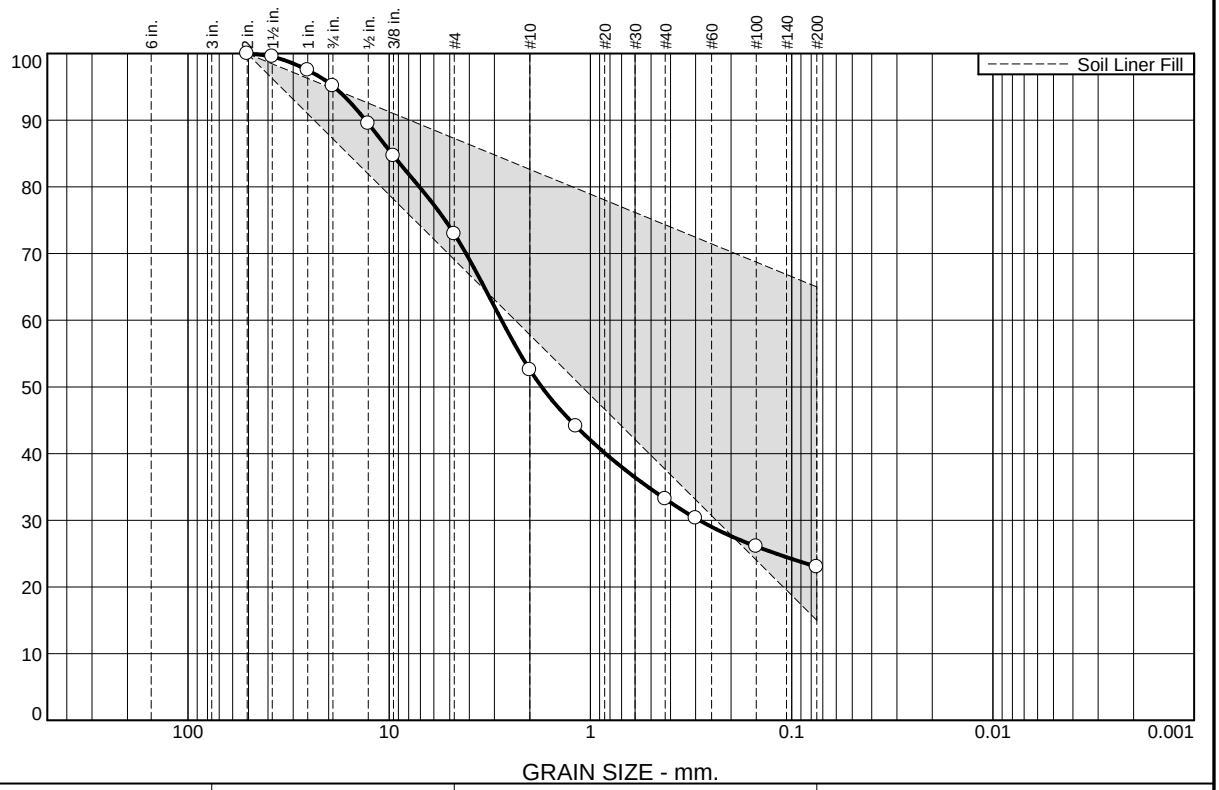
*Specific gravity is assumed

Maximum Dry Density:
ASTM D 698

Maximum Dry Density (pcf):	126
Initial Remolded Dry Density (pcf):	120.8
Initial Percent Compaction:	96%
Initial Void Ratio:	0.369
Optimum Moisture Content(%):	12.3
Initial Water Content (%):	12.3
Confining Pressure (psi):	20.0
Hydraulic Conductivity, k_{20} (cm/s):	**5.9E-07**
Gradient Range (h/L):	4.8 4.8

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	4.9	22.1	20.4	19.4	10.2	23.0	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2"	100.0	100.0	
1.5"	99.5		
1"	97.5		
3/4"	95.1		
1/2"	89.5		
3/8"	84.7		
#4	73.0		
#10	52.6		
#16	44.1		
#40	33.2		
#50	30.3		
#100	26.1		
#200	23.0	15.0 - 65.0	

* Soil Liner Fill

Material Description

Brown clayey sand with gravel

Atterberg Limits

PL= 15 LL= 37 PI= 22

Coefficients

D_{90}= 13.0961 D_{85}= 9.7145 D_{60}= 2.7639
D_{50}= 1.7476 D_{30}= 0.2881 D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= SC AASHTO= A-2-6(1)

Remarks

Natural Moisture: 11.7%

Location: Tezak Processing Plant
Sample Number: NFSLF-76-C **Depth:** Stockpile **Date:** 05/20/19

NewFields

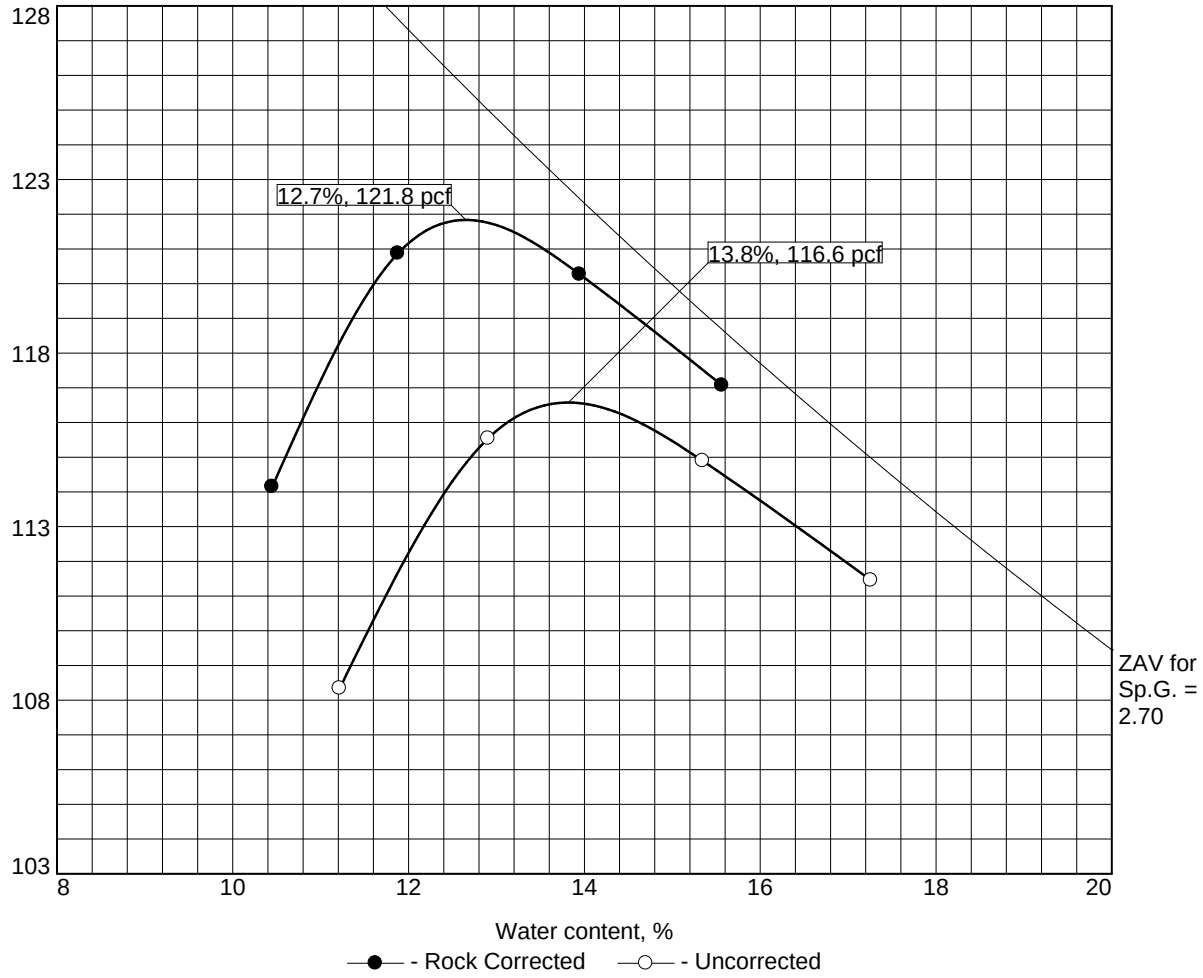
Client: CC&V Gold Mining Company
Project: Squaw Gulch VLF Phase 2

Project No: 475.0106.032 **Figure** NFSLF-76-C

Tested By: JB **Checked By:** TW

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

COMPACTION TEST REPORT



Test specification: ASTM D 698-12 Method B Standard
ASTM D4718-15 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/8 in.	% < No.200
	USCS	AASHTO						
Stockpile	SC	A-2-6(1)		2.6	37	22	15.3	23.0

ROCK CORRECTED TEST RESULTS	UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 121.8 pcf	116.6 pcf	Brown clayey sand with gravel
Optimum moisture = 12.7 %	13.8 %	

Project No. 475.0106.032 **Client:** CC&V Gold Mining Company
Project: Squaw Gulch VLF Phase 2

○**Location:** Tezak Processing Plant **Sample Number:** NFSLF-76-C

NewFields

Remarks:

Figure NFSLF-76-C

Tested By: TS **Checked By:** TW

NewFields

Flexible Wall Hydraulic Conductivity
ASTM D5084

Client:	Cripple Crrek and Victor Gold Mines	Lab Sample No.:	NFSLF-76-C
Project:	Squaw VLF P2A		
Project No.:	475.0106.032	Location:	Tezak Processing Plant
Phase:	2A	Elevation/Depth:	Stockpile
Requested By:	EN	Tested By:	TW
Test Started:	7/15/2019	Checked By:	TW
Test Finished:	7/18/2019	Sample Description:	Brown clayey sand with gravel

Test Boundary Conditions	
Type of Permeant	De-aired Bottled
Magnitude of Back pressure (psi)	50
Saturated (Y/N):	Yes
Stage 1: Effective Stress (psi)	5
Sample Type	Remolded
Burrete Area (cm^2)	0.877

Test Specimen Data	Initial	During k Testing	Final
Wet Soil + Tare (g)	636.2		789.20
Dry Soil + Tare (g)	564.27		705.40
Tare (g)	0.00		132.00
Wt. of Water (g)	71.93		83.80
Dry Soil (g)	564.27		573.40
Moisture Content (%)	12.7		14.6
Sample Volume (ft^3)	0.01067	0.01064	
Dry Density (pcf)	116.6	116.7	
Wet Density (pcf)	131.4	135.2	
Saturation (%)	80.4	100.0	
Percent Compaction	95.7	95.8	
Height (in)	3.028	3.026	
Diameter (in)	2.785	2.783	
Area (in^2)	6.092	6.084	
Est. Moisture Content after Consolidation (%)		15.7%	
Est. Void Ratio after Consolidation		0.416	
Specific Gravity*	2.65		

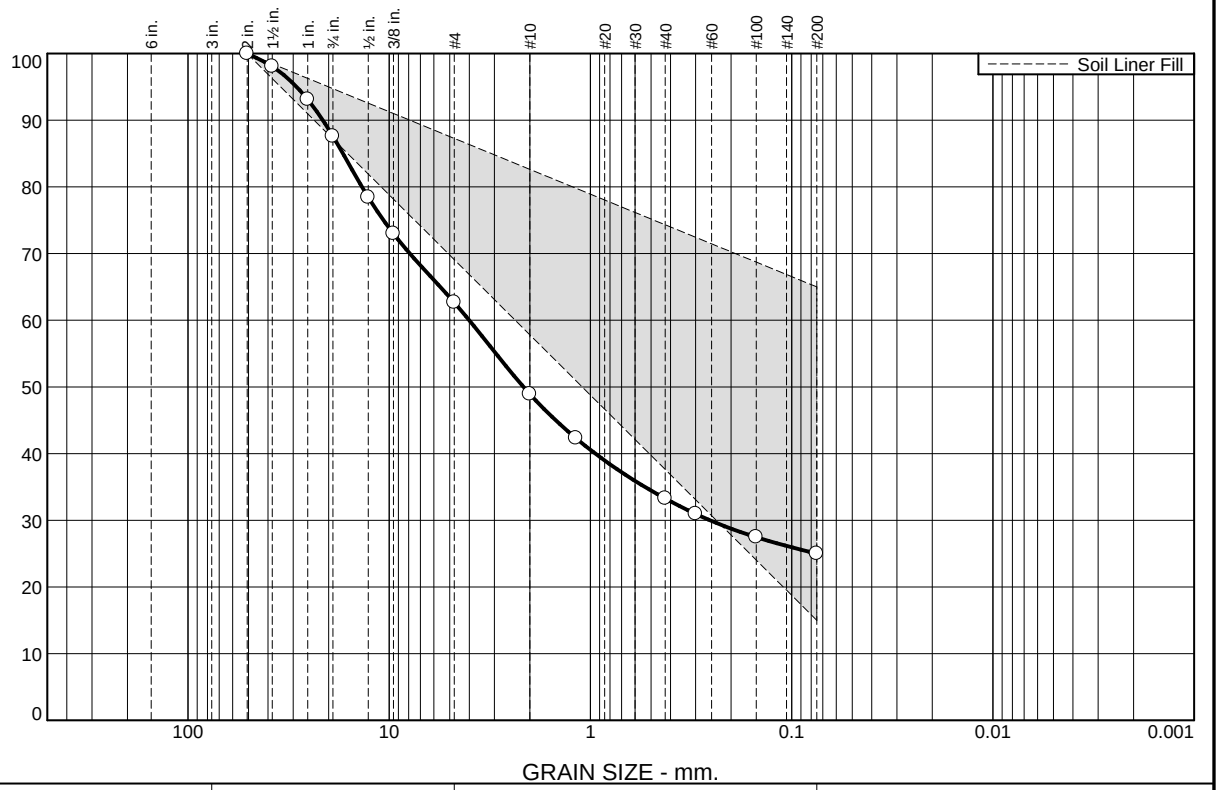
*Specific gravity is assumed

Maximum Dry Density:
ASTM D 698

Maximum Dry Density (pcf):	121.8
Initial Remolded Dry Density (pcf):	116.6
Initial Percent Compaction:	96%
Initial Void Ratio:	0.418
Optimum Moisture Content(%):	12.7
Initial Water Content (%):	12.7
Confining Pressure (psi):	5.0
Hydraulic Conductivity, k_{20} (cm/s):	**3.2E-08**
Gradient Range (h/L):	1.2 2.2

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	12.4	24.9	13.8	15.6	8.3	25.0	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2"	100.0	100.0	
1.5"	98.1		
1"	93.1		
0.75"	87.6		
0.5"	78.4		
0.375"	73.0		
#4	62.7		
#10	48.9		
#16	42.3		
#40	33.3		
#50	31.0		
#100	27.5		
#200	25.0	15.0 - 65.0	

* Soil Liner Fill

Material Description

Brown clayey sand with gravel

Atterberg Limits

PL= 13 LL= 46 PI= 33

Coefficients

D_{90}= 21.3884 D_{85}= 16.9645 D_{60}= 4.0043
D_{50}= 2.1508 D_{30}= 0.2546 D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= SC AASHTO= A-2-7(2)

Remarks

Natural Moisture: 10.4%

Location: Tezak Processing Plant
Sample Number: NFSLF-79-C **Depth:** Stockpile **Date:** 06/07/19

NewFields

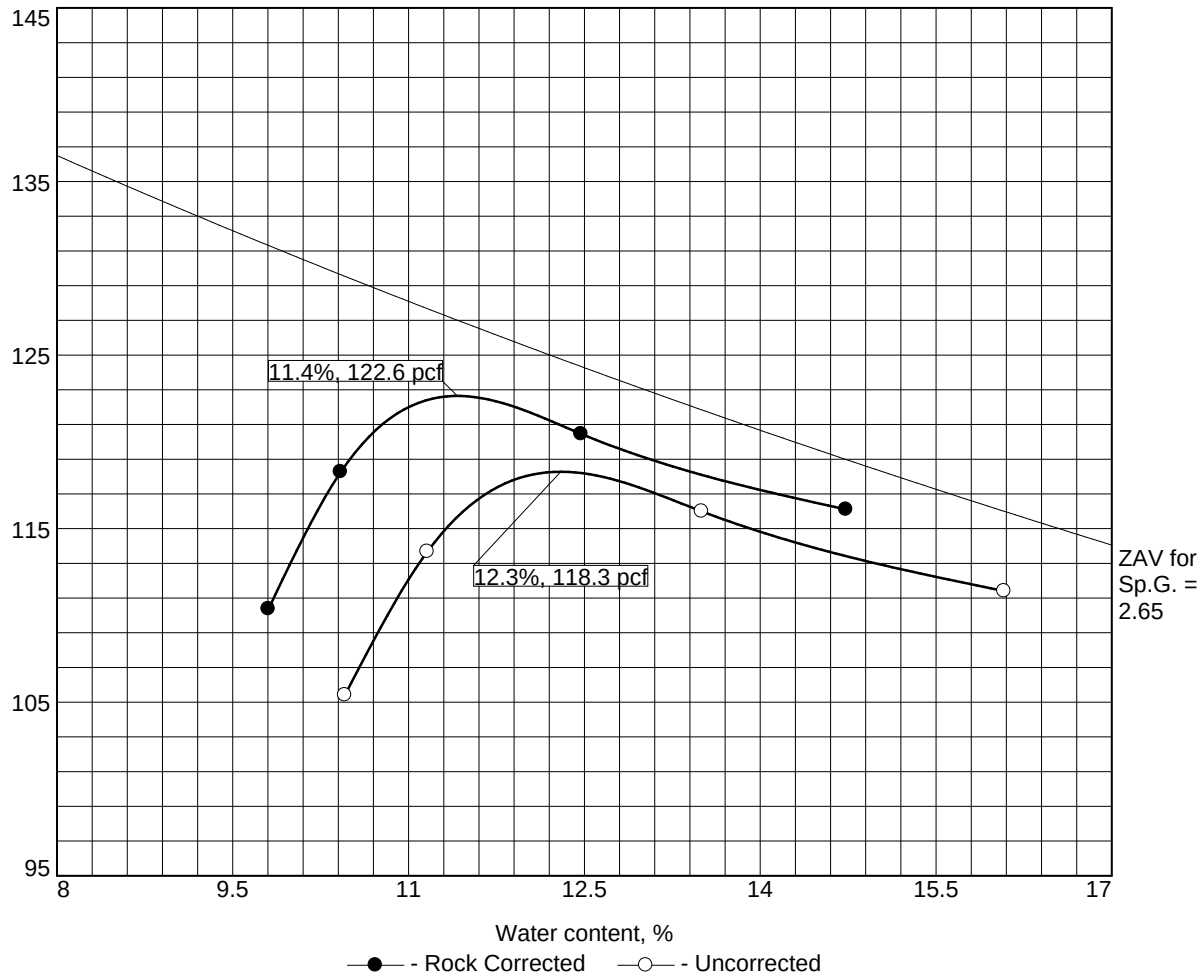
Client: CC&V Gold Mining Company
Project: Squaw Gulch VLF Phase 2

Project No: 475.0106.032 **Figure** NFSLF-79-C

Tested By: JB **Checked By:** TW

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

COMPACTION TEST REPORT



Test specification: ASTM D 1557-12 Method C Modified
ASTM D4718-15 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/4 in.	% < No.200
	USCS	AASHTO						
Stockpile	SC	A-2-7(2)		2.65	46	33	12.4	25.0

ROCK CORRECTED TEST RESULTS	UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 122.6 pcf	118.3 pcf	Brown clayey sand with gravel
Optimum moisture = 11.4 %	12.3 %	

Project No. 475.0106.032 **Client:** CC&V Gold Mining Company
Project: Squaw Gulch VLF Phase 2

○**Location:** Tezak Processing Plant **Sample Number:** NFSLF-79-C

NewFields

Remarks:

Figure NFSLF-79-C

Tested By: JB **Checked By:** TW

NewFields

Flexible Wall Hydraulic Conductivity
ASTM D5084

Client:	Cripple Crrek and Victor Gold Mines	Lab Sample No.:	NFSLF-79-C
Project:	Squaw VLF PIIA		
Project No.:	475.0106.032	Location:	Tezak Processing Plant
Phase:	1	Elevation/Depth:	Stockpile
Requested By:	EN	Tested By:	TW
Test Started:	7/15/2019	Checked By:	TW
Test Finished:	7/18/2019	Sample Description:	Brown clayey sand with gravel

Test Boundary Conditions	
Type of Permeant	De-aired Bottled
Magnitude of Back pressure (psi)	45
Saturated (Y/N):	Yes
Stage 1: Effective Stress (psi)	5
Sample Type	Remolded
Burrete Area (cm^2)	0.263

Test Specimen Data	Initial	During k Testing	Final
Wet Soil + Tare (g)	623.8		726.50
Dry Soil + Tare (g)	559.98		655.00
Tare (g)	0.00		125.90
Wt. of Water (g)	63.82		71.50
Dry Soil (g)	559.98		529.10
Moisture Content (%)	11.4		13.5
Sample Volume (ft^3)	0.01055	0.01052	
Dry Density (pcf)	117.0	117.1	
Wet Density (pcf)	130.4	135.4	
Saturation (%)	73.2	100.0	
Percent Compaction	95.5	95.5	
Height (in)	3.017	3.015	
Diameter (in)	2.774	2.772	
Area (in^2)	6.042	6.037	
Est. Moisture Content after Consolidation (%)		15.5%	
Est. Void Ratio after Consolidation		0.412	
Specific Gravity*	2.65		

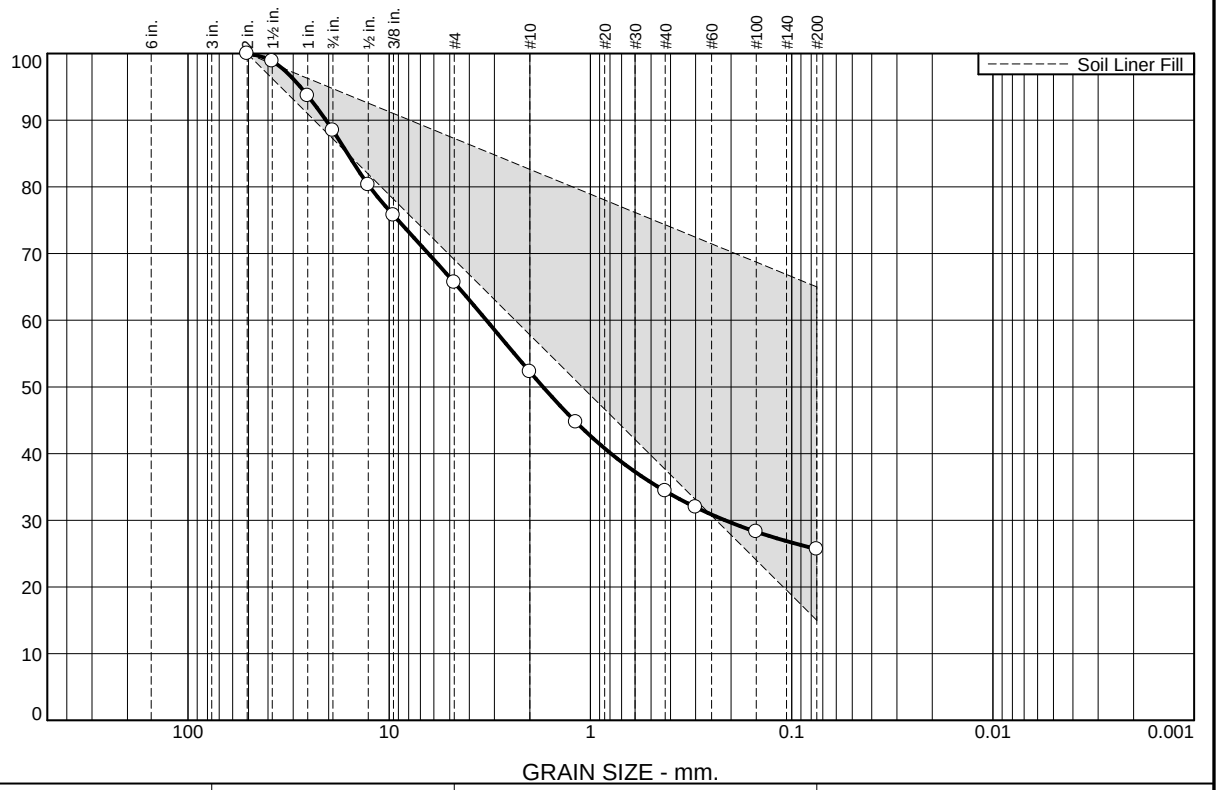
*Specific gravity is assumed

Maximum Dry Density:
ASTM D 698

Maximum Dry Density (pcf):	122.6
Initial Remolded Dry Density (pcf):	117.0
Initial Percent Compaction:	95%
Initial Void Ratio:	0.413
Optimum Moisture Content(%):	11.4
Initial Water Content (%):	11.4
Confining Pressure (psi):	5.0
Hydraulic Conductivity, k_{20} (cm/s):	**6.7E-08**
Gradient Range (h/L):	3.0 3.5

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	11.5	22.8	13.4	17.9	8.7	25.7	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2"	100.0	100.0	
1.5"	98.9		
1"	93.7		
0.75"	88.5		
0.5"	80.3		
0.375"	75.8		
#4	65.7		
#10	52.3		
#16	44.7		
#40	34.4		
#50	32.0		
#100	28.3		
#200	25.7	15.0 - 65.0	

* Soil Liner Fill

Material Description

Dark brown clayey sand with gravel

Atterberg Limits

PL= 18 LL= 43 PI= 25

Coefficients

D_{90}= 20.6203 D_{85}= 16.0892 D_{60}= 3.2880
D_{50}= 1.7203 D_{30}= 0.2143 D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= SC AASHTO= A-2-7(2)

Remarks

Natural Moisture: 10.7%

Location: Tezak Processing Plant
Sample Number: NFSLF-80-C **Depth:** Stockpile **Date:** 06/10/19

NewFields

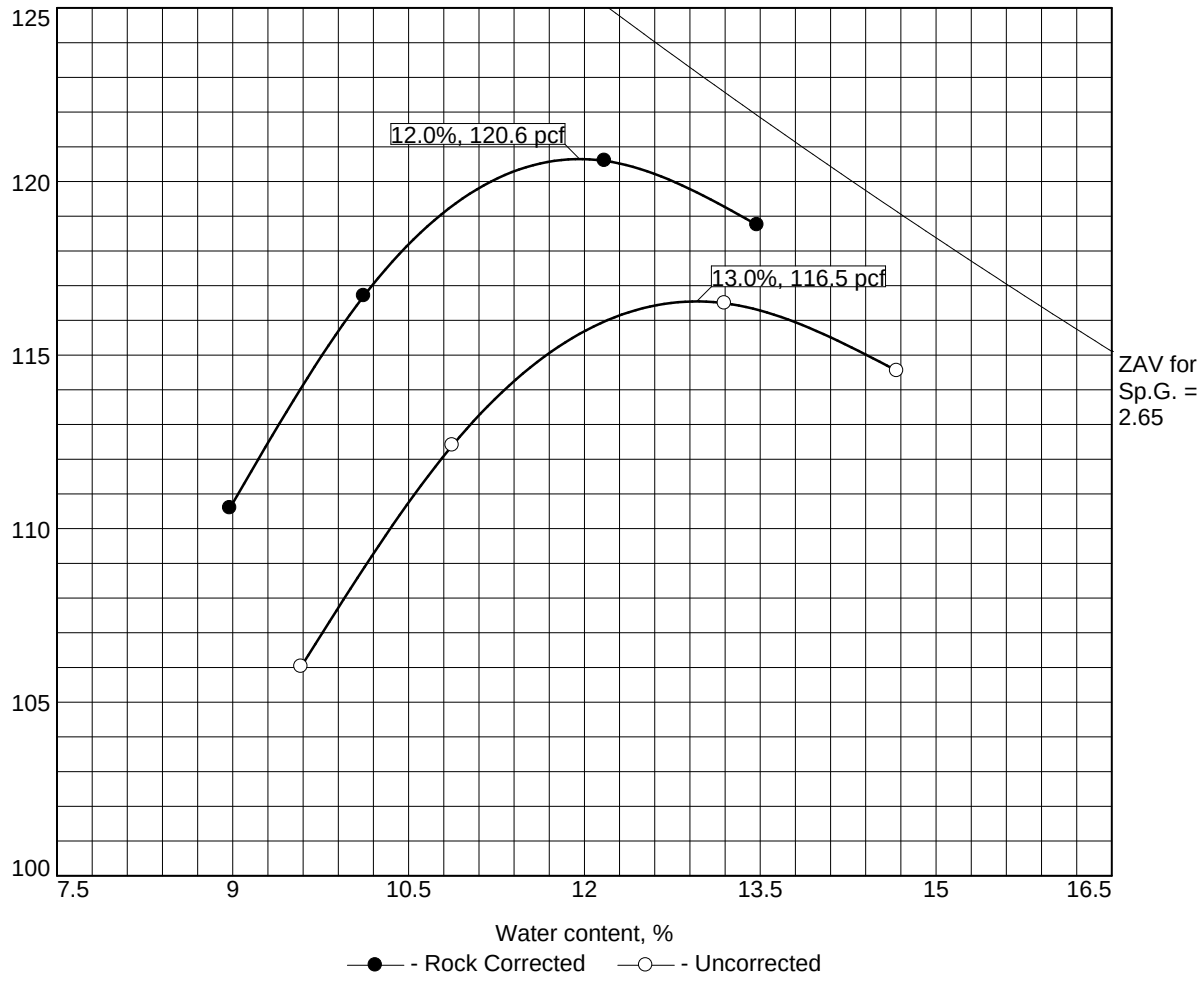
Client: CC&V Gold Mining Company
Project: Squaw Gulch VLF Phase 2

Project No: 475.0106.032 **Figure** NFSLF-80-C

Tested By: JB **Checked By:** TW

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

COMPACTION TEST REPORT



Test specification: ASTM D 1557-12 Method C Modified
ASTM D4718-15 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/4 in.	% < No.200
	USCS	AASHTO						
Stockpile	SC	A-2-7(2)		2.65	43	25	11.5	25.7

ROCK CORRECTED TEST RESULTS	UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 120.6 pcf	116.5 pcf	Dark brown clayey sand with gravel
Optimum moisture = 12.0 %	13.0 %	

Project No. 475.0106.032 **Client:** CC&V Gold Mining Company
Project: Squaw Gulch VLF Phase 2

○**Location:** Tezak Processing Plant **Sample Number:** NFSLF-80-C

NewFields

Remarks:

Figure NFSLF-80-C

Tested By: JB **Checked By:** TW

NewFields

Flexible Wall Hydraulic Conductivity
ASTM D5084

Client:	Cripple Crrek and Victor Gold Mines	Lab Sample No.:	NFSLF-80-C
Project:	Squaw VLF PIIA		
Project No.:	475.0106.032	Location:	Tezak Processing Plant
Phase:	2A	Elevation/Depth:	Stockpile
Requested By:	EN	Tested By:	TW
Test Started:	7/15/2019	Checked By:	TW
Test Finished:	7/18/2019	Sample Description:	Brown clayey sand with gravel

Test Boundary Conditions	
Type of Permeant	De-aired Bottled
Magnitude of Back pressure (psi)	40
Saturated (Y/N):	Yes
Stage 1: Effective Stress (psi)	5
Sample Type	Remolded
Burrete Area (cm^2)	0.877

Test Specimen Data	Initial	During k Testing	Final
Wet Soil + Tare (g)	627.3		873.91
Dry Soil + Tare (g)	551.82		785.34
Tare (g)	0.00		235.58
Wt. of Water (g)	75.48		88.57
Dry Soil (g)	551.82		549.76
Moisture Content (%)	13.7		16.1
Sample Volume (ft^3)	0.01059	0.01055	
Dry Density (pcf)	114.6	114.7	
Wet Density (pcf)	130.6	134.7	
Saturation (%)	80.4	100.0	
Percent Compaction	95.0	95.1	
Height (in)	3.025	3.023	
Diameter (in)	2.775	2.773	
Area (in^2)	6.047	6.039	
Est. Moisture Content after Consolidation (%)		17.3%	
Est. Void Ratio after Consolidation		0.468	
Specific Gravity*	2.70		

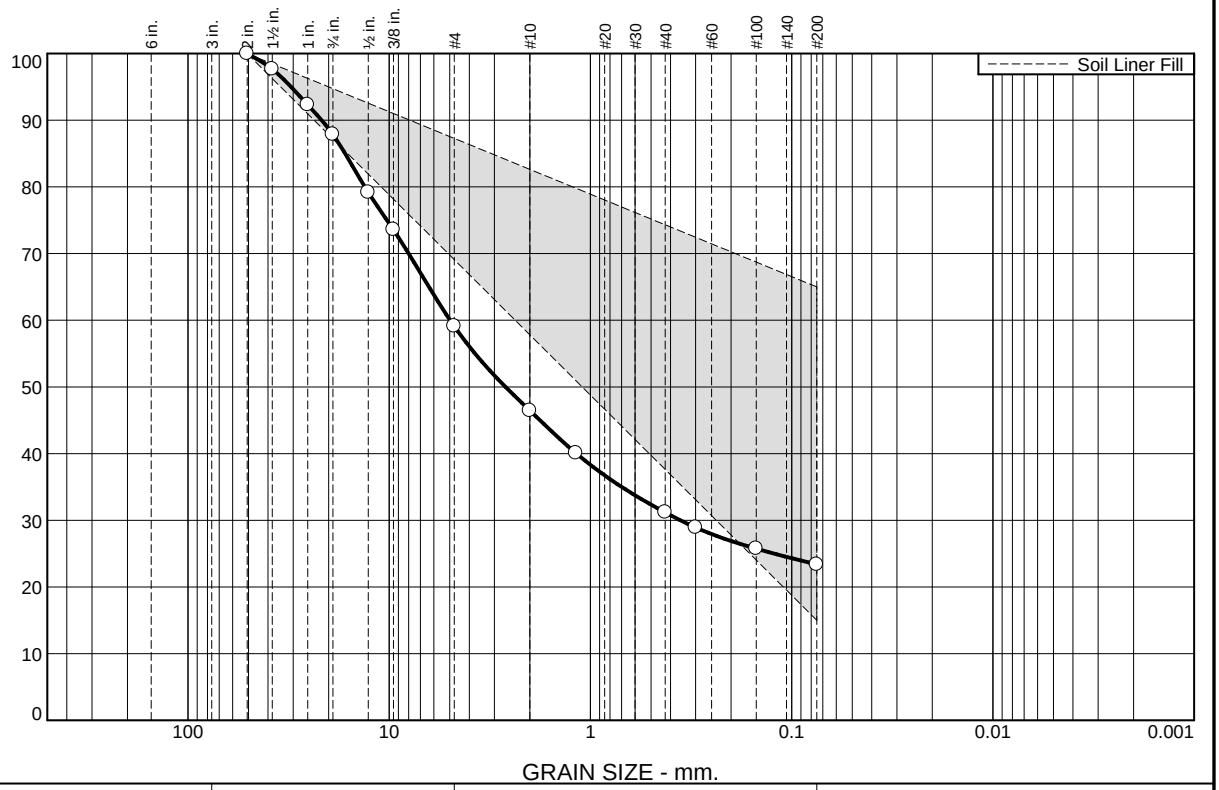
*Specific gravity is assumed

Maximum Dry Density:
ASTM D 1557

Maximum Dry Density (pcf):	120.6
Initial Remolded Dry Density (pcf):	114.6
Initial Percent Compaction:	95%
Initial Void Ratio:	0.470
Optimum Moisture Content(%):	12.0
Initial Water Content (%):	13.7
Confining Pressure (psi):	5.0
Hydraulic Conductivity, k_{20} (cm/s):	**5.2E-08**
Gradient Range (h/L):	3.7 3.7

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	12.1	28.8	12.7	15.2	7.8	23.4	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2"	100.0	100.0	
1.5"	97.7		
1"	92.3		
0.75"	87.9		
0.5"	79.2		
0.375"	73.6		
#4	59.1		
#10	46.4		
#16	40.1		
#40	31.2		
#50	28.9		
#100	25.7		
#200	23.4	15.0 - 65.0	

* Soil Liner Fill

Material Description

Dark brown clayey gravel with sand

Atterberg Limits

PL= 11 LL= 39 PI= 28

Coefficients

D_{90}= 21.6707 D_{85}= 16.5460 D_{60}= 4.9798
D_{50}= 2.6415 D_{30}= 0.3568 D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= GC AASHTO= A-2-6(1)

Remarks

Natural Moisture: 10.9%

Location: Tezak Processing Plant
Sample Number: NFSLF-81-C **Depth:** Stockpile **Date:** 06/13/2019

NewFields

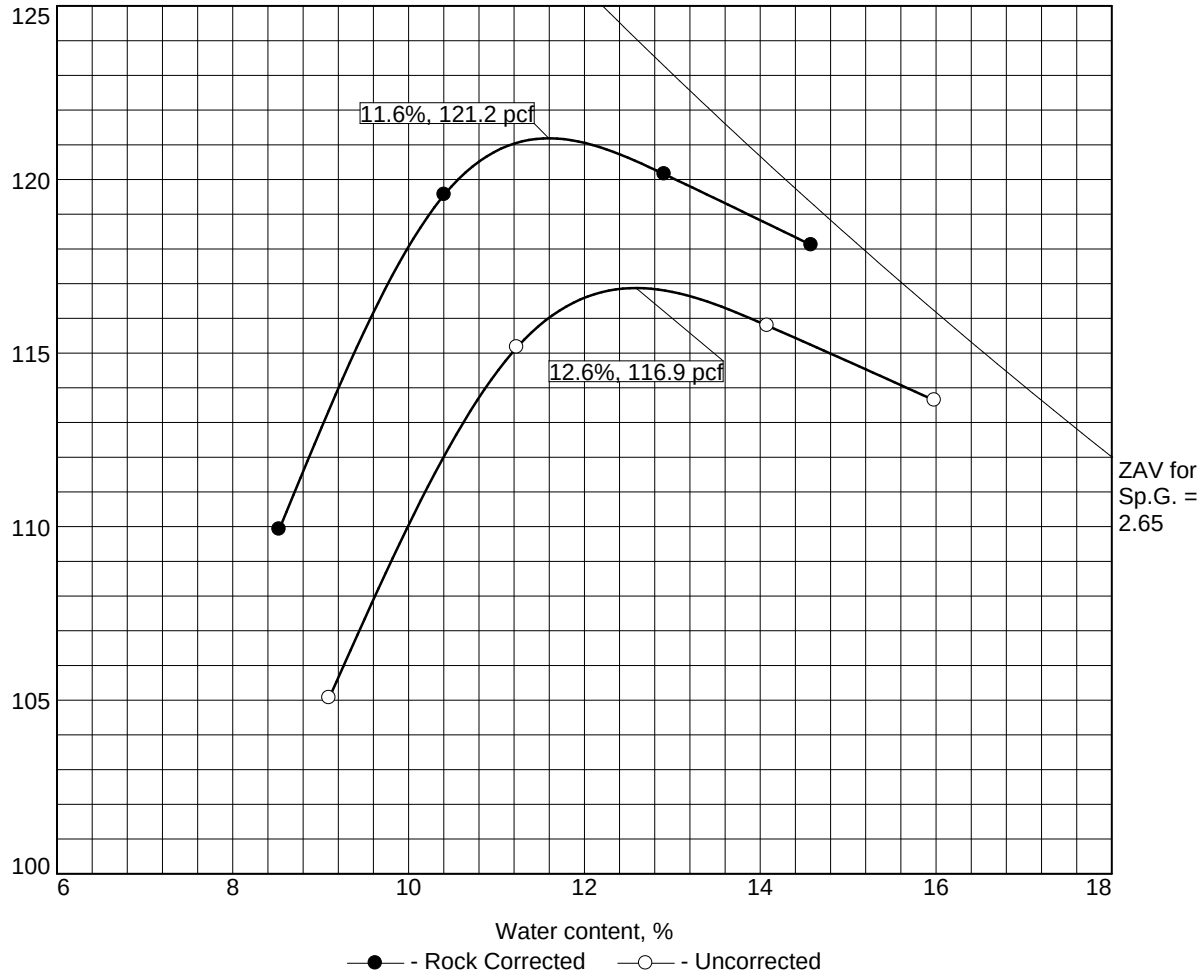
Client: CC&V Gold Mining Company
Project: Squaw Gulch VLF Phase 2

Project No: 475.0106.032 **Figure** NFSLF-81-C

Tested By: JB **Checked By:** TW

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

COMPACTION TEST REPORT



Test specification: ASTM D 1557-12 Method C Modified
ASTM D4718-15 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/4 in.	% < No.200
	USCS	AASHTO						
Stockpile	GC	A-2-6(1)		2.65	39	28	12.1	23.4

ROCK CORRECTED TEST RESULTS	UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 121.2 pcf	116.9 pcf	Dark brown clayey gravel with sand
Optimum moisture = 11.6 %	12.6 %	

Project No. 475.0106.032 **Client:** CC&V Gold Mining Company
Project: Squaw Gulch VLF Phase 2

○**Location:** Tezak Processing Plant **Sample Number:** NFSLF-81-C

NewFields

Remarks:

Figure NFSLF-81-C

Tested By: JB **Checked By:** TW

NewFields

Flexible Wall Hydraulic Conductivity
ASTM D5084

Client:	Cripple Crrek and Victor Gold Mines	Lab Sample No.:	NFSLF-81-C
Project:	Squaw VLF PIIA		
Project No.:	475.0106.032	Location:	Tezak Processing Plant
Phase:	1	Elevation/Depth:	Stockpile
Requested By:	EN	Tested By:	TW/KE
Test Started:	7/15/2019	Checked By:	TW
Test Finished:	7/18/2019	Sample Description:	Dark brown clayey gravel with sand

Test Boundary Conditions	
Type of Permeant	De-aired Bottled
Magnitude of Back pressure (psi)	40
Saturated (Y/N):	Yes
Stage 1: Effective Stress (psi)	5
Sample Type	Remolded
Burrete Area (cm^2)	0.877

Test Specimen Data	Initial	During k Testing	Final
Wet Soil + Tare (g)	617.6		721.00
Dry Soil + Tare (g)	554.83		645.20
Tare (g)	0.00		119.50
Wt. of Water (g)	62.77		75.80
Dry Soil (g)	554.83		525.70
Moisture Content (%)	11.3		14.4
Sample Volume (ft^3)	0.01055	0.01052	
Dry Density (pcf)	115.7	115.7	
Wet Density (pcf)	129.1	134.5	
Saturation (%)	71.6	100.0	
Percent Compaction	95.4	95.5	
Height (in)	3.017	3.016	
Diameter (in)	2.773	2.772	
Area (in^2)	6.041	6.037	
Est. Moisture Content after Consolidation (%)		16.2%	
Est. Void Ratio after Consolidation		0.429	
Specific Gravity*	2.65		

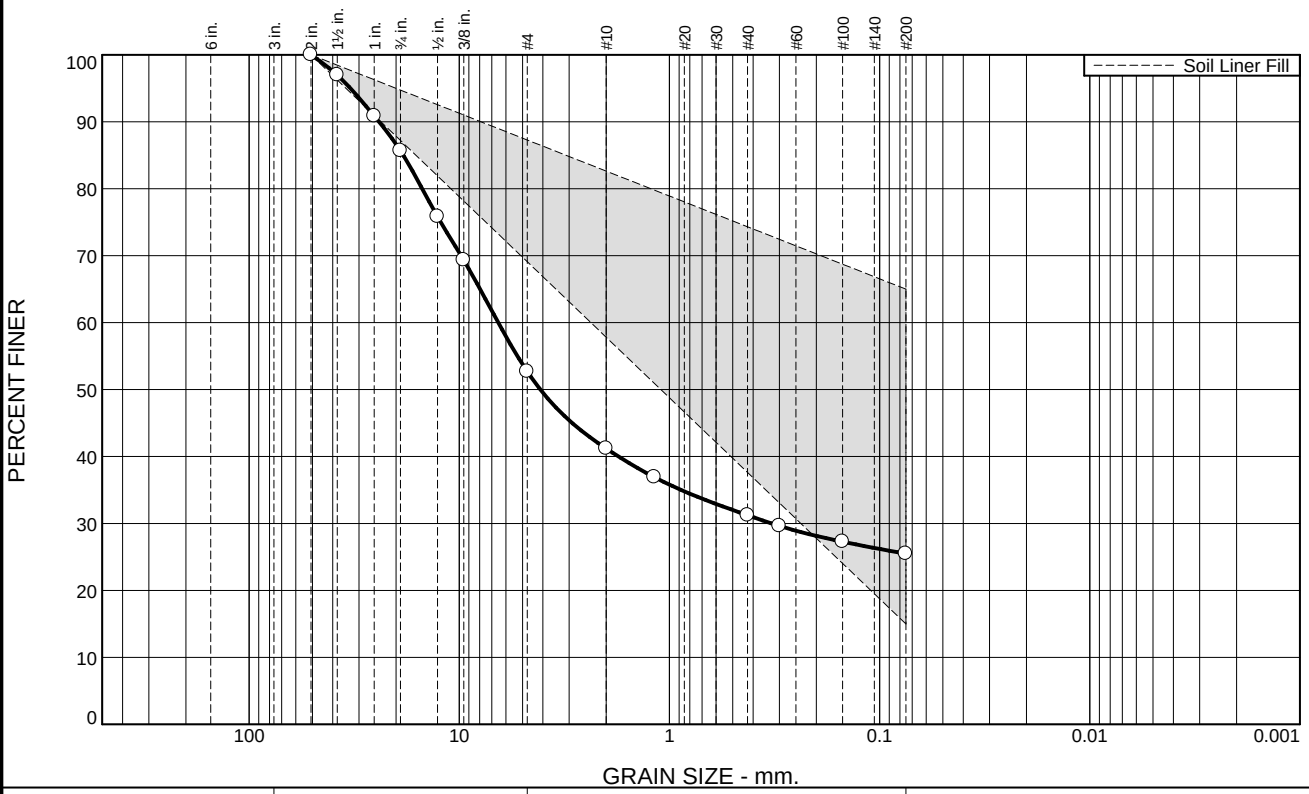
*Specific gravity is assumed

Maximum Dry Density:
ASTM D 698

Maximum Dry Density (pcf):	121.2
Initial Remolded Dry Density (pcf):	115.7
Initial Percent Compaction:	95%
Initial Void Ratio:	0.429
Optimum Moisture Content(%):	11.6
Initial Water Content (%):	11.3
Confining Pressure (psi):	5.0
Hydraulic Conductivity, k_{20} (cm/s):	**5.4E-07**
Gradient Range (h/L):	4.7 4.7

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	14.3	33.0	11.5	10.0	5.7	25.5	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2.0"	100.0	100.0	
1.5"	97.0		
1"	90.9		
3/4"	85.7		
1/2"	75.8		
3/8"	69.3		
#4	52.7		
#10	41.2		
#16	36.9		
#40	31.2		
#50	29.6		
#100	27.3		
#200	25.5	15.0 - 65.0	

* Soil Liner Fill

Material Description

Brown clayey gravel with sand

Atterberg Limits

PL= 13 LL= 46 PI= 33

Coefficients

D_{90}= 24.1096 D_{85}= 18.4662 D_{60}= 6.5213
D_{50}= 4.1145 D_{30}= 0.3260 D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= GC AASHTO= A-2-7(3)

Remarks

Natural Moisture: 8.6%

Location: Tezak Processing Plant
Sample Number: NFSLF-88-C **Depth:** Stockpile **Date:** 06/28/19

NewFields

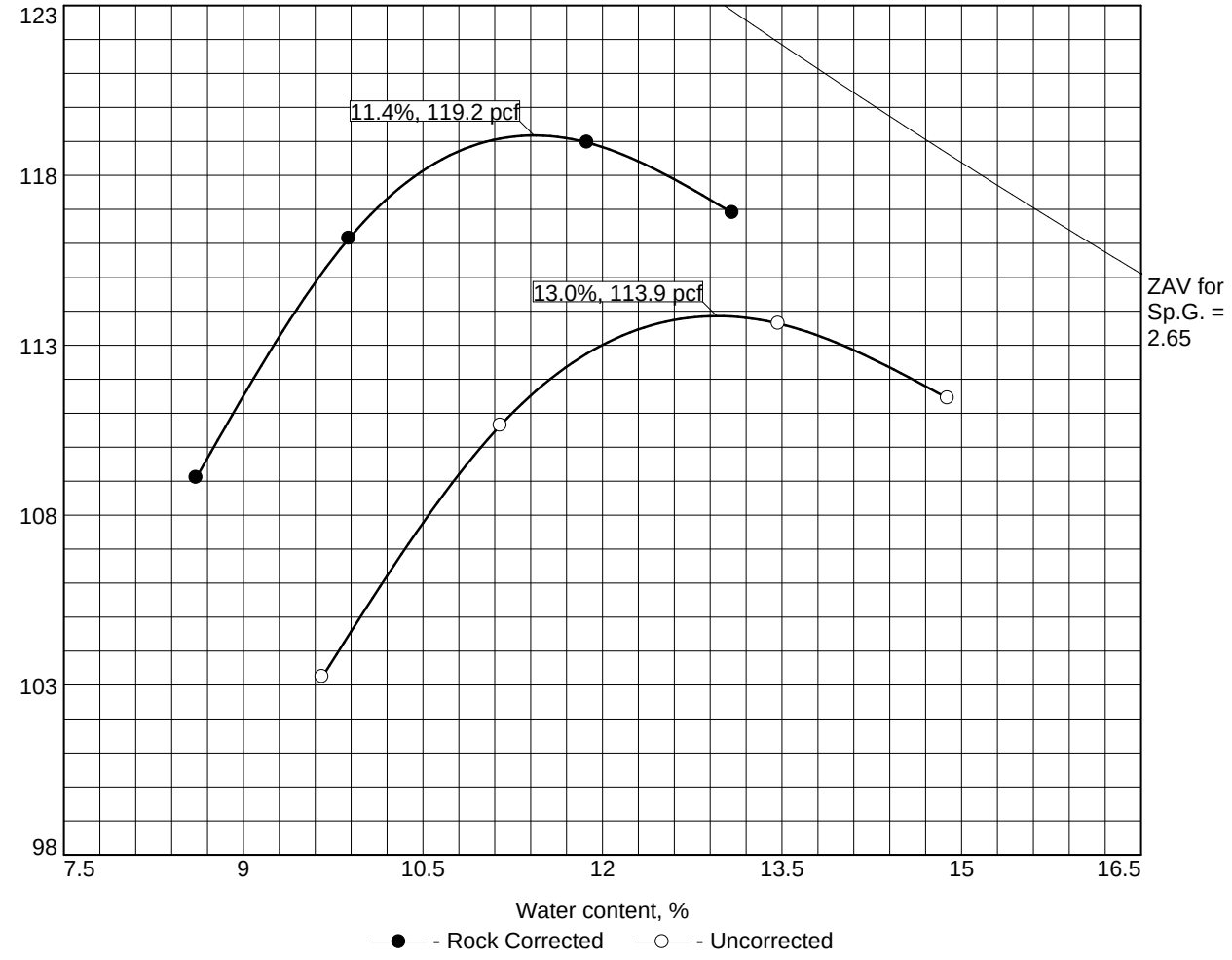
Client: CC&V Gold Mining Company
Project: Squaw Gulch VLF Phase 2

Project No: 475.0106.032 **Figure** NFSLF-88-C

Tested By: JB **Checked By:** TW

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

COMPACTION TEST REPORT



Test specification: ASTM D 698-12 Method C Standard
ASTM D4718-15 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/4 in.	% < No.200
	USCS	AASHTO						
Stockpile	GC	A-2-7(3)		2.65	46	33	14.3	25.5

ROCK CORRECTED TEST RESULTS	UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 119.2 pcf	113.9 pcf	Brown clayey gravel with sand
Optimum moisture = 11.4 %	13.0 %	

Project No. 475.0106.032 **Client:** CC&V Gold Mining Company
Project: Squaw Gulch VLF Phase 2

○**Location:** Tezak Processing Plant **Sample Number:** NFSLF-88-C

NewFields

Remarks:

Figure NFSLF-88C

Tested By: JB **Checked By:** TW

NewFields

Flexible Wall Hydraulic Conductivity
ASTM D5084

Client:	Cripple Crrek and Victor Gold Mines	Lab Sample No.:	NFSLF-88-C
Project:	Squaw Gulch VLF PH2A		
Project No.:	475.0106.032	Location:	Tezak Processing Plant
Phase:	2A	Elevation/Depth:	Stockpile
Requested By:	EN	Tested By:	TW
Test Started:	8/16/2019	Checked By:	TW
Test Finished:	8/26/2019	Sample Description:	Brown clayey gravel with sand

Test Boundary Conditions	
Type of Permeant	De-aired Bottled
Magnitude of Back pressure (psi)	40
Saturated (Y/N):	Yes
Stage 1: Effective Stress (psi)	20
Sample Type	Remolded
Burrete Area (cm^2)	0.877

Test Specimen Data	Initial	During k Testing	Final
Wet Soil + Tare (g)	617.15		862.35
Dry Soil + Tare (g)	545.49		775.02
Tare (g)	0.00		253.53
Wt. of Water (g)	71.66		87.33
Dry Soil (g)	545.49		521.49
Moisture Content (%)	13.1		16.7
Sample Volume (ft^3)	0.01058	0.01056	
Dry Density (pcf)	113.4	113.4	
Wet Density (pcf)	128.6	133.1	
Saturation (%)	77.4	100.0	
Percent Compaction	95.0	95.0	
Height (in)	3.024	3.023	
Diameter (in)	2.775	2.774	
Area (in^2)	6.047	6.043	
Est. Moisture Content after Consolidation (%)		17.3%	
Est. Void Ratio after Consolidation		0.458	
Specific Gravity*	2.65		

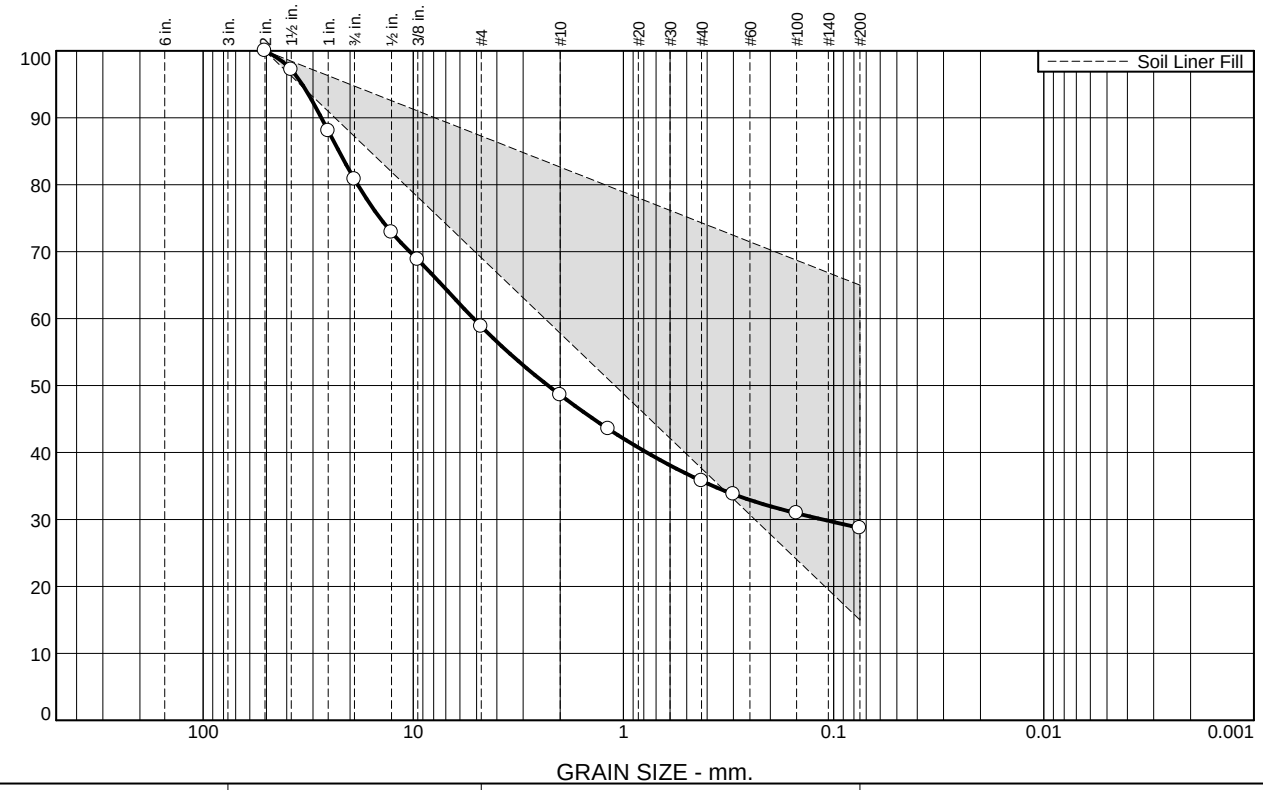
*Specific gravity is assumed

Maximum Dry Density:
ASTM D 698

Maximum Dry Density (pcf):	119.4
Initial Remolded Dry Density (pcf):	113.4
Initial Percent Compaction:	95%
Initial Void Ratio:	0.459
Optimum Moisture Content(%):	11.4
Initial Water Content (%):	13.1
Confining Pressure (psi):	20.0
Hydraulic Conductivity, k_{20} (cm/s):	**2.3E-07**
Gradient Range (h/L):	5.1 5.7

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	19.2	22.0	10.2	12.8	7.1	28.7	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2"	100.0	100.0	
1.5"	97.2		
1"	88.0		
3/4"	80.8		
1/2"	72.9		
3/8"	68.8		
#4	58.8		
#10	48.6		
#16	43.5		
#40	35.8		
#50	33.8		
#100	30.9		
#200	28.7	15.0 - 65.0	

* Soil Liner Fill

Material Description

Brown clayey gravel with sand

Atterberg Limits

PL= 13 LL= 46 PI= 33

Coefficients

D_{90}= 27.3788 D_{85}= 22.5788 D_{60}= 5.1625
D_{50}= 2.2845 D_{30}= 0.1129 D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= GC AASHTO= A-2-7(3)

Remarks

Natural Moisture: 12.5%

Location: Tezak Processing Plant
Sample Number: NFSLF-89-C **Depth:** Stockpile **Date:** 07/03/19

NewFields

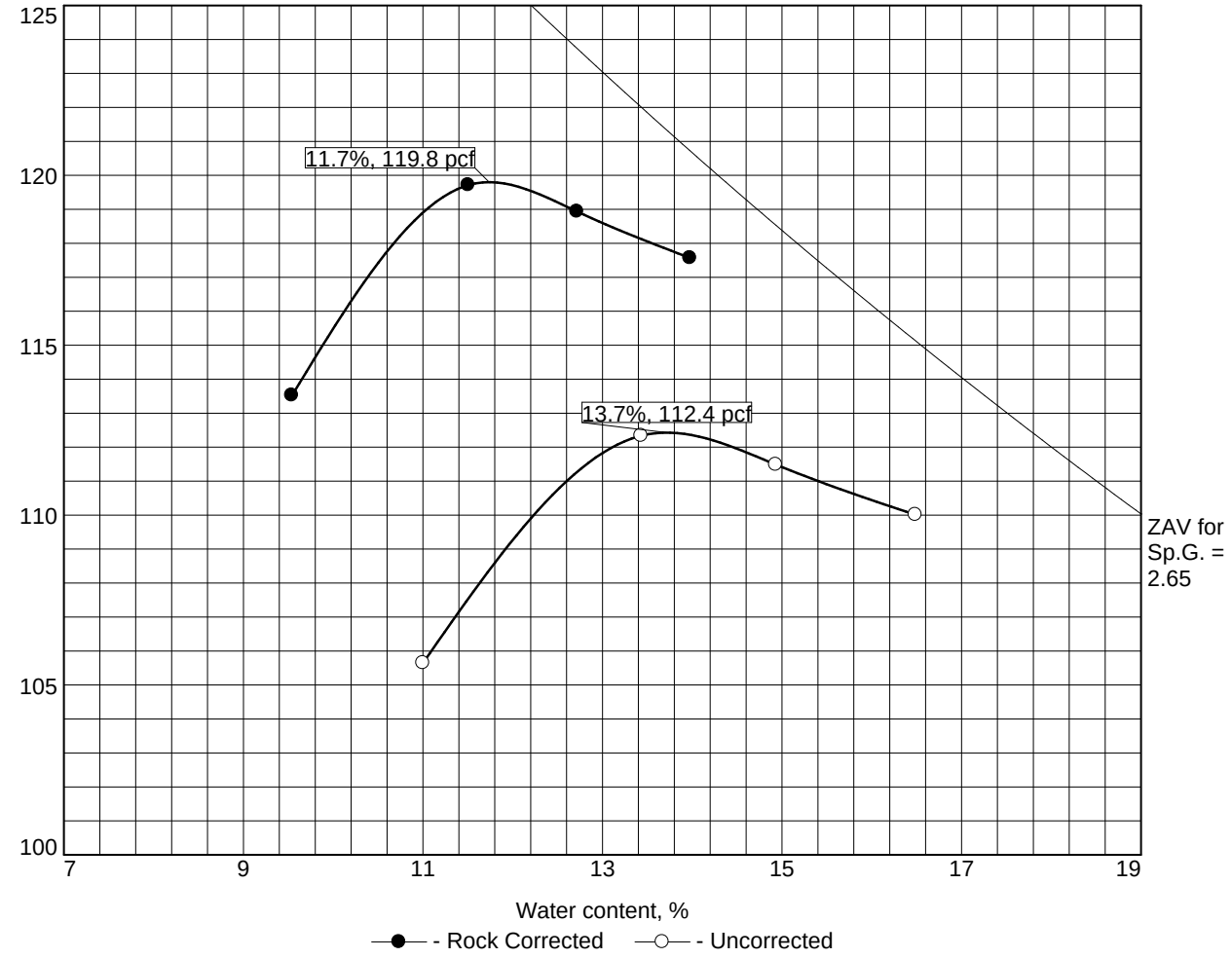
Client: CC&V Gold Mining Company
Project: Squaw Gulch VLF Phase 2

Project No: 475.0106.032 **Figure** NFSLF-89-C

Tested By: JB **Checked By:** TW

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

COMPACTION TEST REPORT



Test specification: ASTM D 698-12 Method C Standard
ASTM D4718-15 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/4 in.	% < No.200
	USCS	AASHTO						
Stockpile	GC	A-2-7(3)		2.65	46	33	19.2	28.7

ROCK CORRECTED TEST RESULTS	UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 119.8 pcf	112.4 pcf	Brown clayey gravel with sand
Optimum moisture = 11.7 %	13.7 %	

Project No. 475.0106.032 **Client:** CC&V Gold Mining Company
Project: Squaw Gulch VLF Phase 2

○**Location:** Tezak Processing Plant **Sample Number:** NFSLF-89-C

Remarks:

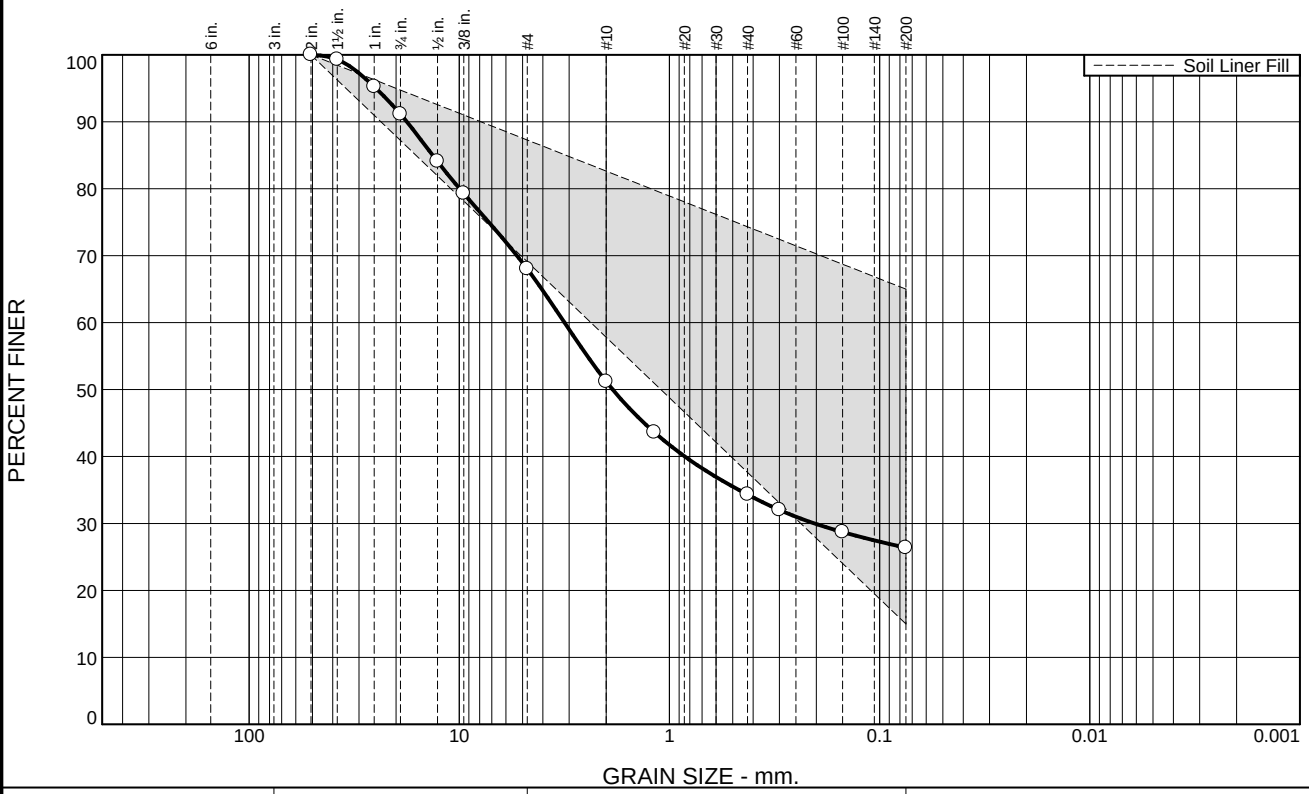
NewFields

Figure NFSLF-89C

Tested By: HW **Checked By:** TW

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	8.9	23.1	16.8	16.9	7.9	26.4	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2"	100.0	100.0	
1.5"	99.3		
1"	95.2		
3/4"	91.1		
1/2"	84.1		
3/8"	79.3		
#4	68.0		
#10	51.2		
#16	43.6		
#40	34.3		
#50	32.0		
#100	28.7		
#200	26.4	15.0 - 65.0	

* Soil Liner Fill

Material Description

Dark brown clayey sand with gravel

Atterberg Limits

PL= 10 LL= 42 PI= 32

Coefficients

D_{90}= 17.7653 D_{85}= 13.3908 D_{60}= 3.1581
D_{50}= 1.8629 D_{30}= 0.2040 D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= SC AASHTO= A-2-7(2)

Remarks

Natural Moisture: 13.0%

Location: Tezak Processing Plant
Sample Number: NFSLF-93-C **Depth:** Stockpile **Date:** 07/12/19

NewFields

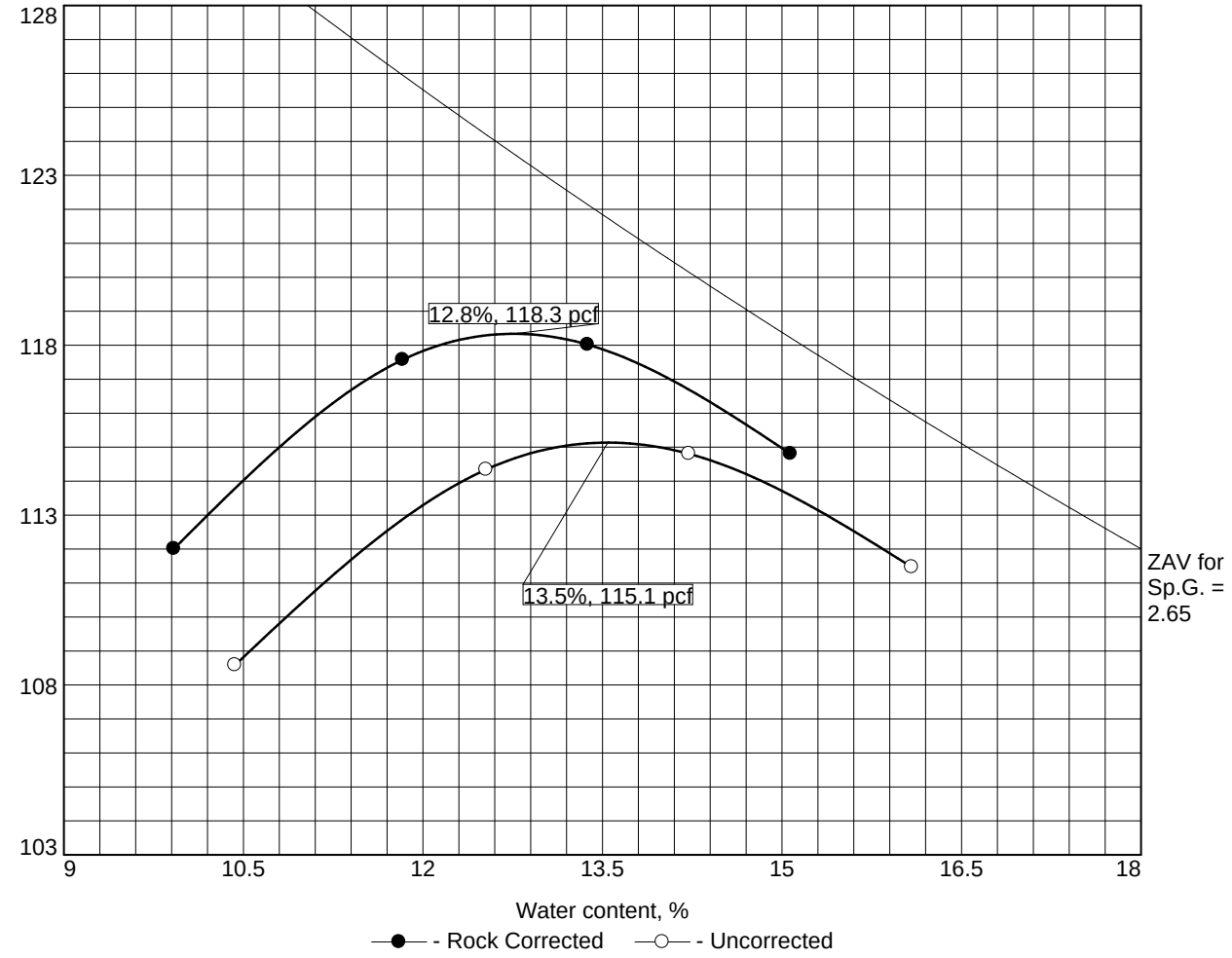
Client: CC&V Gold Mining Company
Project: Squaw Gulch VLF Phase 2

Project No: 475.0106.032 **Figure** NFSLF-93-C

Tested By: JB **Checked By:** TW

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

COMPACTION TEST REPORT



Test specification: ASTM D 698-12 Method C Standard
ASTM D4718-15 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/4 in.	% < No.200
	USCS	AASHTO						
Stockpile	SC	A-2-7(2)		2.65	42	32	8.9	26.4

ROCK CORRECTED TEST RESULTS	UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 118.3 pcf	115.1 pcf	Dark brown clayey sand with gravel
Optimum moisture = 12.8 %	13.5 %	

Project No. 475.0106.032 **Client:** CC&V Gold Mining Company
Project: Squaw Gulch VLF Phase 2

○**Location:** Tezak Processing Plant **Sample Number:** NFSLF-93-C

NewFields

Remarks:

Figure NFSLF-93C

Tested By: JB **Checked By:** TW

NewFields

Flexible Wall Hydraulic Conductivity
ASTM D5084

Client:	Cripple Crrek and Victor Gold Mines	Lab Sample No.:	NFSLF-93-C
Project:	Squaw Gulch VLF PH2A		
Project No.:	475.0106.032	Location:	Tezak Stockpile
Phase:	2A	Elevation/Depth:	Stockpile
Requested By:	EN	Tested By:	TW/EN
Test Started:	8/16/2019	Checked By:	TW/EN
Test Finished:	9/3/2019	Sample Description:	Dark brown clayey sand with gravel

Test Boundary Conditions	
Type of Permeant	De-aired Bottled
Magnitude of Back pressure (psi)	40
Saturated (Y/N):	Yes
Stage 1: Effective Stress (psi)	20
Sample Type	Remolded
Burrete Area (cm^2)	0.877

Test Specimen Data	Initial	During k Testing	Final
Wet Soil + Tare (g)	620.05		862.45
Dry Soil + Tare (g)	541.18		779.51
Tare (g)	0.00		236.87
Wt. of Water (g)	78.87		82.94
Dry Soil (g)	541.18		542.64
Moisture Content (%)	14.6		15.3
Sample Volume (ft^3)	0.01063	0.01061	
Dry Density (pcf)	112.0	112.0	
Wet Density (pcf)	128.6	133.0	
Saturation (%)	79.2	100.0	
Percent Compaction	94.7	94.7	
Height (in)	3.028	3.027	
Diameter (in)	2.780	2.779	
Area (in^2)	6.068	6.064	
Est. Moisture Content after Consolidation (%)		18.7%	
Est. Void Ratio after Consolidation		0.504	
Specific Gravity*	2.70		

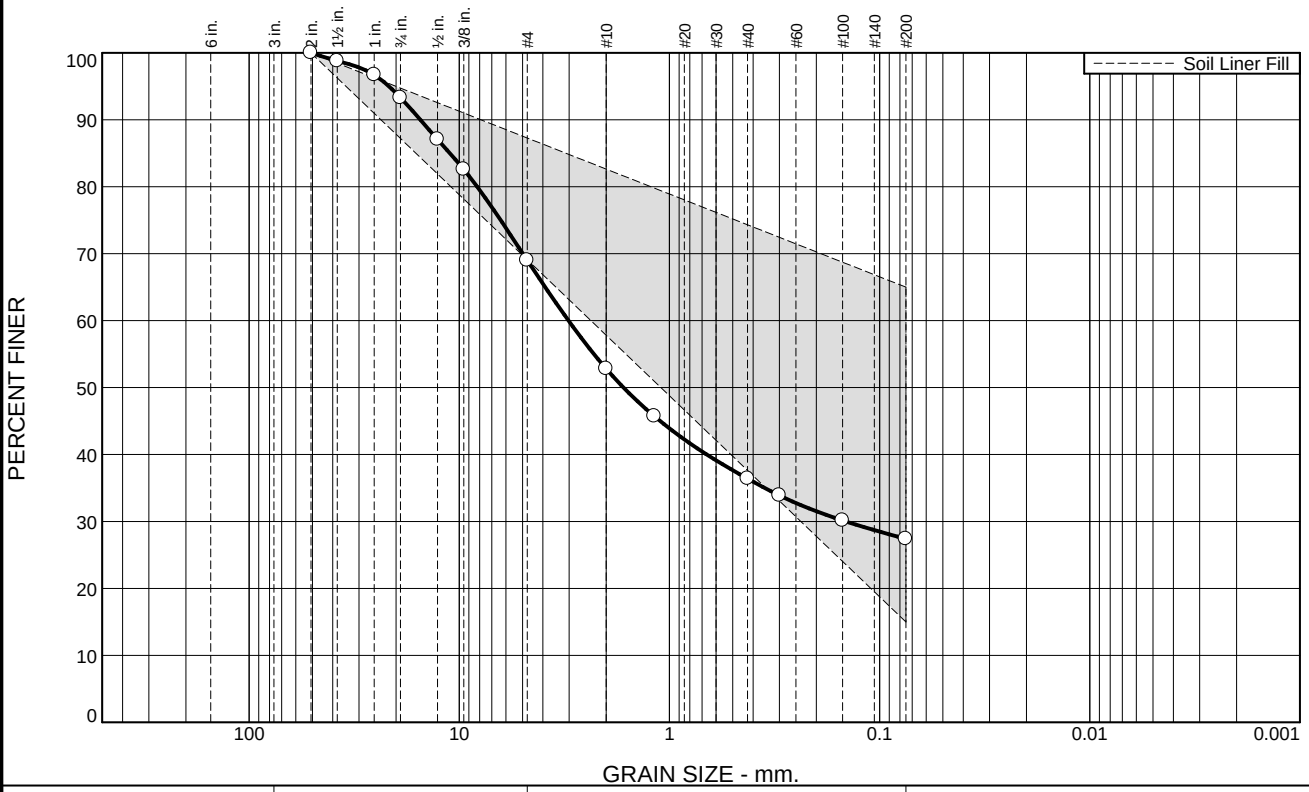
*Specific gravity is assumed

Maximum Dry Density:
ASTM D 698

Maximum Dry Density (pcf):	118.3	
Initial Remolded Dry Density (pcf):	112.0	
Initial Percent Compaction:	95%	
Initial Void Ratio:	0.504	
Optimum Moisture Content(%):	12.8	
Initial Water Content (%):	14.6	
Confining Pressure (psi):	20.0	
Hydraulic Conductivity, k_{20} (cm/s):	**5.0E-08**	
Gradient Range (h/L):	10.7	10.7

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	6.7	24.3	16.2	16.4	9.0	27.4	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2"	100.0	100.0	
1.5"	98.8		
1"	96.7		
3/4"	93.3		
1/2"	87.1		
3/8"	82.6		
#4	69.0		
#10	52.8		
#16	45.7		
#40	36.4		
#50	33.9		
#100	30.1		
#200	27.4	15.0 - 65.0	

* Soil Liner Fill

Material Description

Dark brown clayey sand with gravel

Atterberg Limits

PL= 12 LL= 40 PI= 28

Coefficients

D_{90}= 15.3191 D_{85}= 11.0927 D_{60}= 3.0227
D_{50}= 1.6541 D_{30}= 0.1451 D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= SC AASHTO= A-2-6(2)

Remarks

Natural Moisture: 11.6%

Location: Tezak Processing Plant
Sample Number: NFSLF-94-C **Depth:** Stockpile **Date:** 07/12/19

NewFields

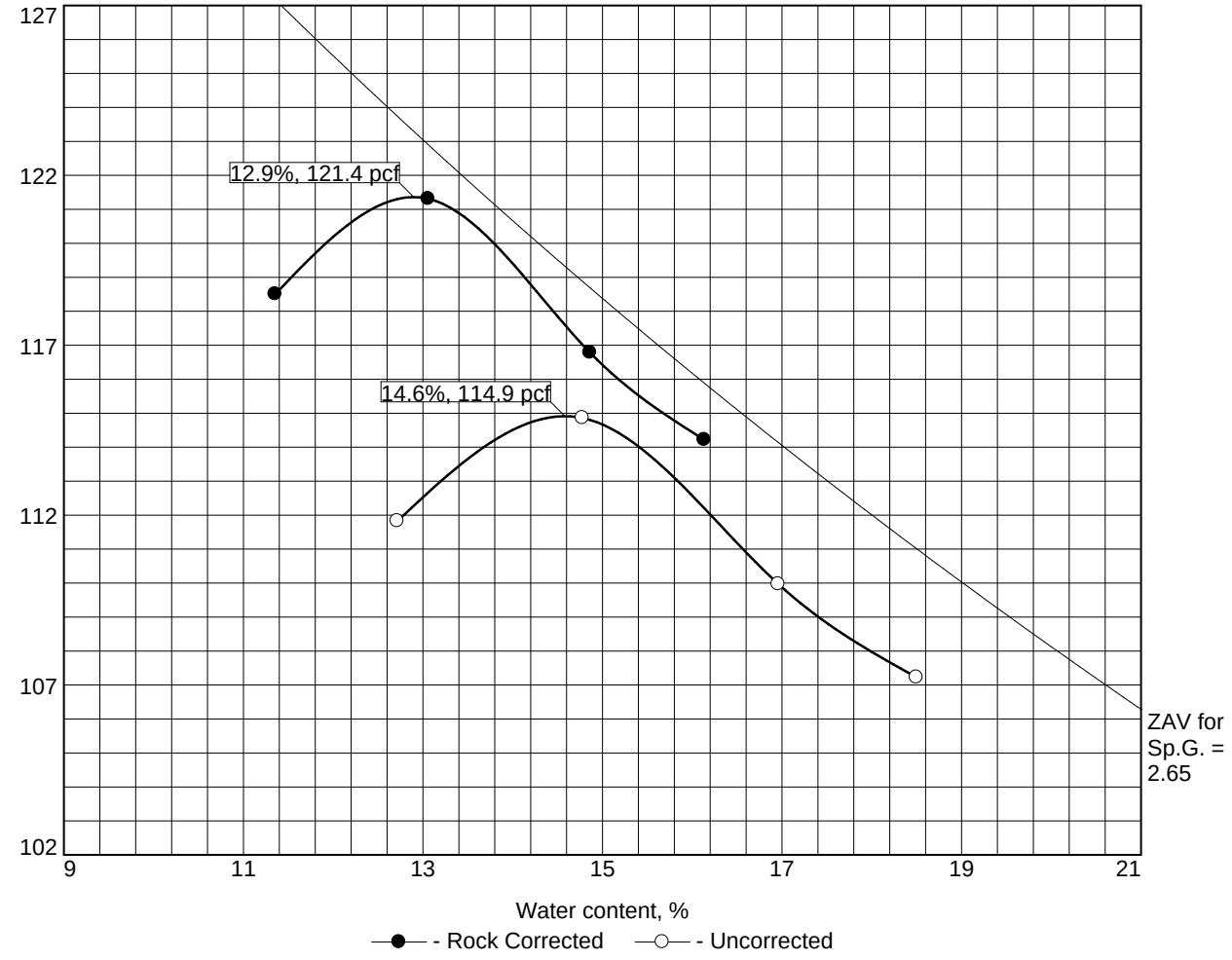
Client: CC&V Gold Mining Company
Project: Squaw Gulch VLF Phase 2

Project No: 475.0106.032 **Figure** NFSLF-94-C

Tested By: JB **Checked By:** TW

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

COMPACTION TEST REPORT



Test specification: ASTM D 698-12 Method B Standard
ASTM D4718-15 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/8 in.	% < No.200
	USCS	AASHTO						
Stockpile	SC	A-2-6(2)		2.65	40	28	17.4	27.4

ROCK CORRECTED TEST RESULTS	UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 121.4 pcf	114.9 pcf	Dark brown clayey sand with gravel
Optimum moisture = 12.9 %	14.6 %	

Project No. 475.0106.032 **Client:** CC&V Gold Mining Company
Project: Squaw Gulch VLF Phase 2

○**Location:** Tezak Processing Plant **Sample Number:** NFSLF-94-C

NewFields

Remarks:

Figure NFSLF-94C

Tested By: JB **Checked By:** TW

NewFields

Flexible Wall Hydraulic Conductivity
ASTM D5084

Client:	Cripple Crrek and Victor Gold Mines	Lab Sample No.:	NFSLF-94-C
Project:	Squaw Gulch VLF PH2A		
Project No.:	475.0106.032	Location:	Tezak Processing Plant
Phase:	2A	Elevation/Depth:	Stockpile
Requested By:	EN	Tested By:	EN/TW
Test Started:	8/26/2019	Checked By:	TW
Test Finished:	9/3/2019	Sample Description:	Dark brown clayey sand with gravel

Test Boundary Conditions	
Type of Permeant	De-aired Bottled
Magnitude of Back pressure (psi)	40
Saturated (Y/N):	Yes
Stage 2: Effective Stress (psi)	20
Sample Type	Remolded
Burrete Area (cm^2)	0.877

Test Specimen Data	Initial	During k Testing	Final
Wet Soil + Tare (g)	637.41		787.64
Dry Soil + Tare (g)	555.49		698.26
Tare (g)	0.00		145.82
Wt. of Water (g)	81.92		89.38
Dry Soil (g)	555.49		552.44
Moisture Content (%)	14.7		16.2
Sample Volume (ft^3)	0.01050	0.01040	
Dry Density (pcf)	116.1	117.5	
Wet Density (pcf)	135.6	136.4	
Saturation (%)	100.0%	100.0	
Percent Compaction	95.6	96.8	
Height (in)	3.010	3.000	
Diameter (in)	2.759	2.749	
Area (in^2)	5.977	5.936	
Est. Moisture Content after Consolidation (%)		16.1%	
Est. Void Ratio after Consolidation		0.435	
Specific Gravity*	2.70		

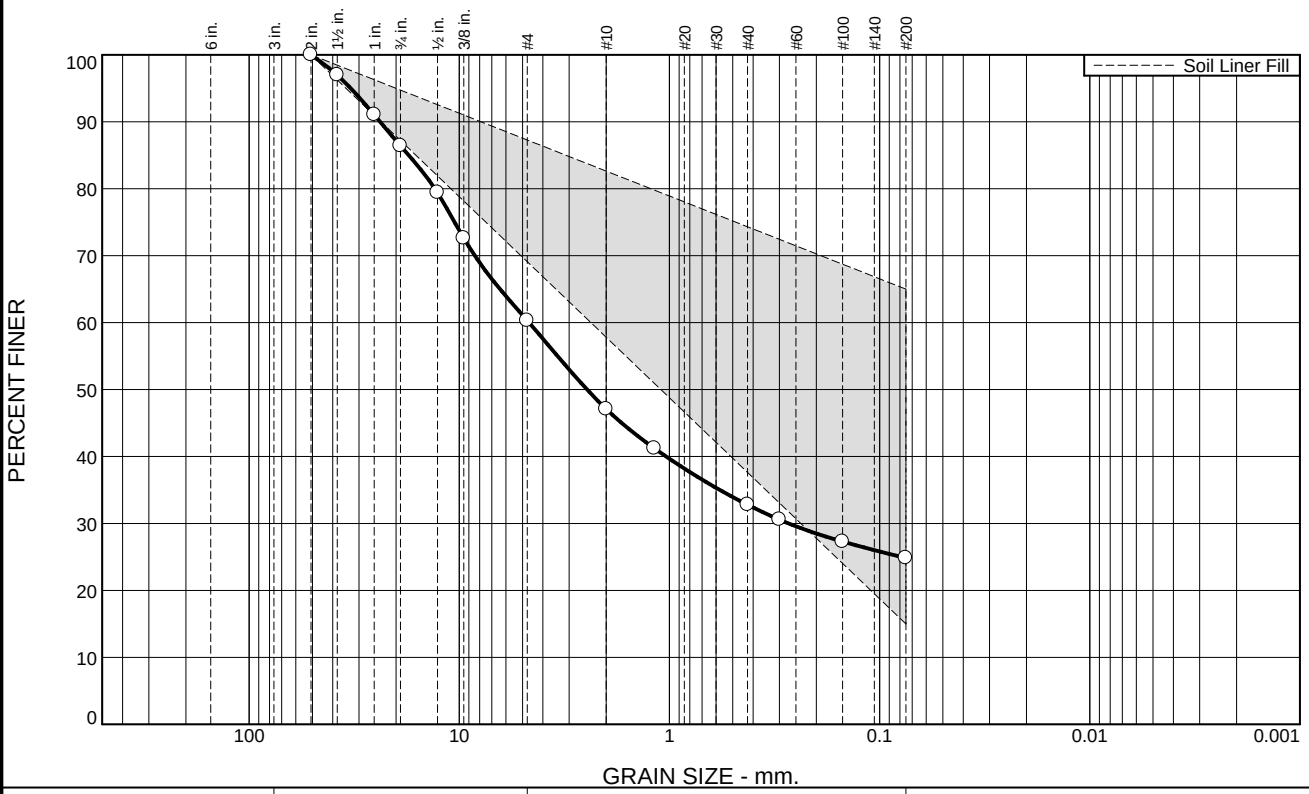
*Specific gravity is assumed

Maximum Dry Density:
ASTM D 698

Maximum Dry Density (pcf):	121.4
Initial Remolded Dry Density (pcf):	115.9
Initial Percent Compaction:	95%
Initial Void Ratio:	0.454
Optimum Moisture Content(%):	12.9
Initial Water Content (%):	14.7
Confining Pressure (psi):	20.0
Hydraulic Conductivity, k_{20} (cm/s):	**2.1E-08**
Gradient Range (h/L):	4.7 4.7

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	13.6	26.1	13.2	14.3	8.0	24.8	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2"	100.0	100.0	
1.5"	97.0		
1"	91.0		
3/4"	86.4		
1/2"	79.4		
3/8"	72.6		
#4	60.3		
#10	47.1		
#16	41.2		
#40	32.8		
#50	30.6		
#100	27.3		
#200	24.8	15.0 - 65.0	

* Soil Liner Fill

Material Description

Brown clayey gravel with sand

Atterberg Limits

PL= 13 LL= 39 PI= 27

Coefficients

D_{90}= 23.8193 D_{85}= 17.4002 D_{60}= 4.6568
D_{50}= 2.4647 D_{30}= 0.2708 D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= GC AASHTO= A-2-6(2)

Remarks

Natural Moisture: 15.5%

Location: Tezak Processing Plant
Sample Number: NFSLF-95-C **Depth:** Stockpile **Date:** 07/17/19

NewFields

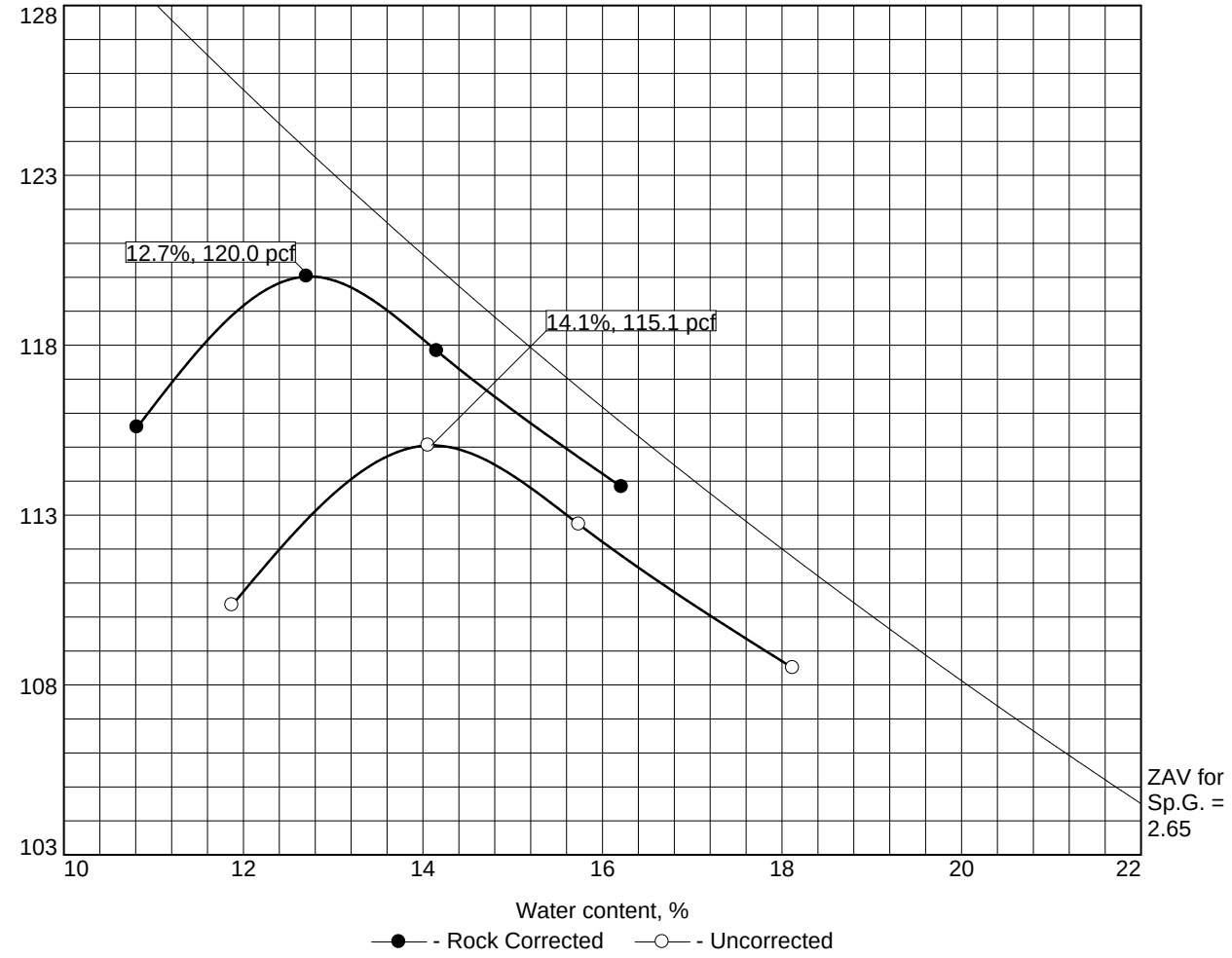
Client: CC&V Gold Mining Company
Project: Squaw Gulch VLF Phase 2

Project No: 475.0106.032 **Figure** NFSLF-95-C

Tested By: JG **Checked By:** TW

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

COMPACTION TEST REPORT



Test specification: ASTM D 698-12 Method C Standard
ASTM D4718-15 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/4 in.	% < No.200
	USCS	AASHTO						
Stockpile	GC	A-2-6(2)		2.65	39	27	13.6	24.8

ROCK CORRECTED TEST RESULTS	UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 120.0 pcf	115.1 pcf	Brown clayey gravel with sand
Optimum moisture = 12.7 %	14.1 %	

Project No. 475.0106.032 **Client:** CC&V Gold Mining Company
Project: Squaw Gulch VLF Phase 2

○**Location:** Tezak Processing Plant **Sample Number:** NFSLF-95-C

NewFields

Remarks:

Figure NFSLF-95C

Tested By: HW **Checked By:** TW

NewFields

Flexible Wall Hydraulic Conductivity
ASTM D5084

Client:	Cripple Crrek and Victor Gold Mines	Lab Sample No.:	NFSLF-95-C
Project:	Squaw Gulch VLF PH2A		
Project No.:	475.0106.032	Location:	Tezak Processing Plant
Phase:	2A	Elevation/Depth:	Stockpile
Requested By:	EN	Tested By:	TW
Test Started:	9/16/2019	Checked By:	TW
Test Finished:	9/18/2019	Sample Description:	Brown clayey gravel with sand

Test Boundary Conditions	
Type of Permeant	De-aired Bottled
Magnitude of Back pressure (psi)	40
Saturated (Y/N):	Yes
Stage 1: Effective Stress (psi)	20
Sample Type	Remolded
Burrete Area (cm^2)	0.877

Test Specimen Data	Initial	During k Testing	Final
Wet Soil + Tare (g)	619.43		846.17
Dry Soil + Tare (g)	549.14		770.26
Tare (g)	0.00		221.98
Wt. of Water (g)	70.29		75.91
Dry Soil (g)	549.14		548.28
Moisture Content (%)	12.8		13.8
Sample Volume (ft^3)	0.01064	0.01061	
Dry Density (pcf)	113.9	114.0	
Wet Density (pcf)	128.4	133.4	
Saturation (%)	74.5	100.0	
Percent Compaction	94.9	95.0	
Height (in)	3.013	3.012	
Diameter (in)	2.787	2.786	
Area (in^2)	6.100	6.096	
Est. Moisture Content after Consolidation (%)		17.0%	
Est. Void Ratio after Consolidation		0.451	
Specific Gravity*	2.65		

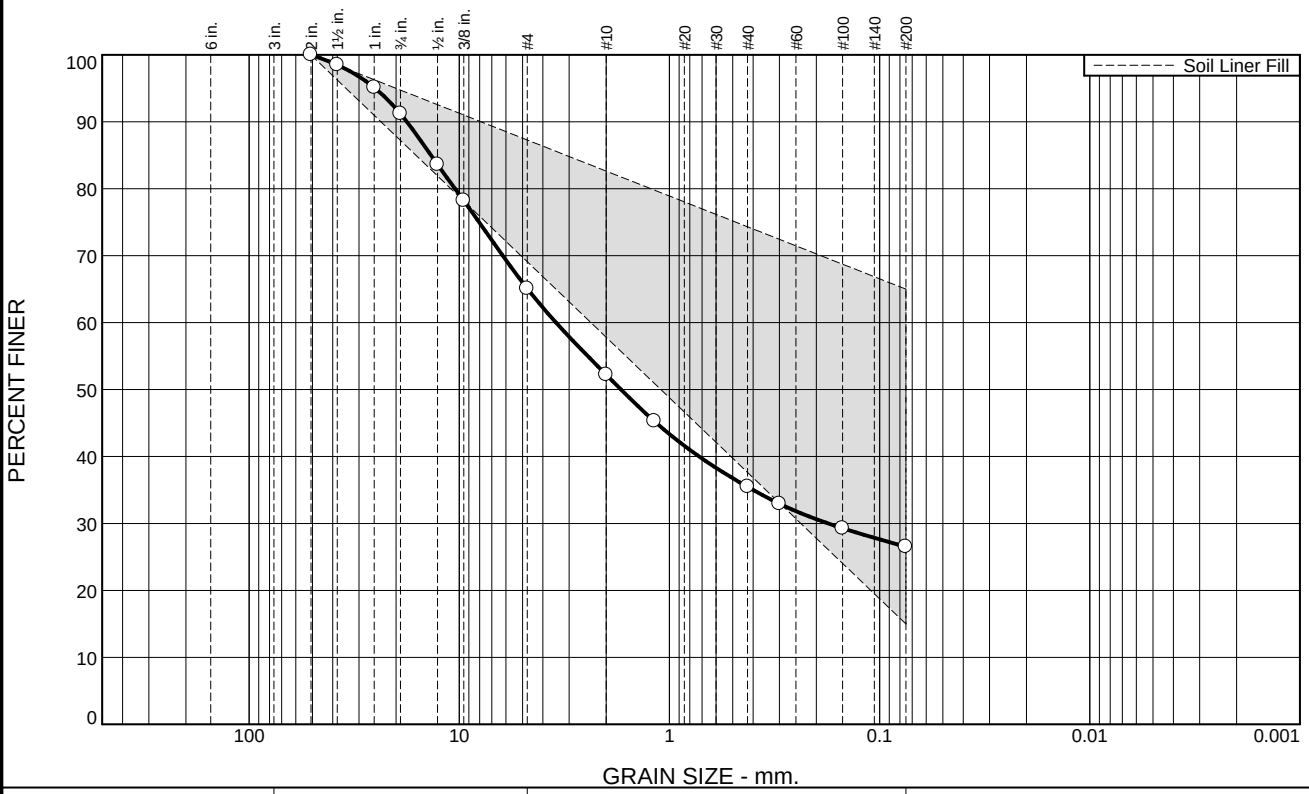
*Specific gravity is assumed

Maximum Dry Density:
ASTM D 698

Maximum Dry Density (pcf):	120
Initial Remolded Dry Density (pcf):	113.9
Initial Percent Compaction:	95%
Initial Void Ratio:	0.452
Optimum Moisture Content(%):	12.7
Initial Water Content (%):	12.8
Confining Pressure (psi):	20.0
Hydraulic Conductivity, k_{20} (cm/s):	**1.1E-07**
Gradient Range (h/L):	4.7 4.7

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	8.8	26.1	12.9	16.7	9.0	26.5	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2"	100.0	100.0	
1.5"	98.5		
1"	95.1		
3/4"	91.2		
1/2"	83.6		
3/8"	78.2		
#4	65.1		
#10	52.2		
#16	45.3		
#40	35.5		
#50	33.0		
#100	29.3		
#200	26.5	15.0 - 65.0	

* Soil Liner Fill

Material Description

Brown clayey sand with gravel

Atterberg Limits

PL= 14 LL= 36 PI= 23

Coefficients

D_{90}= 17.7574 D_{85}= 13.6400 D_{60}= 3.4644
D_{50}= 1.6991 D_{30}= 0.1755 D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= SC AASHTO= A-2-6(1)

Remarks

Natural Moisture: 11.0%

Location: Tezak Processing Plant
Sample Number: NFSLF-96-C **Depth:** Stockpile **Date:** 07/17/19

NewFields

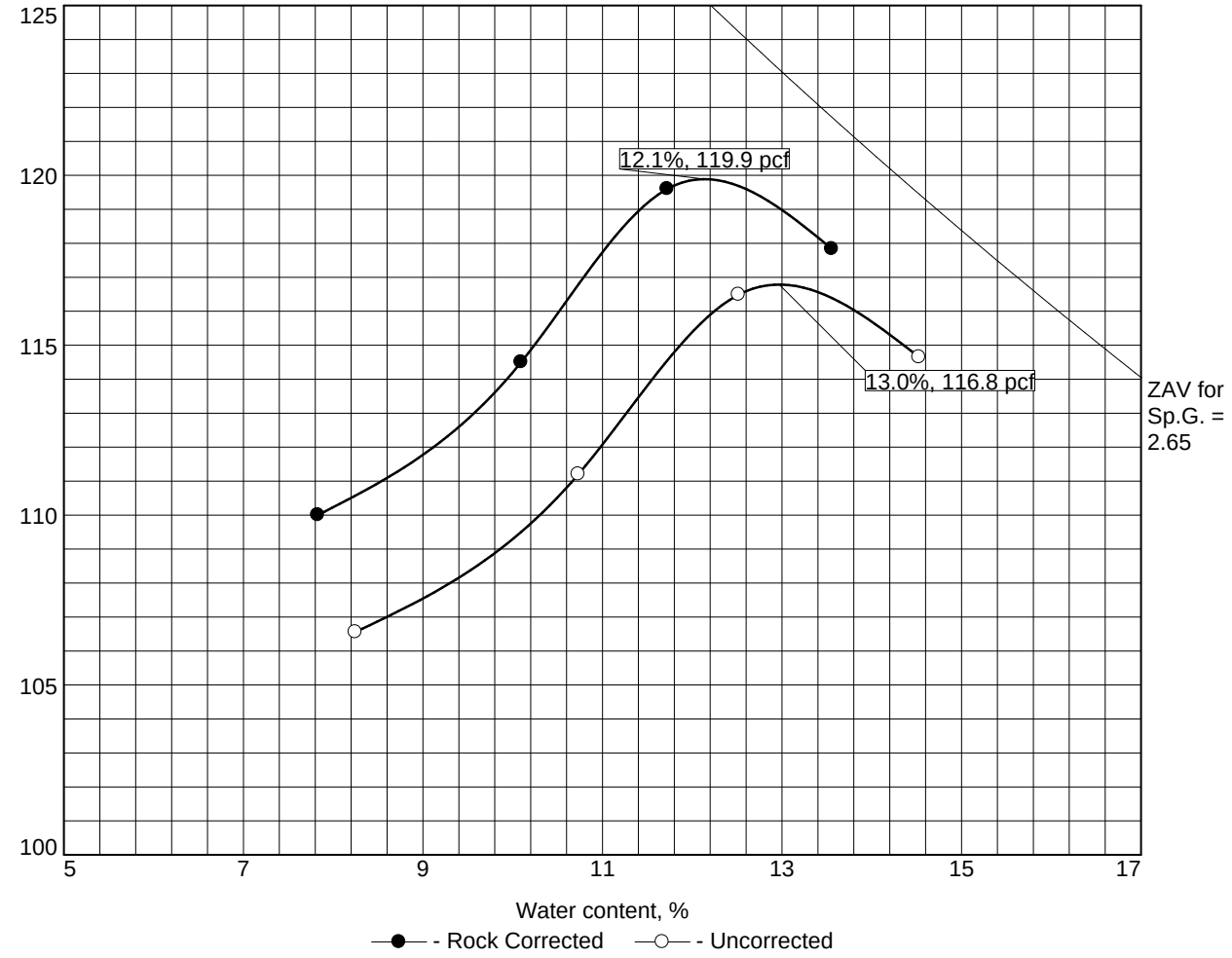
Client: CC&V Gold Mining Company
Project: Squaw Gulch VLF Phase 2

Project No: 475.0106.032 **Figure** NFSLF-96-C

Tested By: JG **Checked By:** TW

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

COMPACTION TEST REPORT



Test specification: ASTM D 698-91 Procedure C Standard
ASTM D4718-15 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/4 in.	% < No.200
	USCS	AASHTO						
Stockpile	SC	A-2-6(1)		2.65	36	23	8.8	26.5

ROCK CORRECTED TEST RESULTS	UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 119.9 pcf	116.8 pcf	Brown clayey sand with gravel
Optimum moisture = 12.1 %	13.0 %	

Project No. 475.0106.032 **Client:** CC&V Gold Mining Company
Project: Squaw Gulch VLF Phase 2

○**Location:** Tezak Processing Plant **Sample Number:** NFSLF-96-C

NewFields

Remarks:

Figure NFSLF-96C

Tested By: HW **Checked By:** TW

NewFields

Flexible Wall Hydraulic Conductivity
ASTM D5084

Client:	Cripple Crrek and Victor Gold Mines	Lab Sample No.:	NFSLF-96-C
Project:	Squaw Gulch VLF PH2A		
Project No.:	475.0106.032	Location:	Tezak Processing Plant
Phase:	2A	Elevation/Depth:	Stockpile
Requested By:	EN	Tested By:	TW
Test Started:	9/16/2019	Checked By:	TW
Test Finished:	9/18/2019	Sample Description:	Brown clayey sand with gravel

Test Boundary Conditions	
Type of Permeant	De-aired Bottled
Magnitude of Back pressure (psi)	40
Saturated (Y/N):	Yes
Stage 1: Effective Stress (psi)	20
Sample Type	Remolded
Burrete Area (cm^2)	0.877

Test Specimen Data	Initial	During k Testing	Final
Wet Soil + Tare (g)	615		804.42
Dry Soil + Tare (g)	552.31		728.57
Tare (g)	0.00		189.40
Wt. of Water (g)	62.69		75.85
Dry Soil (g)	552.31		539.17
Moisture Content (%)	11.3		14.1
Sample Volume (ft^3)	0.01058	0.01055	
Dry Density (pcf)	114.4	114.4	
Wet Density (pcf)	128.2	133.7	
Saturation (%)	71.9	100.0	
Percent Compaction	95.4	95.4	
Height (in)	3.015	3.014	
Diameter (in)	2.778	2.777	
Area (in^2)	6.061	6.057	
Est. Moisture Content after Consolidation (%)		16.8%	
Est. Void Ratio after Consolidation		0.445	
Specific Gravity*	2.65		

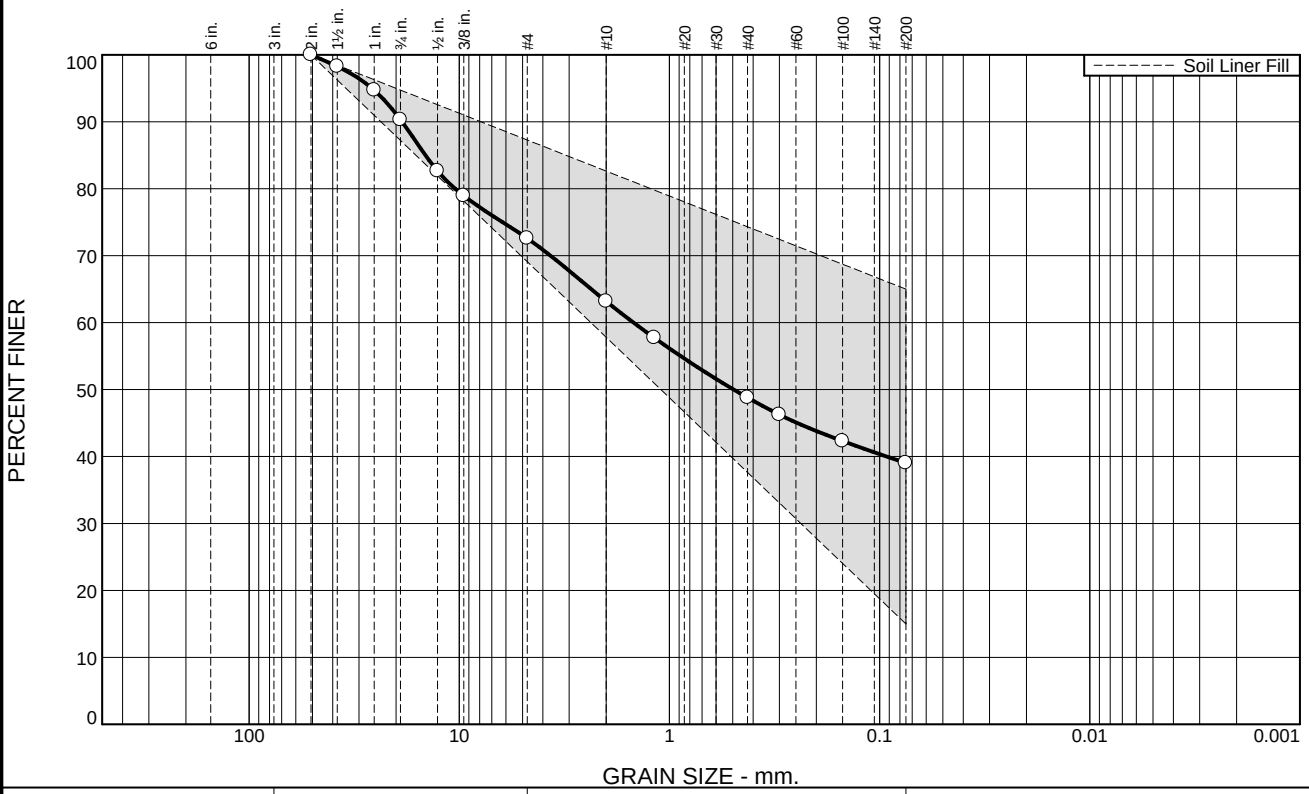
*Specific gravity is assumed

Maximum Dry Density:
ASTM D 698

Maximum Dry Density (pcf):	119.9
Initial Remolded Dry Density (pcf):	114.4
Initial Percent Compaction:	95%
Initial Void Ratio:	0.446
Optimum Moisture Content(%):	12.1
Initial Water Content (%):	11.3
Confining Pressure (psi):	20.0
Hydraulic Conductivity, k_{20} (cm/s):	**5.9E-07**
Gradient Range (h/L):	4.7 4.7

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	9.7	17.7	9.4	14.4	9.8	39.0	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2"	100.0	100.0	
1.5"	98.3		
1"	94.7		
3/4"	90.3		
1/2"	82.7		
3/8"	79.0		
#4	72.6		
#10	63.2		
#16	57.7		
#40	48.8		
#50	46.3		
#100	42.3		
#200	39.0	15.0 - 65.0	

* Soil Liner Fill

Material Description

Brown clayey sand with gravel

Atterberg Limits

PL= 11 LL= 38 PI= 27

Coefficients

D_{90}= 18.7302 D_{85}= 14.4933 D_{60}= 1.4811
D_{50}= 0.4945 D_{30}= D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= SC AASHTO= A-6(5)

Remarks

Natural Moisture: 11.5%

Location: Tezak Processing Plant
Sample Number: NFSLF-100-C **Depth:** Stockpile **Date:** 08/02/19

NewFields

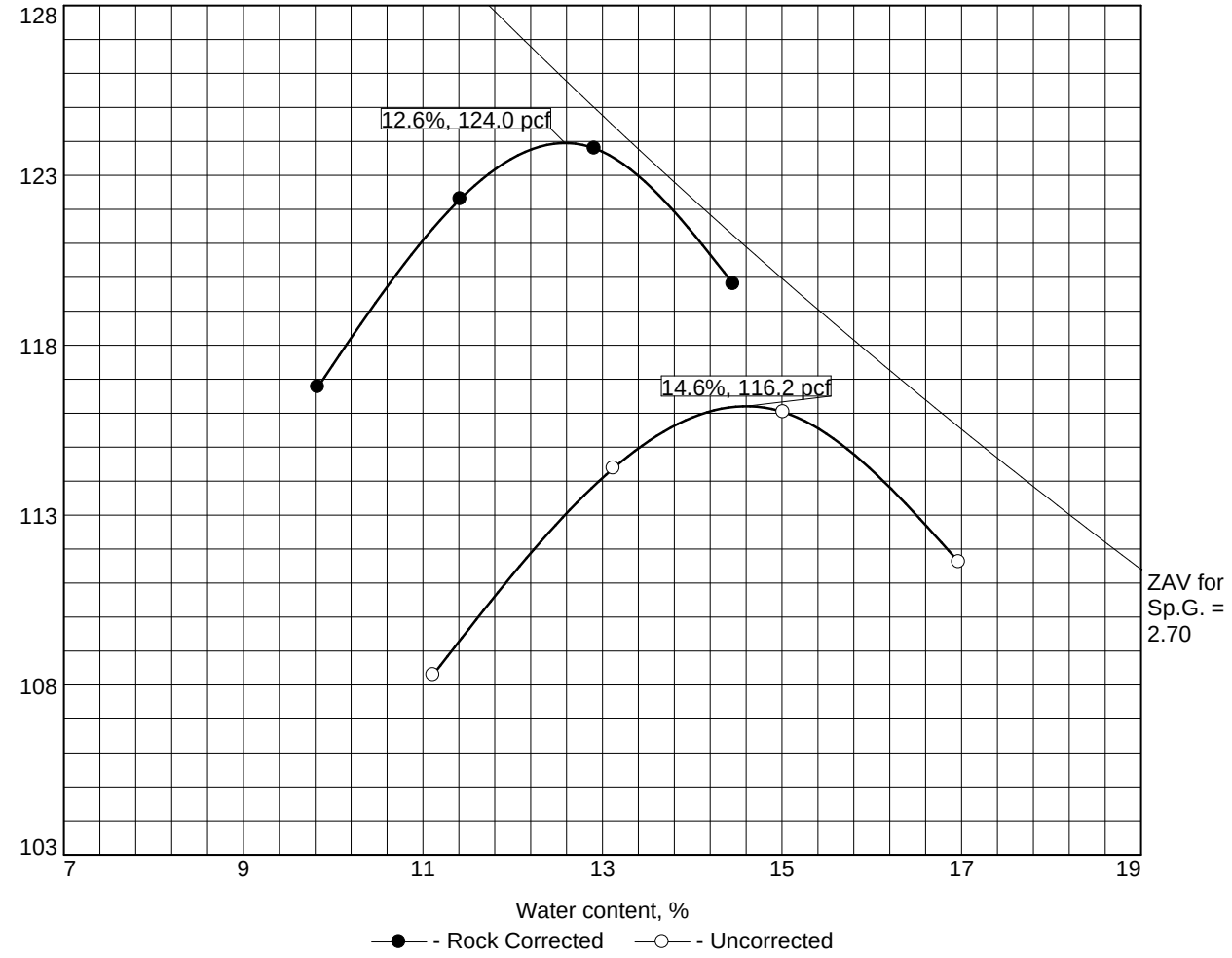
Client: CC&V Gold Mining Company
Project: Squaw Gulch VLF Phase 2

Project No: 475.0106.032 **Figure** NFSLF-100-C

Tested By: JB **Checked By:** TW

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

COMPACTION TEST REPORT



Test specification: ASTM D 698-91 Procedure B Standard
ASTM D4718-15 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/8 in.	% < No.200
	USCS	AASHTO						
Stockpile	SC	A-6(5)		2.65	38	27	21.0	39.0

ROCK CORRECTED TEST RESULTS	UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 124.0 pcf	116.2 pcf	Brown clayey sand with gravel
Optimum moisture = 12.6 %	14.6 %	

Project No. 475.0106.032 **Client:** CC&V Gold Mining Company
Project: Squaw Gulch VLF Phase 2

○**Location:** Tezak Processing Plant **Sample Number:** NFSLF-100-C

NewFields

Remarks:

Figure NFSLF-100C

Tested By: JB **Checked By:** TW

NewFields

Flexible Wall Hydraulic Conductivity
ASTM D5084

Client:	Cripple Crrek and Victor Gold Mines	Lab Sample No.:	NFSLF-100-C
Project:	Squaw Gulch VLF PH2A		
Project No.:	475.0106.032	Location:	Tezak Processing Plant
Phase:	2	Elevation/Depth:	Stockpile
Requested By:	EN	Tested By:	TW
Test Started:	9/16/2019	Checked By:	TW
Test Finished:	9/18/2019	Sample Description:	Brown clayey sand with gravel

Test Boundary Conditions	
Type of Permeant	De-aired Bottled
Magnitude of Back pressure (psi)	40
Saturated (Y/N):	Yes
Stage 1: Effective Stress (psi)	5
Sample Type	Remolded
Burrete Area (cm^2)	0.877

Test Specimen Data	Initial	During k Testing	Final
Wet Soil + Tare (g)	638.41		837.99
Dry Soil + Tare (g)	570.30		754.47
Tare (g)	0.00		192.10
Wt. of Water (g)	68.11		83.52
Dry Soil (g)	570.30		562.37
Moisture Content (%)	11.9		14.9
Sample Volume (ft^3)	0.01057	0.01055	
Dry Density (pcf)	118.2	118.3	
Wet Density (pcf)	133.1	136.1	
Saturation (%)	83.7	100.0	
Percent Compaction	95.3	95.4	
Height (in)	3.019	3.018	
Diameter (in)	2.776	2.775	
Area (in^2)	6.051	6.047	
Est. Moisture Content after Consolidation (%)		15.0%	
Est. Void Ratio after Consolidation		0.398	
Specific Gravity*	2.65		

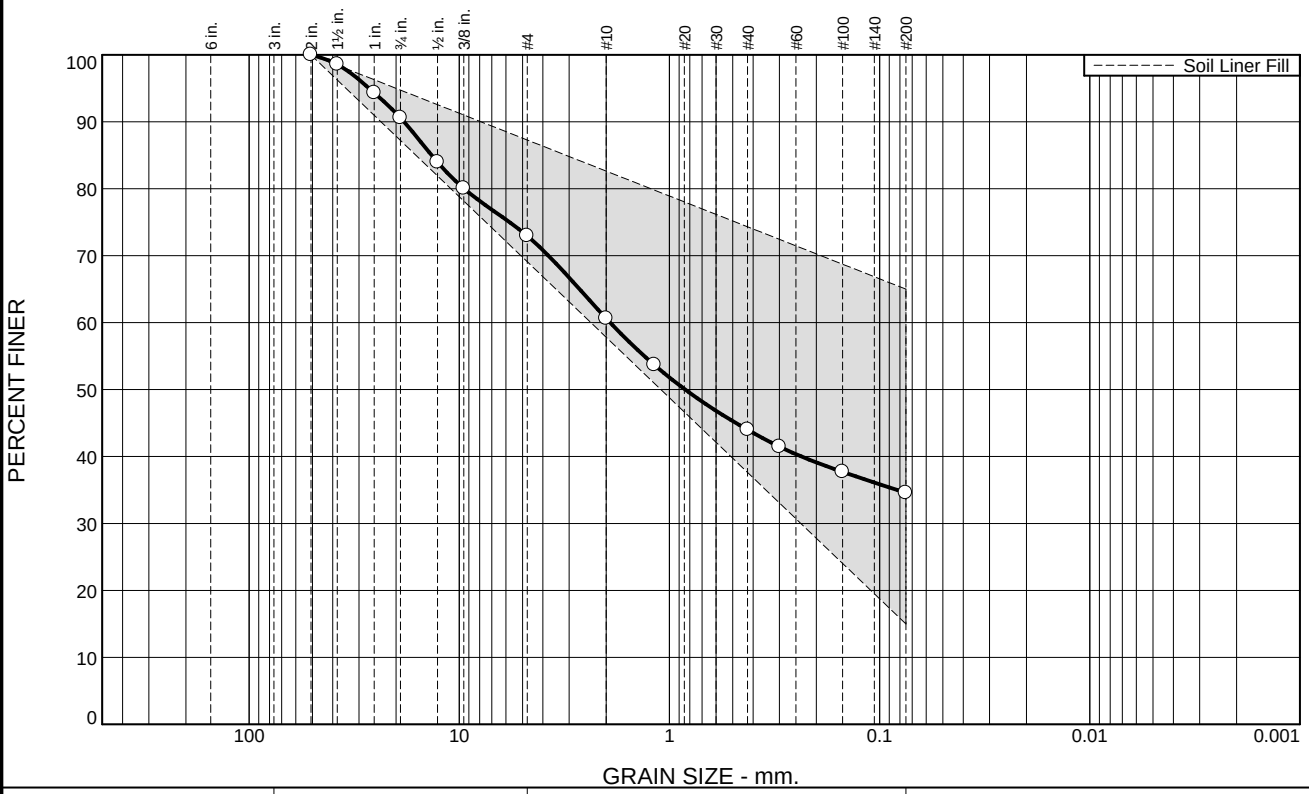
*Specific gravity is assumed

Maximum Dry Density:
ASTM D 698

Maximum Dry Density (pcf):	124
Initial Remolded Dry Density (pcf):	118.2
Initial Percent Compaction:	95%
Initial Void Ratio:	0.399
Optimum Moisture Content(%):	12.6
Initial Water Content (%):	11.9
Confining Pressure (psi):	5.0
Hydraulic Conductivity, k_{20} (cm/s):	**5.3E-08**
Gradient Range (h/L):	10.1 10.2

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	9.4	17.6	12.4	16.6	9.4	34.6	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2"	100.0	100.0	
1.5"	98.6		
1"	94.3		
3/4"	90.6		
1/2"	84.0		
3/8"	80.1		
#4	73.0		
#10	60.6		
#16	53.7		
#40	44.0		
#50	41.5		
#100	37.7		
#200	34.6	15.0 - 65.0	

* Soil Liner Fill

Material Description

Brown clayey sand with gravel

Atterberg Limits

PL= 11 LL= 35 PI= 24

Coefficients

D_{90}= 18.3172 D_{85}= 13.5398 D_{60}= 1.9143
D_{50}= 0.8413 D_{30}= D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= SC AASHTO= A-2-6(3)

Remarks

Natural Moisture: 9.3%

Location: Tezak Processing Plant
Sample Number: NFSLF-112-C **Depth:** Stockpile **Date:** 08/19/19

NewFields

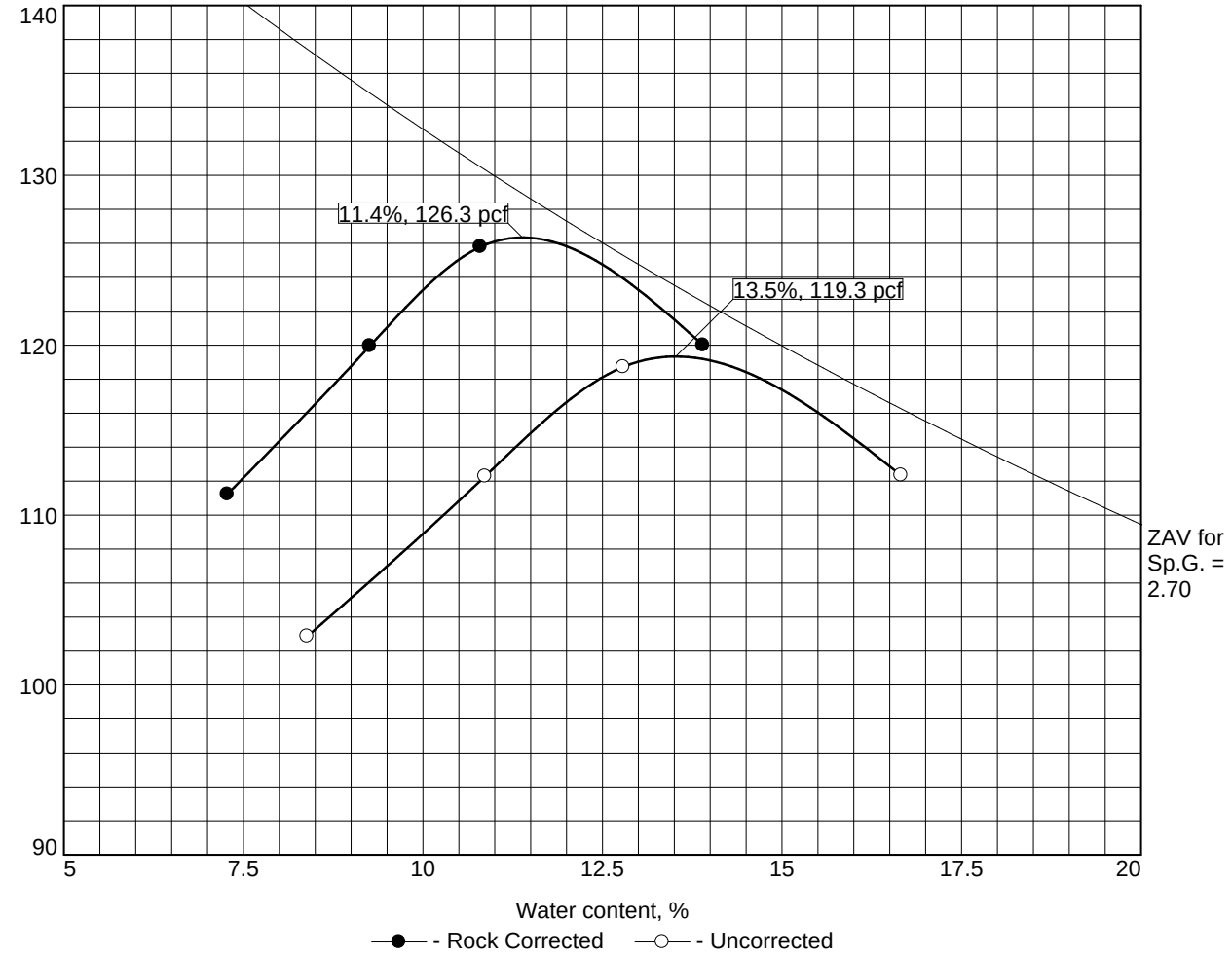
Client: CC&V Gold Mining Company
Project: Squaw Gulch VLF Phase 2

Project No: 475.0106.032 **Figure** NFSLF-112-C

Tested By: JB **Checked By:** TW

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

COMPACTION TEST REPORT



Test specification: ASTM D 698-12 Method B Standard
ASTM D4718-15 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/8 in.	% < No.200
	USCS	AASHTO						
Stockpile	SC	A-2-6(3)		2.65	35	24	19.9	34.6

ROCK CORRECTED TEST RESULTS	UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 126.3 pcf	119.3 pcf	Brown clayey sand with gravel
Optimum moisture = 11.4 %	13.5 %	

Project No. 475.0106.032 **Client:** CC&V Gold Mining Company
Project: Squaw Gulch VLF Phase 2

○**Location:** Tezak Processing Plant **Sample Number:** NFSLF-112-C

NewFields

Remarks:

Figure NFSLF-112C

Tested By: JB **Checked By:** TW

NewFields

Flexible Wall Hydraulic Conductivity
ASTM D5084

Client:	Cripple Crrek and Victor Gold Mines	Lab Sample No.:	NFSLF-112-C
Project:	Squaw Gulch VLF PH2A		
Project No.:	475.0106.032	Location:	Tezak Processing Plant
Phase:	2	Elevation/Depth:	Stockpile
Requested By:	EN	Tested By:	TW
Test Started:	9/19/2019	Checked By:	TW
Test Finished:	9/24/2019	Sample Description:	Brown clayey sand with gravel

Test Boundary Conditions	
Type of Permeant	De-aired Bottled
Magnitude of Back pressure (psi)	40
Saturated (Y/N):	Yes
Stage 1: Effective Stress (psi)	5
Sample Type	Remolded
Burrete Area (cm^2)	0.877

Test Specimen Data	Initial	During k Testing	Final
Wet Soil + Tare (g)	642.8		855.30
Dry Soil + Tare (g)	577.23		764.50
Tare (g)	0.00		119.00
Wt. of Water (g)	65.57		90.80
Dry Soil (g)	577.23		645.50
Moisture Content (%)	11.4		14.1
Sample Volume (ft^3)	0.01060	0.01057	
Dry Density (pcf)	120.1	120.1	
Wet Density (pcf)	133.8	137.3	
Saturation (%)	80.1	100.0	
Percent Compaction	95.1	95.1	
Height (in)	3.016	3.015	
Diameter (in)	2.780	2.779	
Area (in^2)	6.070	6.066	
Est. Moisture Content after Consolidation (%)		14.2%	
Est. Void Ratio after Consolidation		0.377	
Specific Gravity*	2.65		

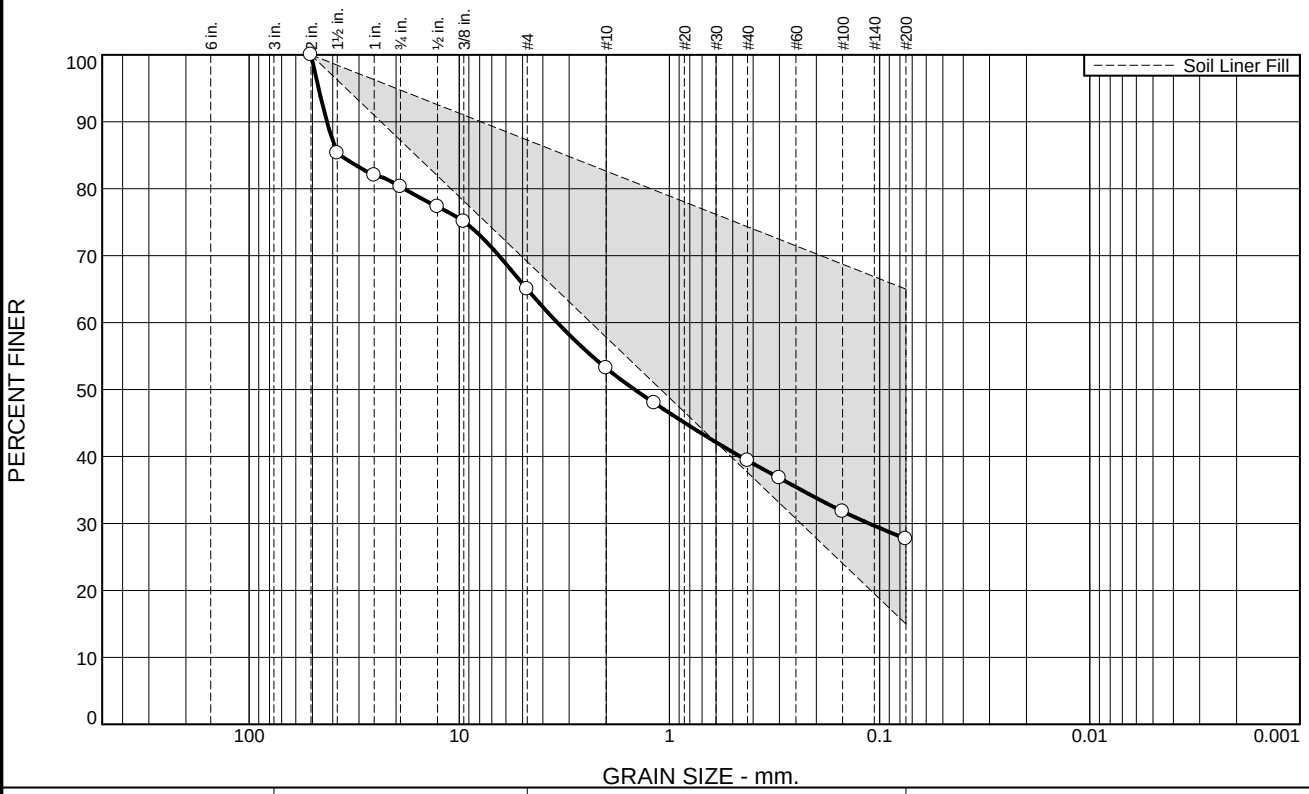
*Specific gravity is assumed

Maximum Dry Density:
ASTM D 698

Maximum Dry Density (pcf):	126.3
Initial Remolded Dry Density (pcf):	120.1
Initial Percent Compaction:	95%
Initial Void Ratio:	0.377
Optimum Moisture Content(%):	11.4
Initial Water Content (%):	11.4
Confining Pressure (psi):	5.0
Hydraulic Conductivity, k_{20} (cm/s):	**2.1E-07**
Gradient Range (h/L):	10.1 10.2

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	19.7	15.3	11.8	13.8	11.7	27.7	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2"	100.0	100.0	
1.5"	85.3		
1"	82.0		
3/4"	80.3		
1/2"	77.3		
3/8"	75.1		
#4	65.0		
#10	53.2		
#16	48.0		
#40	39.4		
#50	36.8		
#100	31.8		
#200	27.7	15.0 - 65.0	

* Soil Liner Fill

Material Description

Dark brown clayey sand with gravel

Atterberg Limits

PL= 16 LL= 41 PI= 25

Coefficients

D_{90}= 42.6458 D_{85}= 36.8956 D_{60}= 3.4155
D_{50}= 1.4633 D_{30}= 0.1124 D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= SC AASHTO= A-2-7(2)

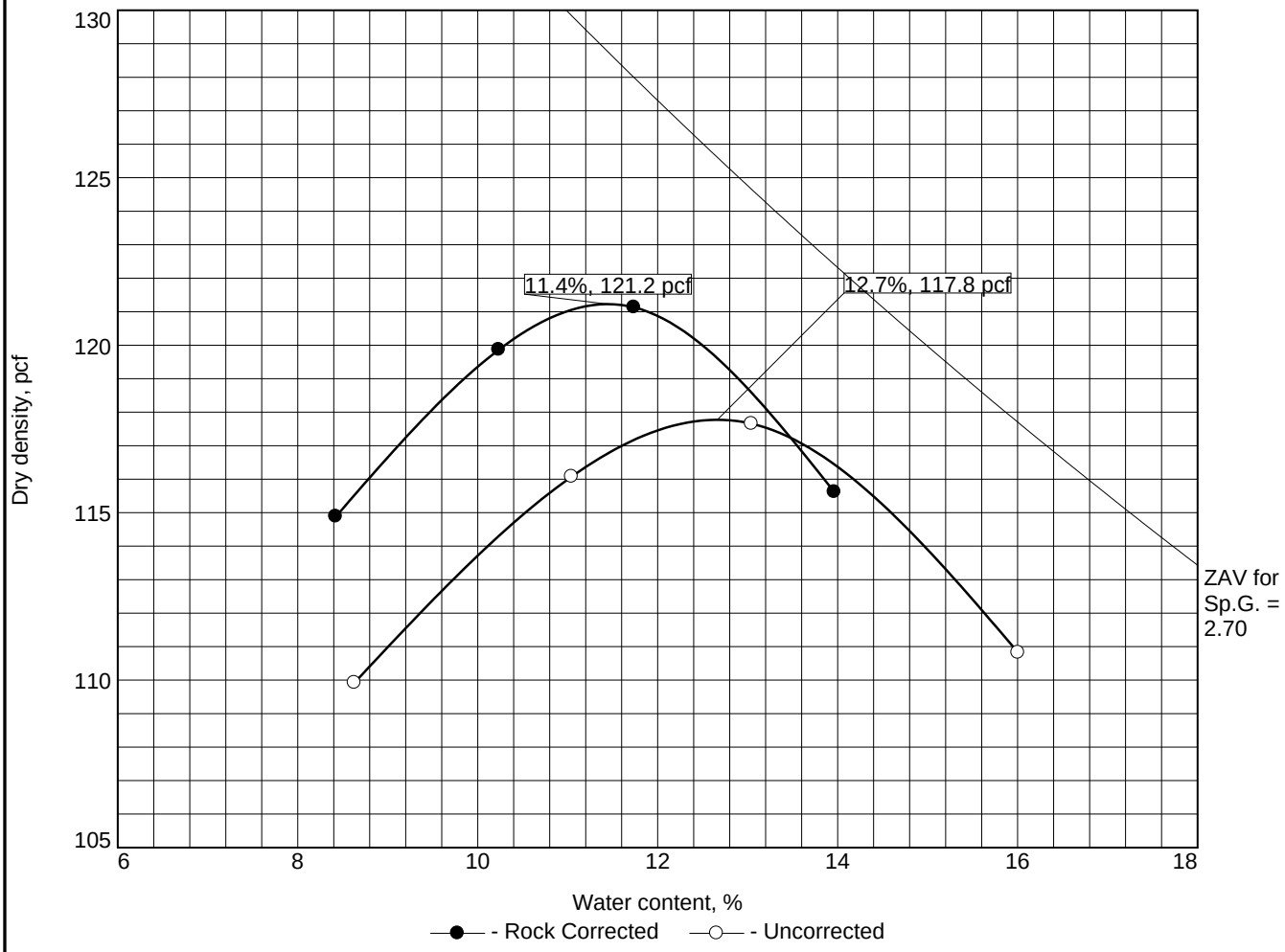
Remarks

Location: Tezak Processing Plant
Sample Number: NFSLF-113-C **Depth:** Stockpile **Date:** 10/23/2019

NewFields

Client: CC&V Gold Mining Company
Project: VLF Phase 2B
Project No: 475.0106.032 **Figure** NFSLF-113-C

Tested By: AR **Checked By:** JH



Test specification: ASTM D 1557-12 Method B Modified
ASTM D4718-15 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/8 in.	% < No.200
	USCS	AASHTO						
	SC	A-2-7(2)		2.70	41	25	24.9	27.7

ROCK CORRECTED TEST RESULTS	UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 121.2 pcf	117.8 pcf	Dark Brown clayey sand with gravel
Optimum moisture = 11.4 %	12.7 %	

Project No. 475.0106.032 **Client:** Newmont-Cripple Creek & Victor Gold Mine
Project: VLF 2 Phase 2B
Date: 12/10/2019
Location: Tezak Processing Plant **Sample Number:** NFSLF-113-C

Remarks:
*Assumed Specific Gravity

NewFields

Figure 19-415-01

Tested By: KG **Checked By:** JH

NewFields

Flexible Wall Hydraulic Conductivity
ASTM D5084

Client:	CC & V Gold Mining Company	Lab Sample No.:	NFSLF-113-C
Project:	VLF 2	Field Sample No.:	NFSLF-113-C
Project No.:	475.0106.032	Location:	Tezak Processing Plant
Phase:	2A	Elevation/Depth:	Stockpile
Requested By:	JM	Tested By:	TW
Test Started:	12/6/2019	Checked By:	TW
Test Finished:	12/9/2019	Sample Description:	Dark brown clayey sand w/ gravel

Test Boundary Conditions	
Type of Permeant	De-aired Bottled
Magnitude of Back pressure (psi)	50
Saturated (Y/N):	Yes
Stage 1: Effective Stress (psi)	5
Sample Type	Remolded
Burrete Area (cm^2)	0.877

Test Specimen Data	Initial	During k Testing	Final
Wet Soil + Tare (g)	624.91		665.00
Dry Soil + Tare (g)	562.90		598.00
Tare (g)	0.00		119.00
Wt. of Water (g)	62.01		67.00
Dry Soil (g)	562.90		479.00
Moisture Content (%)	11.0		14.0
Sample Volume (ft^3)	0.01072	0.01067	
Dry Density (pcf)	115.4	115.6	
Wet Density (pcf)	128.6	135.3	
Saturation (%)	66.9	100.0	
Percent Compaction	95.2	95.4	
Height (in)	3.029	3.027	
Diameter (in)	2.790	2.787	
Area (in^2)	6.112	6.101	
Est. Moisture Content after Consolidation (%)		16.9%	
Est. Void Ratio after Consolidation		0.457	
Specific Gravity*	2.70		

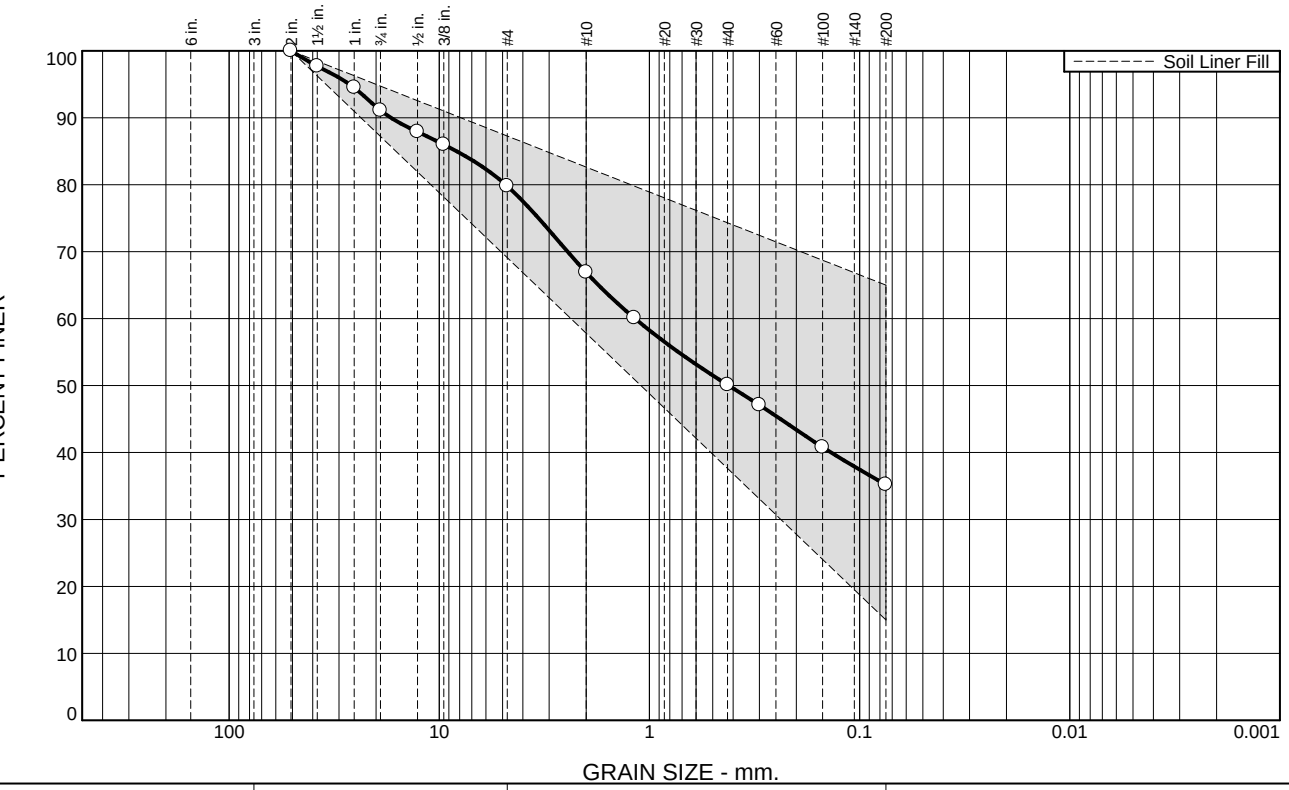
*Specific gravity is assumed

Maximum Dry Density:
ASTM D 698

Maximum Dry Density (pcf):	121.2
Initial Remolded Dry Density (pcf):	115.4
Initial Percent Compaction:	95%
Initial Void Ratio:	0.460
Optimum Moisture Content(%):	11.4
Initial Water Content (%):	11.0
Confining Pressure (psi):	5.0
Hydraulic Conductivity, k_{20} (cm/s):	**5.1E-07**
Gradient Range (h/L):	4.7 4.7

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	8.9	11.3	12.9	16.8	14.9	35.2	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2"	100.0	100.0	
1.5"	97.7		
1"	94.5		
3/4"	91.1		
1/2"	87.9		
3/8"	86.0		
#4	79.8		
#10	66.9		
#16	60.1		
#40	50.1		
#50	47.1		
#100	40.8		
#200	35.2	15.0 - 65.0	

* Soil Liner Fill

Material Description

Red clayey sand with gravel

Atterberg Limits

PL= 14 LL= 37 PI= 23

Coefficients

D_{90}= 17.0105 D_{85}= 8.2677 D_{60}= 1.1697
D_{50}= 0.4201 D_{30}= D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= SC AASHTO= A-2-6(3)

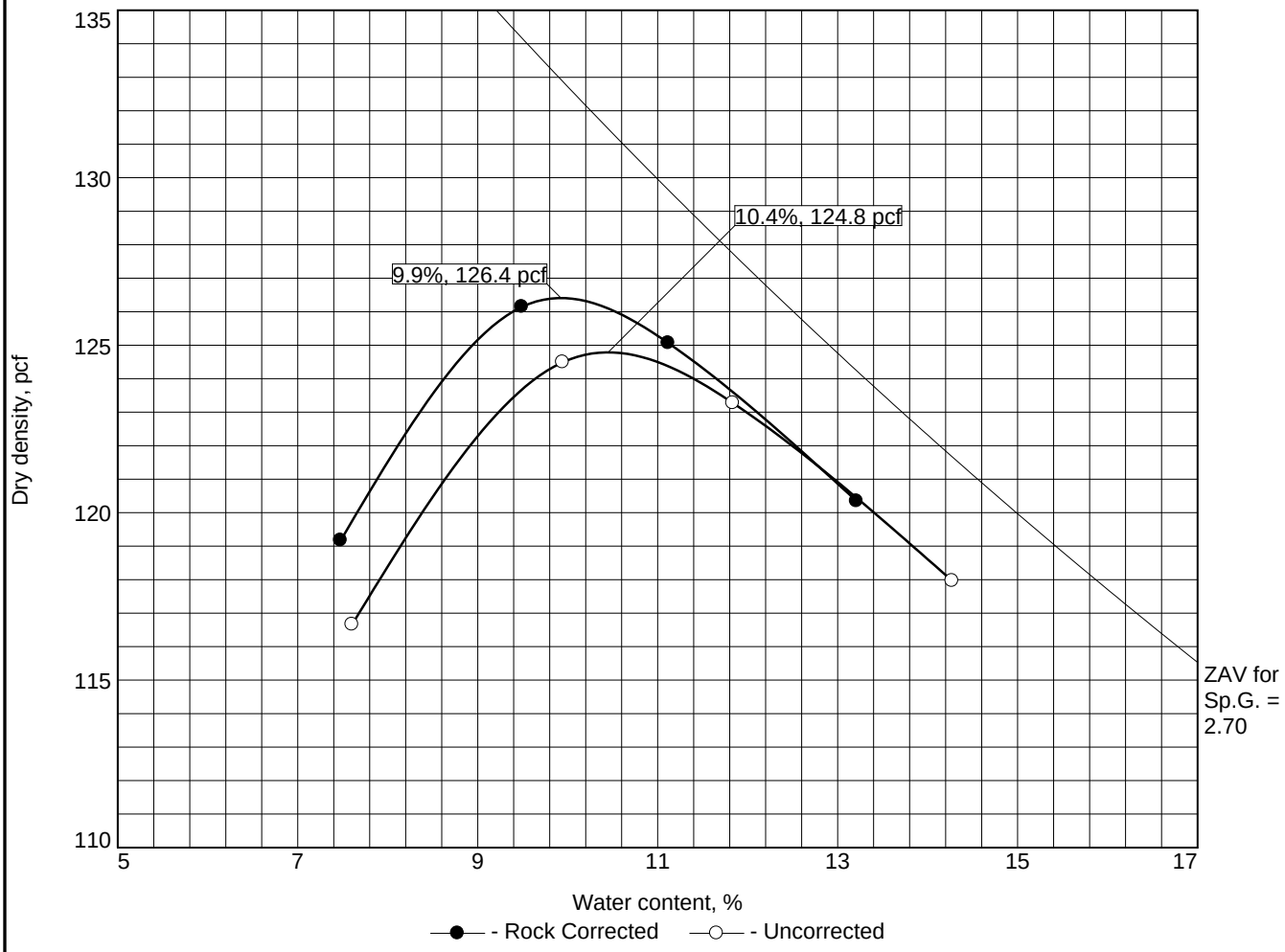
Remarks

Location: Tezak Processing Plant
Sample Number: NFSLF-114-C **Depth:** Stockpile **Date:** 10/26/2019

NewFields

Client: CC&V Gold Mining Company
Project: VLF Phase 2B
Project No: 475.0106.032 **Figure** NFSLF-114-C

Tested By: AR **Checked By:** JH



Test specification: ASTM D 1557-12 Method B Modified
ASTM D4718-15 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/8 in.	% < No.200
	USCS	AASHTO						
	SC	A-2-6(3)		2.70	37	23	14.0	35.2

ROCK CORRECTED TEST RESULTS	UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 126.4 pcf	124.8 pcf	Red clayey sand with gravel
Optimum moisture = 9.9 %	10.4 %	

Project No. 475.0106.032 **Client:** Newmont-Cripple Creek & Victor Gold Mine
Project: VLF 2 Phase 2B
Date: 12/9/2019
○ **Location:** Tezak Processing Plant **Sample Number:** NFSLF-114-C

Remarks:
*Assumed Specific Gravity

NewFields

Figure 19-415-03

Tested By: KS **Checked By:** JH

NewFields

Flexible Wall Hydraulic Conductivity
ASTM D5084

Client:	CC & V Gold Mining Company	Lab Sample No.:	NFSLF-114-C
Project:	VLF	Field Sample No.:	NFSLF-114-C
Project No.:	475.0106.032	Location:	Tezak Processing Plant
Phase:	2A	Elevation/Depth:	Stockpile
Requested By:	JM	Tested By:	TW
Test Started:	12/6/2019	Checked By:	TW
Test Finished:	12/9/2019	Sample Description:	Red clayey sand with gravel

Test Boundary Conditions	
Type of Permeant	De-aired Bottled
Magnitude of Back pressure (psi)	50
Saturated (Y/N):	Yes
Stage 1: Effective Stress (psi)	5
Sample Type	Remolded
Burrete Area (cm^2)	0.877

Test Specimen Data	Initial	During k Testing	Final
Wet Soil + Tare (g)	644.1		658.60
Dry Soil + Tare (g)	584.64		598.00
Tare (g)	0.00		119.00
Wt. of Water (g)	59.46		60.60
Dry Soil (g)	584.64		479.00
Moisture Content (%)	10.2		12.7
Sample Volume (ft^3)	0.01076	0.01072	
Dry Density (pcf)	120.1	120.3	
Wet Density (pcf)	132.0	138.2	
Saturation (%)	66.4	100.0	
Percent Compaction	95.0	95.1	
Height (in)	3.032	3.030	
Diameter (in)	2.794	2.792	
Area (in^2)	6.130	6.122	
Est. Moisture Content after Consolidation (%)		14.8%	
Est. Void Ratio after Consolidation		0.400	
Specific Gravity*	2.70		

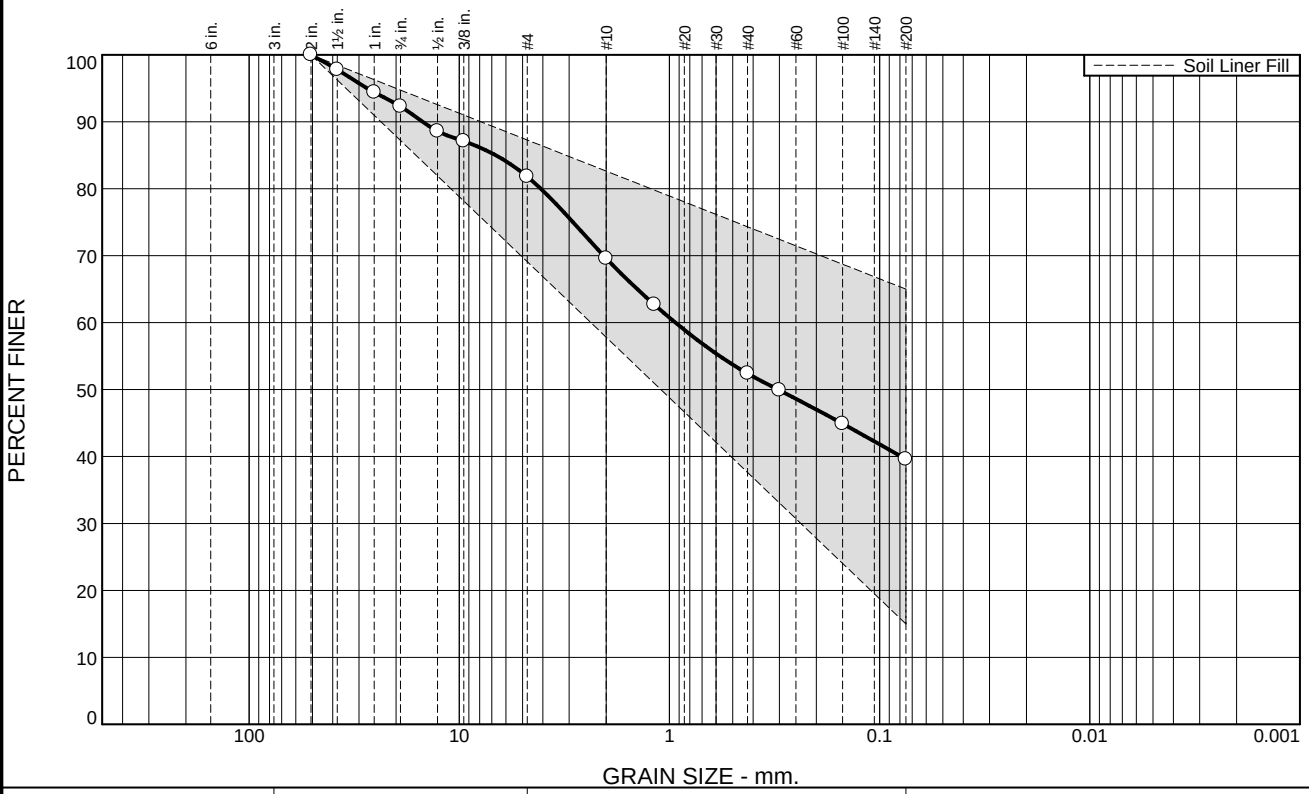
*Specific gravity is assumed

Maximum Dry Density:
ASTM D 698

Maximum Dry Density (pcf):	126.4
Initial Remolded Dry Density (pcf):	120.1
Initial Percent Compaction:	95%
Initial Void Ratio:	0.402
Optimum Moisture Content(%):	9.9
Initial Water Content (%):	10.2
Confining Pressure (psi):	5.0
Hydraulic Conductivity, k_{20} (cm/s):	**3.5E-07**
Gradient Range (h/L):	4.7 4.7

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	7.7	10.5	12.2	17.2	12.8	39.6	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2"	100.0	100.0	
1.5"	97.8		
1"	94.4		
3/4"	92.3		
1/2"	88.6		
3/8"	87.1		
#4	81.8		
#10	69.6		
#16	62.7		
#40	52.4		
#50	49.9		
#100	44.9		
#200	39.6	15.0 - 65.0	

* Soil Liner Fill

Material Description

Brown clayey sand with gravel

Atterberg Limits

PL= 15 LL= 35 PI= 20

Coefficients

D_{90}= 14.9506 D_{85}= 6.7077 D_{60}= 0.9362
D_{50}= 0.3043 D_{30}= D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= SC AASHTO= A-6(3)

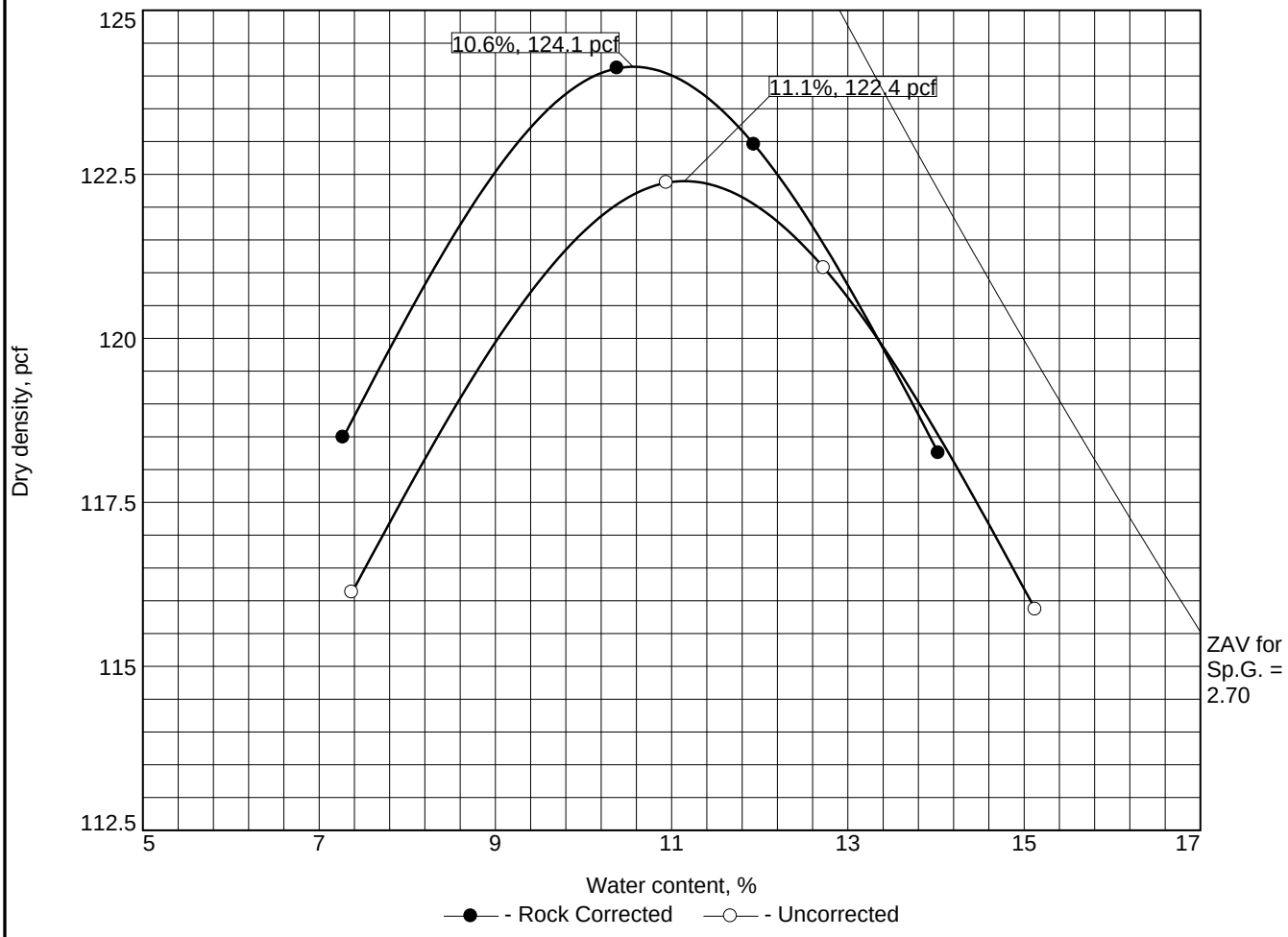
Remarks

Location: Tezak Processing Plant
Sample Number: NFSLF-115-C **Depth:** Stockpile **Date:** 10/26/2019

NewFields

Client: CC&V Gold Mining Company
Project: VLF Phase 2B
Project No: 475.0106.032 **Figure** NFSLF-115-C

Tested By: AR **Checked By:** JH



Test specification: ASTM D 1557-12 Method B Modified
ASTM D4718-15 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/8 in.	% < No.200
	USCS	AASHTO						
	SC	A-6(3)		2.70	35	20	12.9	39.6

ROCK CORRECTED TEST RESULTS	UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 124.1 pcf	122.4 pcf	Brown clayey sand with gravel
Optimum moisture = 10.6 %	11.1 %	

Project No. 475.0106.032 **Client:** Newmont-Cripple Creek & Victor Gold Mine
Project: VLF 2 Phase 2B
Date: 12/9/2019
○ **Location:** Tezak Processing Plant **Sample Number:** NFSLF-115-C

Remarks:
*Assumed Specific Gravity

NewFields

Figure 19-415-04

Tested By: KS **Checked By:** JH

NewFields

Flexible Wall Hydraulic Conductivity
ASTM D5084

Client:	CC & V Gold Mining Company	Lab Sample No.:	NFSLF-115-C
Project:	VLF	Field Sample No.:	NFSLF-115-C
Project No.:	475.0106.032	Location:	Tezak Processing Plant
Phase:	2A	Elevation/Depth:	Stockpile
Requested By:	JM	Tested By:	TW
Test Started:	12/6/2019	Checked By:	TW
Test Finished:	12/10/2019	Sample Description:	Brown clayey sand with gravel

Test Boundary Conditions	
Type of Permeant	De-aired Bottled
Magnitude of Back pressure (psi)	50
Saturated (Y/N):	Yes
Stage 1: Effective Stress (psi)	5
Sample Type	Remolded
Burrete Area (cm^2)	0.877

Test Specimen Data	Initial	During k Testing	Final
Wet Soil + Tare (g)	634.9		705.30
Dry Soil + Tare (g)	576.20		634.20
Tare (g)	0.00		119.00
Wt. of Water (g)	58.70		71.10
Dry Soil (g)	576.20		515.20
Moisture Content (%)	10.2		13.8
Sample Volume (ft^3)	0.01074	0.01068	
Dry Density (pcf)	117.8	118.1	
Wet Density (pcf)	130.3	136.9	
Saturation (%)	66.6	100.0	
Percent Compaction	95.0	95.2	
Height (in)	3.030	3.026	
Diameter (in)	2.793	2.789	
Area (in^2)	6.125	6.109	
Est. Moisture Content after Consolidation (%)		15.7%	
Est. Void Ratio after Consolidation		0.425	
Specific Gravity*	2.70		

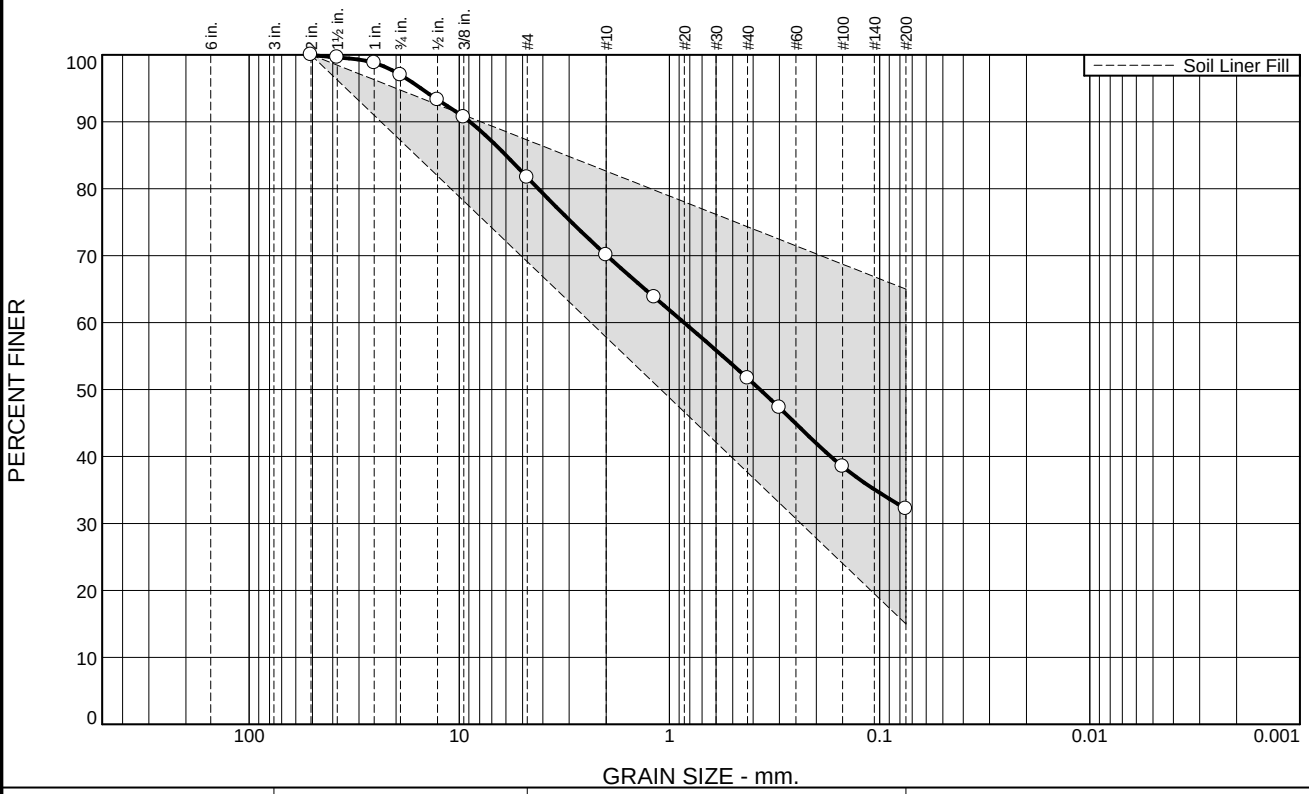
*Specific gravity is assumed

Maximum Dry Density:
ASTM D 698

Maximum Dry Density (pcf):	124.1
Initial Remolded Dry Density (pcf):	117.8
Initial Percent Compaction:	95%
Initial Void Ratio:	0.430
Optimum Moisture Content(%):	10.6
Initial Water Content (%):	10.2
Confining Pressure (psi):	5.0
Hydraulic Conductivity, k_{20} (cm/s):	**2.7E-07**
Gradient Range (h/L):	4.7 4.7

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	3.0	15.3	11.6	18.4	19.5	32.2	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2"	100.0	100.0	
1.5"	99.6		
1"	98.8		
3/4"	97.0		
1/2"	93.3		
3/8"	90.7		
#4	81.7		
#10	70.1		
#16	63.8		
#40	51.7		
#50	47.3		
#100	38.5		
#200	32.2	15.0 - 65.0	

* Soil Liner Fill

Material Description

Brown clayey sand with gravel

Atterberg Limits

PL= 15 LL= 42 PI= 27

Coefficients

D_{90}= 8.9072 D_{85}= 5.9991 D_{60}= 0.8520
D_{50}= 0.3706 D_{30}= D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= SC AASHTO= A-2-7(3)

Remarks

Location: Tezak Processing Plant
Sample Number: NFSLF-116-C **Depth:** Stockpile **Date:** 12/05/2019

NewFields

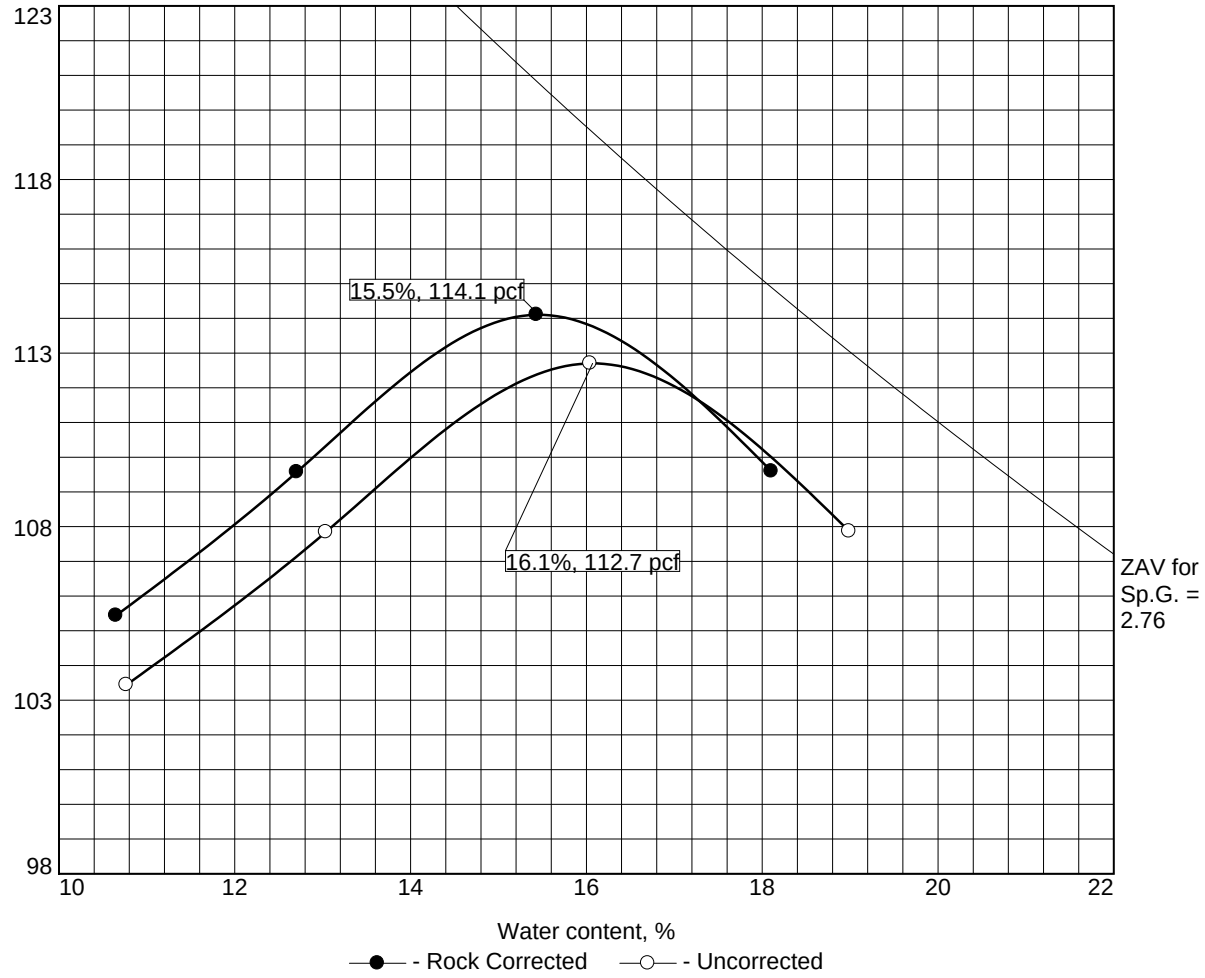
Client: CC&V Gold Mining Company
Project: VLF Phase 2B

Project No: 475.0106.032 **Figure** NFSLF-116-C

Tested By: AR **Checked By:** KS

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

COMPACTION TEST REPORT



Test specification: ASTM D 698-12 Method B Standard
ASTM D4718-15 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/8 in.	% < No.200
	USCS	AASHTO						
	SC	A-2-7(3)		2.76	42	27	9.3	32.2

ROCK CORRECTED TEST RESULTS	UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 114.1 pcf	112.7 pcf	Brown clayey sand with gravel
Optimum moisture = 15.5 %	16.1 %	

Project No. 475.0106.032 **Client:** Newmont-Cripple Creek & Victor Gold Mine
Project: VLF 2 Phase 2B
Date: 12-20-19
Location: SLF-116-C **Sample Number:** 19-426-01

Remarks:

NewFields

Figure 19-426-01

Tested By: AR **Checked By:** KS

NewFields

Flexible Wall Hydraulic Conductivity
ASTM D5084

Client:	CC & V Gold Mining Company	Lab Sample No.:	NFSLF-116-C
Project:	VLF	Field Sample No.:	NFSLF-116-C
Project No.:	475.0106.032	Location:	Tezak Processing Plant
Phase:	2A	Elevation/Depth:	Stockpile
Requested By:	JM	Tested By:	TW
Test Started:	2/8/2020	Checked By:	TW
Test Finished:	2/12/2020	Sample Description:	Brown clayey sand with gravel

Test Boundary Conditions	
Type of Permeant	De-aired Bottled
Magnitude of Back pressure (psi)	50
Saturated (Y/N):	Yes
Stage 1: Effective Stress (psi)	5
Sample Type	Remolded
Burrete Area (cm^2)	0.877

Test Specimen Data	Initial	During k Testing	Final
Wet Soil + Tare (g)	605.22		748.20
Dry Soil + Tare (g)	528.33		655.10
Tare (g)	0.00		119.00
Wt. of Water (g)	76.89		93.10
Dry Soil (g)	528.33		536.10
Moisture Content (%)	14.6		17.4
Sample Volume (ft^3)	0.01073	0.01066	
Dry Density (pcf)	108.6	108.9	
Wet Density (pcf)	124.4	131.2	
Saturation (%)	71.1	100.0	
Percent Compaction	95.2	95.5	
Height (in)	3.029	3.024	
Diameter (in)	2.791	2.787	
Area (in^2)	6.119	6.099	
Est. Moisture Content after Consolidation (%)		20.1%	
Est. Void Ratio after Consolidation		0.544	
Specific Gravity*	2.70		

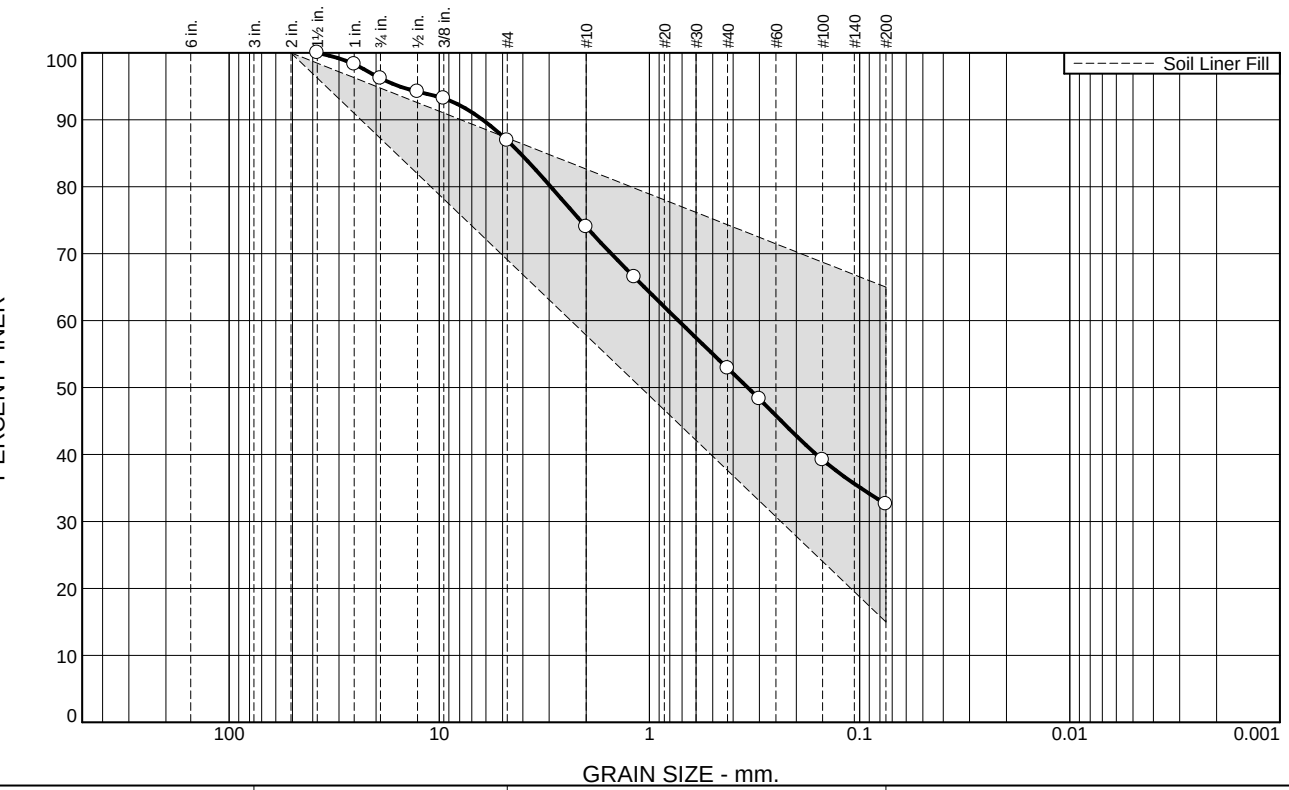
*Specific gravity is assumed

Maximum Dry Density:
ASTM D 698

Maximum Dry Density (pcf):	114.1	
Initial Remolded Dry Density (pcf):	108.6	
Initial Percent Compaction:	95%	
Initial Void Ratio:	0.551	
Optimum Moisture Content(%):	14.5	
Initial Water Content (%):	14.6	
Confining Pressure (psi):	5.0	
Hydraulic Conductivity, k_{20} (cm/s):	**2.4E-07**	
Gradient Range (h/L):	4.7	4.7

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	3.8	9.3	12.9	21.1	20.3	32.6	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1.5"	100.0		
1"	98.3		
3/4"	96.2		
1/2"	94.2		
3/8"	93.2		
#4	86.9		
#10	74.0		
#16	66.5		
#40	52.9		
#50	48.3		
#100	39.2		
#200	32.6	15.0 - 65.0	

* Soil Liner Fill

Material Description

Brown clayey sand

Atterberg Limits

PL= 15 LL= 39 PI= 24

Coefficients

D_{90}= 6.2120 D_{85}= 4.1251 D_{60}= 0.7285
D_{50}= 0.3407 D_{30}= D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= SC AASHTO= A-2-6(3)

Remarks

Location: Tezak Processing Plant
Sample Number: NFSLF-117-C **Depth:** Stockpile **Date:** 12/05/2019

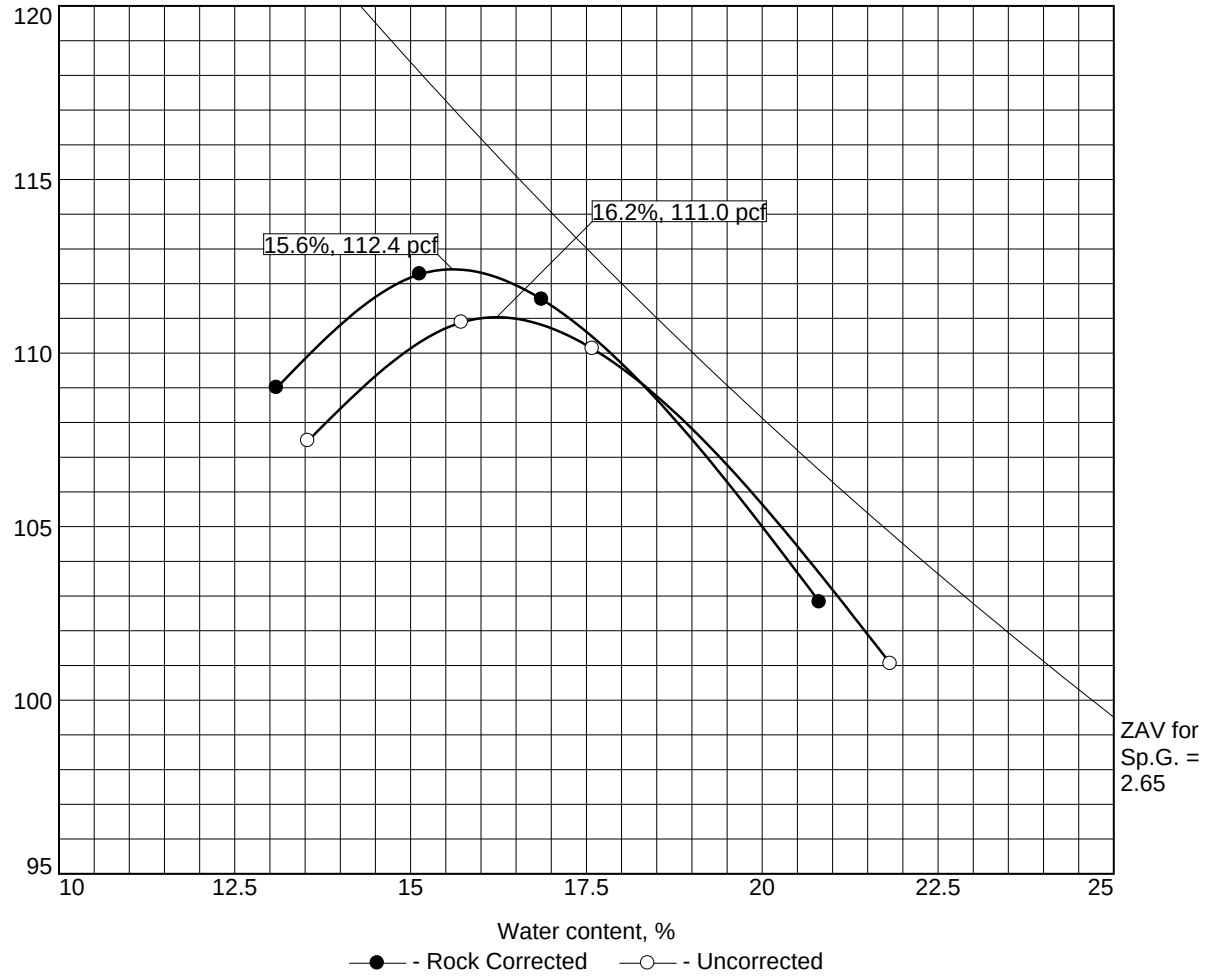
NewFields

Client: CC&V Gold Mining Company
Project: VLF Phase 2B
Project No: 475.0106.032 **Figure** NFSLF-117-C

Tested By: AR **Checked By:** KS

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

COMPACTION TEST REPORT



Test specification: ASTM D 698-12 Method B Standard
ASTM D4718-15 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/8 in.	% < No.200
	USCS	AASHTO						
	SC	A-2-6(3)		2.65	39	24	6.8	32.6

ROCK CORRECTED TEST RESULTS	UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 112.4 pcf	111.0 pcf	Brown clayey sand
Optimum moisture = 15.6 %	16.2 %	

Project No. 475.0106.032 **Client:** Newmont-Cripple Creek & Victor Gold Mine
Project: VLF 2 Phase 2B
Date: 12/20/
Location: SLF-117-C **Sample Number:** 19-426-02

Remarks:

NewFields

Figure 19-426-02

Tested By: KG **Checked By:** KS

NewFields

Flexible Wall Hydraulic Conductivity
ASTM D5084

Client:	CC & V Gold Mining Company	Lab Sample No.:	NFSLF-117-C
Project:	VLF	Field Sample No.:	NFSLF-117-C
Project No.:	475.0106.032	Location:	Tezak Processing Plant
Phase:	2A	Elevation/Depth:	Stockpile
Requested By:	JM	Tested By:	TW
Test Started:	2/8/2020	Checked By:	TW
Test Finished:	2/12/2020	Sample Description:	Brown clayey sand

Test Boundary Conditions	
Type of Permeant	De-aired Bottled
Magnitude of Back pressure (psi)	50
Saturated (Y/N):	Yes
Stage 1: Effective Stress (psi)	5
Sample Type	Remolded
Burrete Area (cm^2)	0.877

Test Specimen Data	Initial	During k Testing	Final
Wet Soil + Tare (g)	601.95		821.40
Dry Soil + Tare (g)	520.90		718.50
Tare (g)	0.00		119.00
Wt. of Water (g)	81.05		102.90
Dry Soil (g)	520.90		599.50
Moisture Content (%)	15.6		17.2
Sample Volume (ft^3)	0.01073	0.01066	
Dry Density (pcf)	107.0	107.3	
Wet Density (pcf)	123.7	130.2	
Saturation (%)	73.3	100.0	
Percent Compaction	95.2	95.5	
Height (in)	3.029	3.024	
Diameter (in)	2.791	2.786	
Area (in^2)	6.119	6.098	
Est. Moisture Content after Consolidation (%)		21.0%	
Est. Void Ratio after Consolidation		0.567	
Specific Gravity*	2.70		

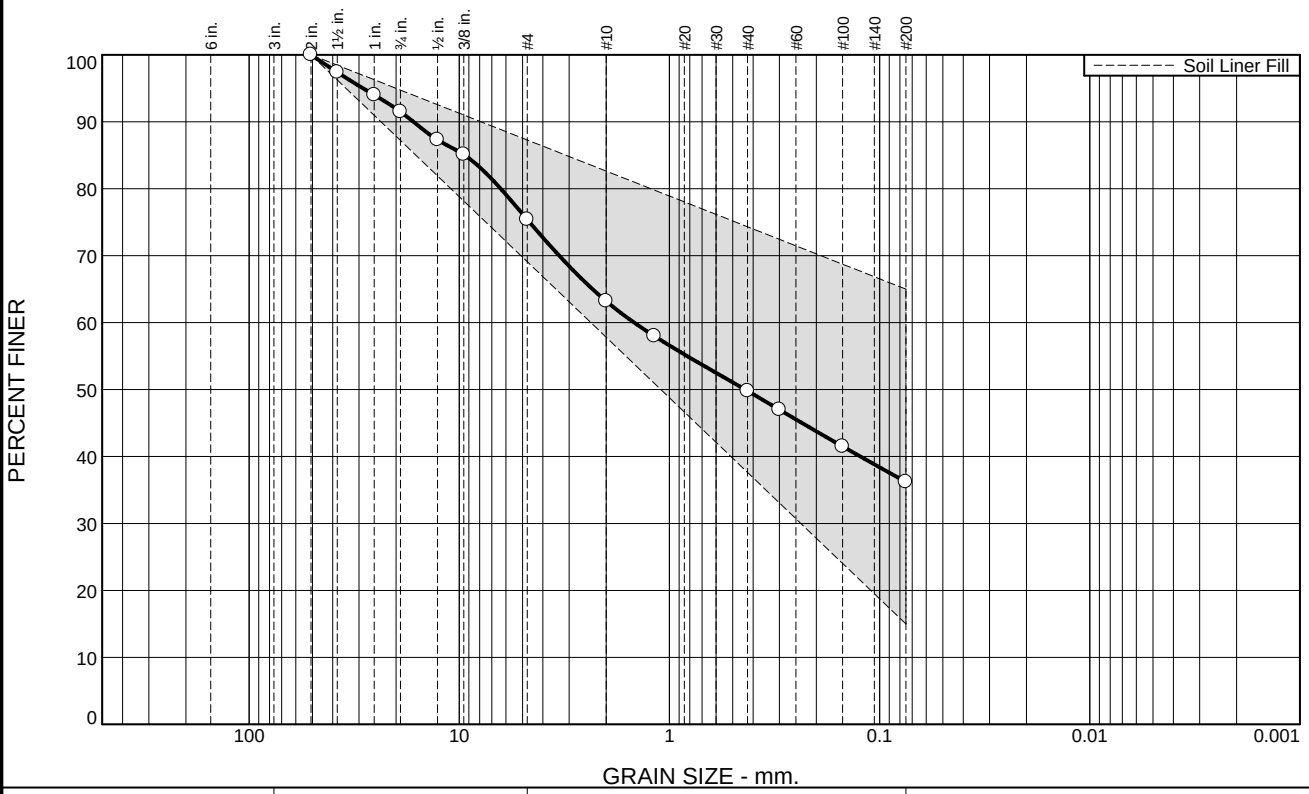
*Specific gravity is assumed

Maximum Dry Density:
ASTM D 698

Maximum Dry Density (pcf):	112.4	
Initial Remolded Dry Density (pcf):	107.0	
Initial Percent Compaction:	95%	
Initial Void Ratio:	0.574	
Optimum Moisture Content(%):	15.6	
Initial Water Content (%):	15.6	
Confining Pressure (psi):	5.0	
Hydraulic Conductivity, k_{20} (cm/s):	**1.8E-07**	
Gradient Range (h/L):	4.7	4.7

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	8.5	16.1	12.2	13.4	13.6	36.2	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2"	100.0	100.0	
1.5"	97.4		
1"	94.0		
3/4"	91.5		
1/2"	87.3		
3/8"	85.1		
#4	75.4		
#10	63.2		
#16	58.0		
#40	49.8		
#50	47.0		
#100	41.5		
#200	36.2	15.0 - 65.0	

* Soil Liner Fill

Material Description

Dark brown clayey sand with gravel

Atterberg Limits

PL= 15 LL= 45 PI= 30

Coefficients

D_{90}= 16.5368 D_{85}= 9.4199 D_{60}= 1.4707
D_{50}= 0.4359 D_{30}= D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= SC AASHTO= A-7-6(4)

Remarks

Location: Tezak Processing Plant
Sample Number: NFSLF-118-C **Depth:** Stockpile **Date:** 02/05/2020

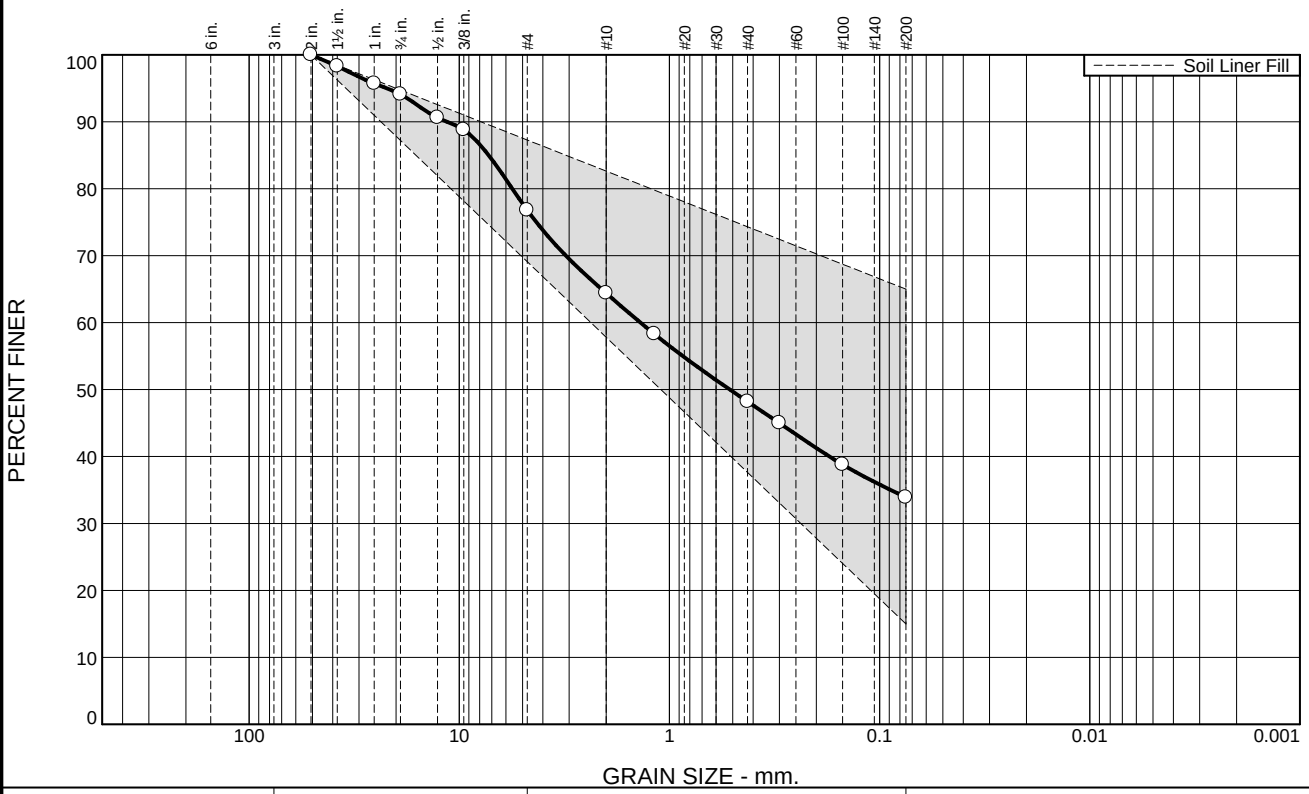
NewFields

Client: CC&V Gold Mining Company
Project: VLF Phase 2B
Project No: 475.0106.032 **Figure** NFSLF-118-C

Tested By: AR **Checked By:** JH

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	5.9	17.3	12.4	16.2	14.3	33.9	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2"	100.0	100.0	
1.5"	98.3		
1"	95.7		
3/4"	94.1		
1/2"	90.6		
3/8"	88.8		
#4	76.8		
#10	64.4		
#16	58.3		
#40	48.2		
#50	45.0		
#100	38.8		
#200	33.9	15.0 - 65.0	

* Soil Liner Fill

Material Description

Dark brown clayey sand with gravel

Atterberg Limits

PL= 15 LL= 45 PI= 30

Coefficients

D_{90}= 11.4475 D_{85}= 7.2454 D_{60}= 1.3737
D_{50}= 0.5160 D_{30}= D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= SC AASHTO= A-2-7(4)

Remarks

Location: Tezak Processing Plant
Sample Number: NFSLF-119-C **Depth:** Stockpile **Date:** 02/05/2020

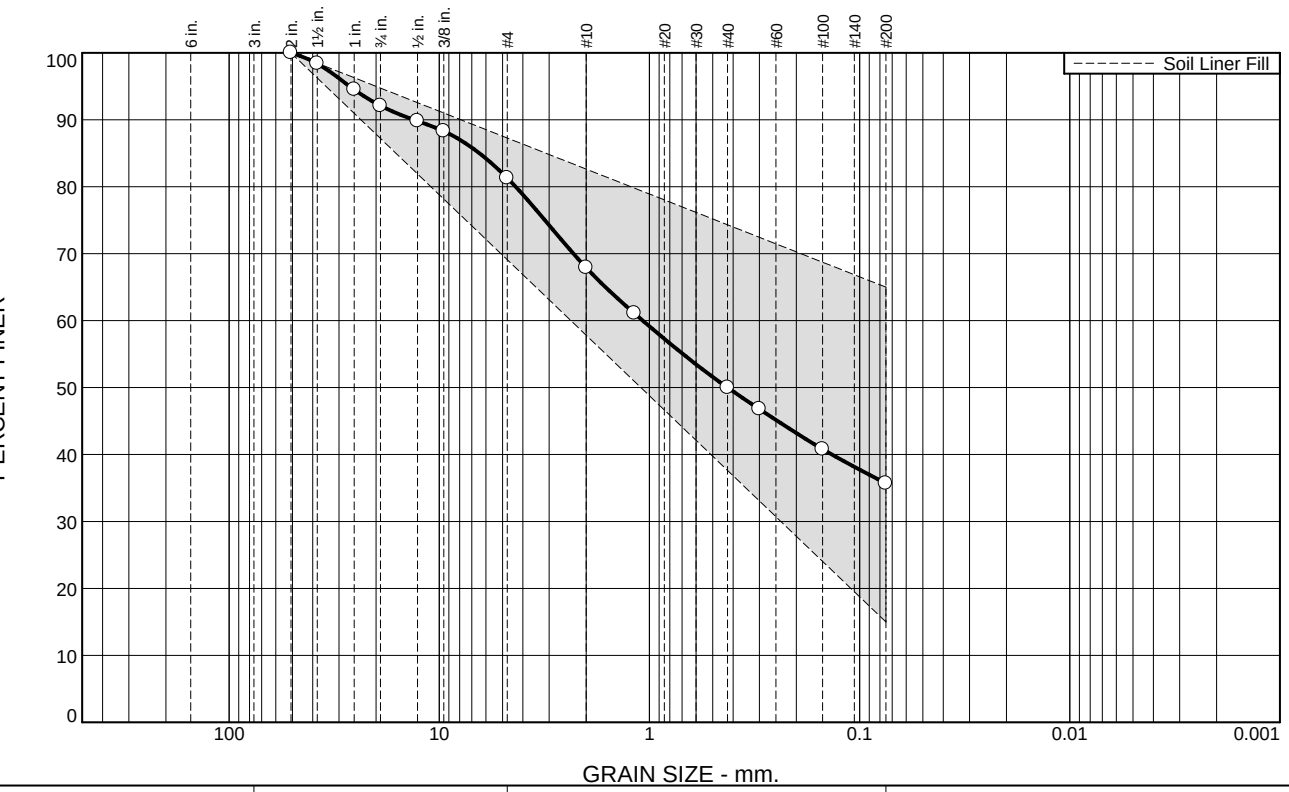
NewFields

Client: CC&V Gold Mining Company
Project: VLF Phase 2B
Project No: 475.0106.032 **Figure** NFSLF-119-C

Tested By: AR **Checked By:** JH

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	7.9	10.8	13.4	17.9	14.3	35.7	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2"	100.0	100.0	
1.5"	98.4		
1"	94.5		
3/4"	92.1		
1/2"	89.8		
3/8"	88.3		
#4	81.3		
#10	67.9		
#16	61.1		
#40	50.0		
#50	46.8		
#100	40.8		
#200	35.7	15.0 - 65.0	

* Soil Liner Fill

Material Description

Dark brown clayey sand with gravel

Atterberg Limits

PL= 15 LL= 42 PI= 27

Coefficients

D_{90}= 13.2324 D_{85}= 6.4363 D_{60}= 1.0751
D_{50}= 0.4250 D_{30}= D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= SC AASHTO= A-7-6(4)

Remarks

Location: Tezak Processing Plant
Sample Number: NFSLF-120-C **Depth:** Stockpile **Date:** 02/05/2020

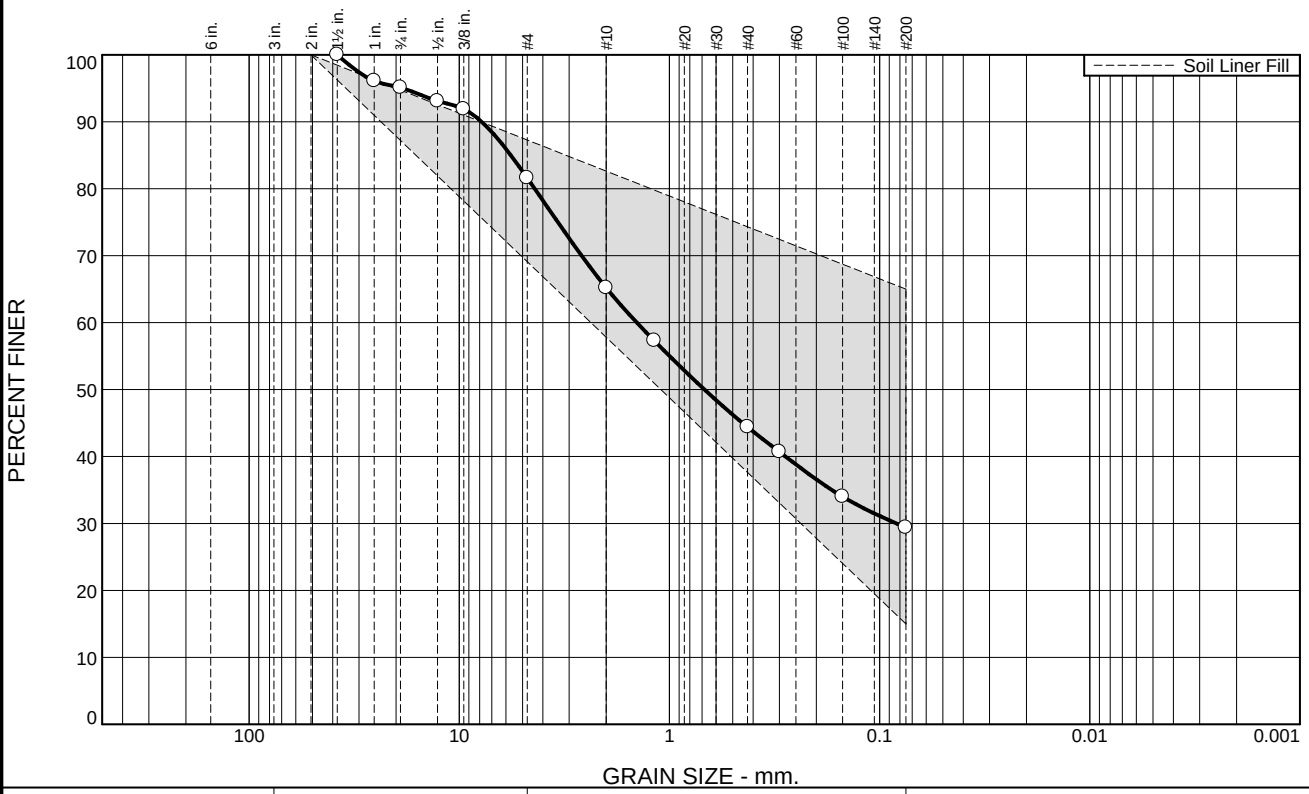
NewFields

Client: CC&V Gold Mining Company
Project: VLF Phase 2B
Project No: 475.0106.032 **Figure** NFSLF-120-C

Tested By: AR **Checked By:** JH

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	4.9	13.5	16.4	20.8	15.0	29.4	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1.5"	100.0		
1"	96.1		
3/4"	95.1		
1/2"	93.1		
3/8"	91.9		
#4	81.6		
#10	65.2		
#16	57.3		
#40	44.4		
#50	40.7		
#100	34.0		
#200	29.4	15.0 - 65.0	

* Soil Liner Fill

Material Description

Red clayey sand with gravel

Atterberg Limits

PL= 18 LL= 40 PI= 22

Coefficients

D_{90}= 7.8268 D_{85}= 5.6865 D_{60}= 1.4288
D_{50}= 0.6812 D_{30}= 0.0830 D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= SC AASHTO= A-2-6(2)

Remarks

Location: Tezak Processing Plant
Sample Number: NFSLF-121-C **Depth:** Stockpile **Date:** 02/24/2020

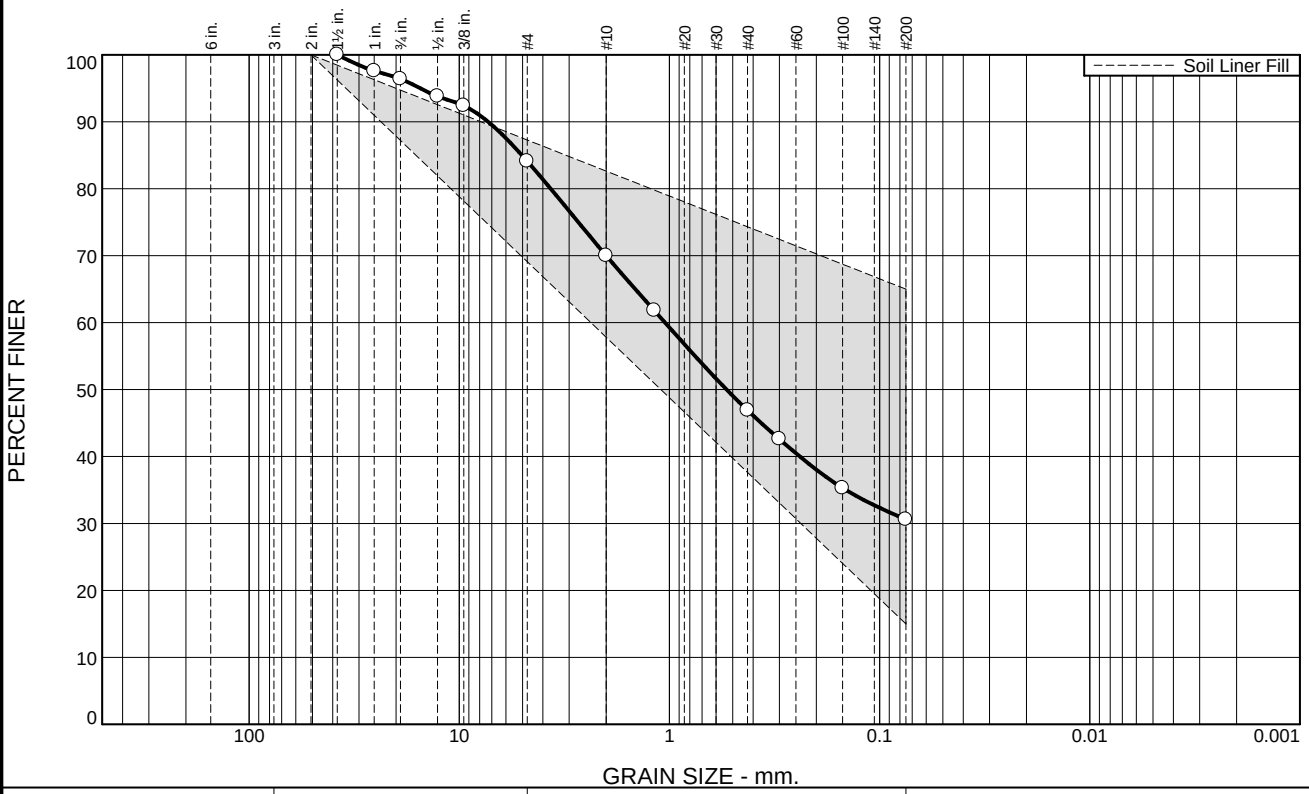
NewFields

Client: CC&V Gold Mining Company
Project: VLF Phase 2B
Project No: 475.0106.032 **Figure** NFSLF-121-C

Tested By: KS/AR **Checked By:** JH

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	3.6	12.3	14.1	23.1	16.3	30.6	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1.5"	100.0		
1"	97.6		
3/4"	96.4		
1/2"	93.8		
3/8"	92.4		
#4	84.1		
#10	70.0		
#16	61.8		
#40	46.9		
#50	42.6		
#100	35.3		
#200	30.6	15.0 - 65.0	

* Soil Liner Fill

Material Description

Red clayey sand with gravel

Atterberg Limits

PL= 18 LL= 40 PI= 22

Coefficients

D_{90}= 7.2813 D_{85}= 5.0364 D_{60}= 1.0492
D_{50}= 0.5346 D_{30}= D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= SC AASHTO= A-2-6(2)

Remarks

Location: Tezak Processing Plant
Sample Number: NFSLF-122-C **Depth:** Stockpile **Date:** 02/24/2020

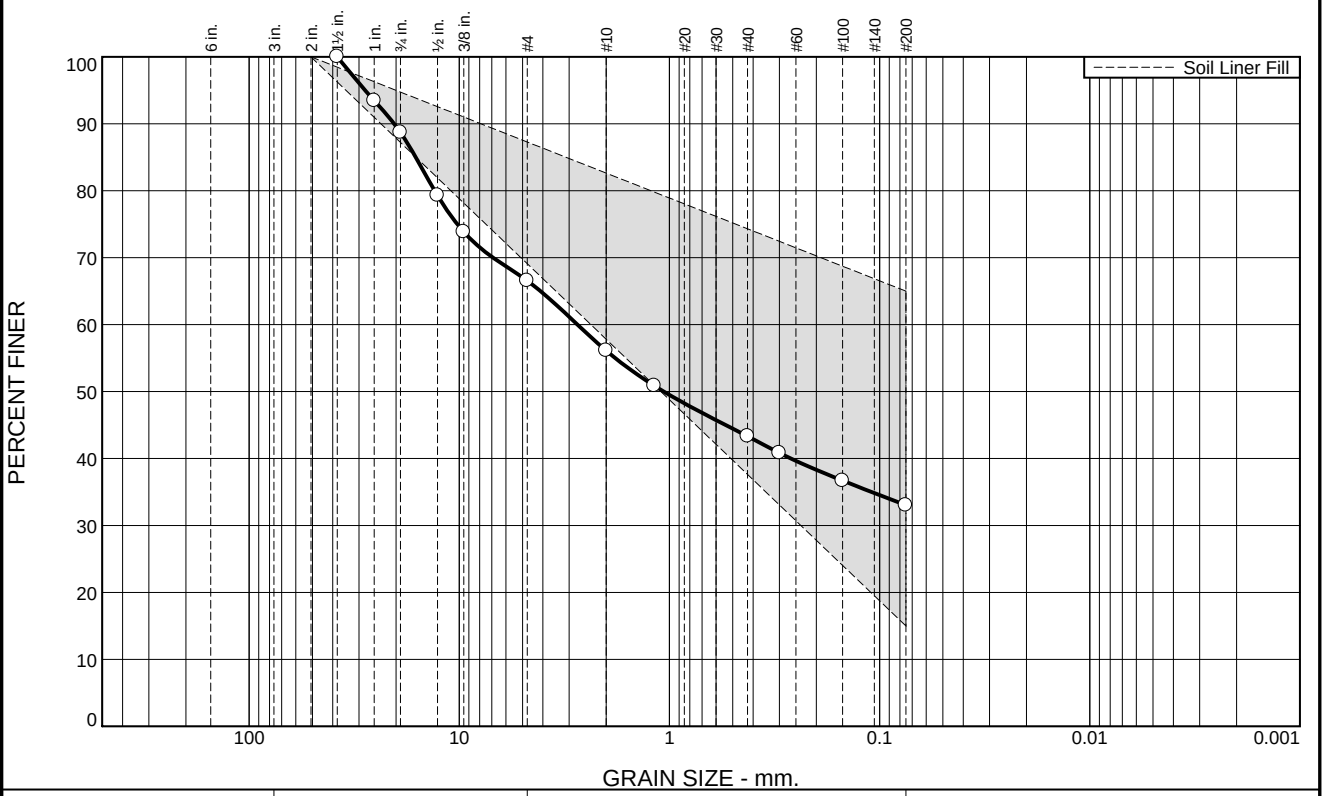
NewFields

Client: CC&V Gold Mining Company
Project: VLF Phase 2B
Project No: 475.0106.032 **Figure** NFSLF-122-C

Tested By: KS **Checked By:** JH

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	11.3	22.1	10.5	12.8	10.3	33.0	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1.5"	100.0		
1"	93.5		
3/4"	88.7		
1/2"	79.3		
3/8"	73.9		
#4	66.6		
#10	56.1		
#16	50.9		
#40	43.3		
#50	40.8		
#100	36.7		
#200	33.0	15.0 - 65.0	

* Soil Liner Fill

Material Description

Brown clayey sand with gravel

Atterberg Limits

PL= 13 LL= 34 PI= 21

Coefficients

D_{90}= 20.4080 D_{85}= 16.1198 D_{60}= 2.7393
D_{50}= 1.0634 D_{30}= D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= SC AASHTO= A-2-6(2)

Remarks

Location: Tezak Processing Plant
Sample Number: NFSLF-123-C **Depth:** Stockpile **Date:** 04/17/2020

NewFields

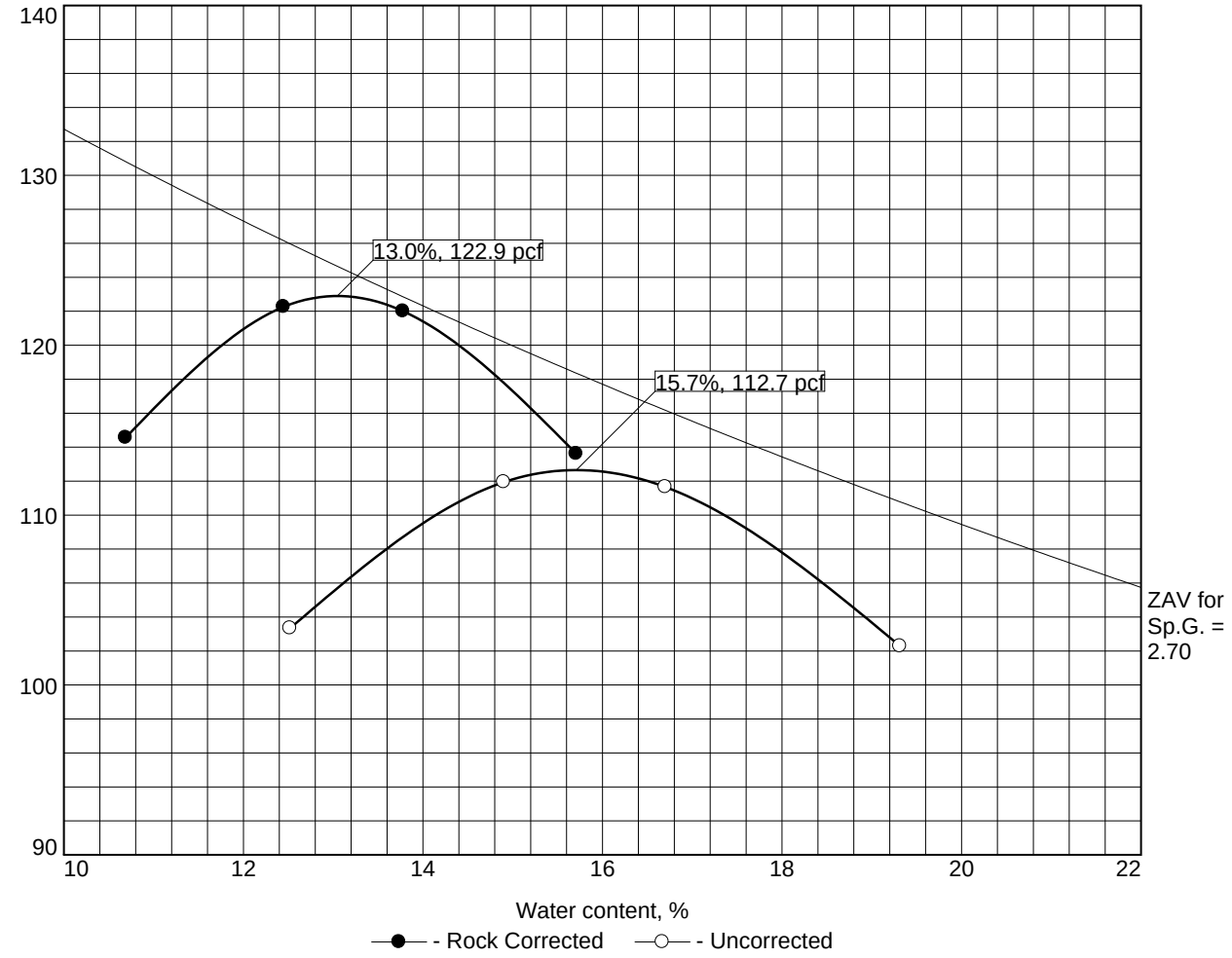
Client: CC&V Gold Mining Company
Project: VLF Phase 2B

Project No: 475.0106.032 **Figure** NFSLF-123-C

Tested By: TW **Checked By:** TW

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

COMPACTION TEST REPORT



Test specification: ASTM D 698-12 Method B Standard
ASTM D4718-15 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/8 in.	% < No.200
	USCS	AASHTO						
Stockpile	SC	A-2-6(2)	12.1	2.65	34	21	26.1	33.0

ROCK CORRECTED TEST RESULTS	UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 122.9 pcf	112.7 pcf	Brown clayey sand with gravel
Optimum moisture = 13.0 %	15.7 %	

Project No. 475.0106.032 **Client:** CC&V Gold Mining Company
Project: VLF Phase 2B

○**Location:** Tezak Processing Plant **Sample Number:** NFSLF-123-C

NewFields

Remarks:

Figure NFSLF123-C

Tested By: TW **Checked By:** TW

NewFields

Flexible Wall Hydraulic Conductivity
ASTM D5084

Client:	Cripple Crrek and Victor Gold Mines	Lab Sample No.:	NFSLF-123-C
Project:	Squaw Gulch VLF PH2A		
Project No.:	475.0106.032	Location:	Tezak Processing Plant
Phase:	2	Elevation/Depth:	Stockpile
Requested By:	JP	Tested By:	TW
Test Started:	4/25/2020	Checked By:	TW
Test Finished:	4/29/2020	Sample Description:	Brown clayey sand with gravel

Test Boundary Conditions	
Type of Permeant	De-aired Bottled
Magnitude of Back pressure (psi)	41
Saturated (Y/N):	Yes
Stage 1: Effective Stress (psi)	5
Sample Type	Remolded
Burrete Area (cm^2)	0.877

Test Specimen Data	Initial	During k Testing	Final
Wet Soil + Tare (g)	633.98		785.60
Dry Soil + Tare (g)	561.07		691.50
Tare (g)	0.00		119.40
Wt. of Water (g)	72.91		94.10
Dry Soil (g)	561.07		572.10
Moisture Content (%)	13.0		16.4
Sample Volume (ft^3)	0.01057	0.01057	
Dry Density (pcf)	117.0	116.9	
Wet Density (pcf)	132.2	135.2	
Saturation (%)	83.3	100.0	
Percent Compaction	95.2	95.1	
Height (in)	3.017	3.018	
Diameter (in)	2.777	2.778	
Area (in^2)	6.055	6.061	
Est. Moisture Content after Consolidation (%)		15.7%	
Est. Void Ratio after Consolidation		0.416	
Specific Gravity*	2.65		

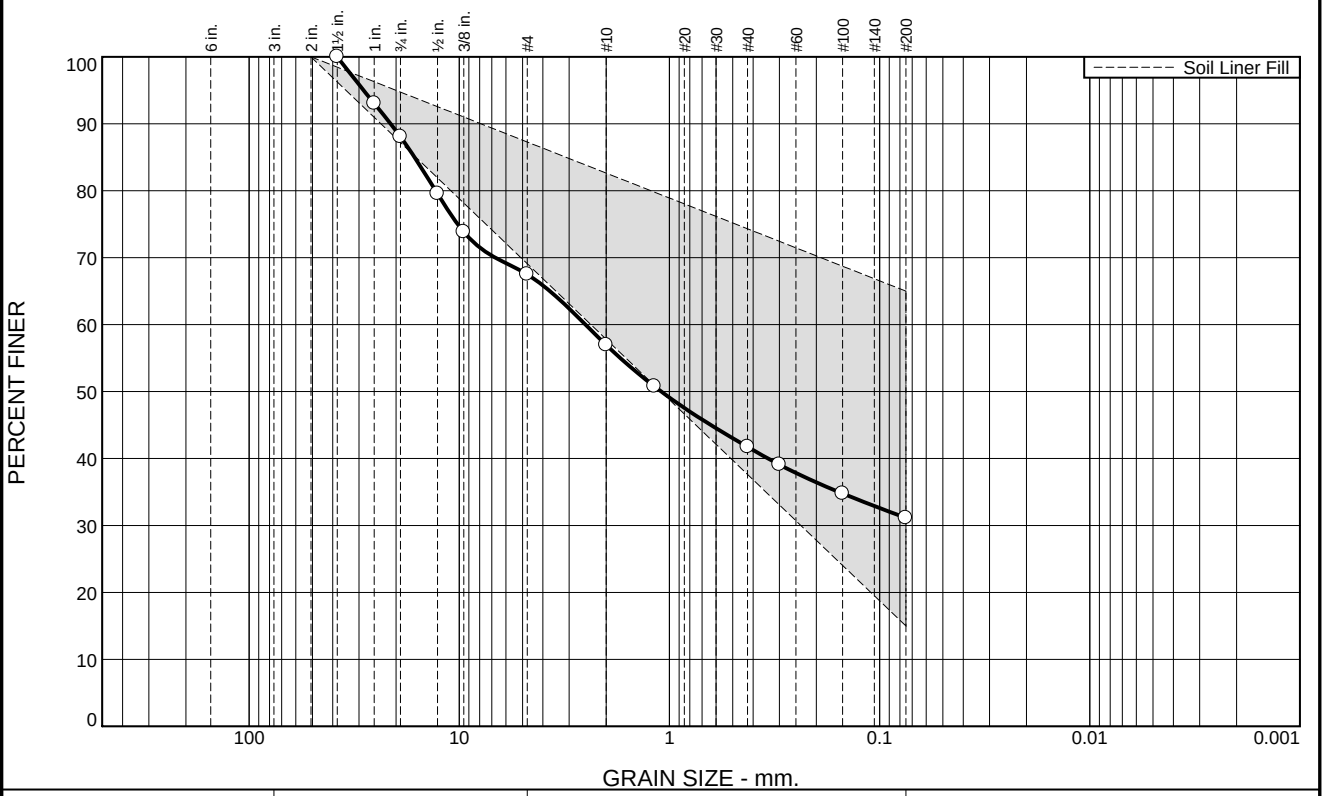
*Specific gravity is assumed

Maximum Dry Density:
ASTM D 698

Maximum Dry Density (pcf):	122.9
Initial Remolded Dry Density (pcf):	117.0
Initial Percent Compaction:	95%
Initial Void Ratio:	0.413
Optimum Moisture Content(%):	13.0
Initial Water Content (%):	13.0
Confining Pressure (psi):	5.0
Hydraulic Conductivity, k_{20} (cm/s):	**2.0E-07**
Gradient Range (h/L):	9.8 10.5

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	11.9	20.6	10.5	15.3	10.6	31.1	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1.5"	100.0		
1"	93.0		
3/4"	88.1		
1/2"	79.6		
3/8"	73.8		
#4	67.5		
#10	57.0		
#16	50.8		
#40	41.7		
#50	39.1		
#100	34.8		
#200	31.1	15.0 - 65.0	

* Soil Liner Fill

Material Description

Brown clayey sand with gravel

Atterberg Limits

PL= 14 LL= 33 PI= 19

Coefficients

D_{90}= 21.2168 D_{85}= 16.3357 D_{60}= 2.5095
D_{50}= 1.0939 D_{30}= D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= SC AASHTO= A-2-6(1)

Remarks

Location: Tezak Processing Plant
Sample Number: NFSLF-124-C **Depth:** Stockpile **Date:** 04/17/2020

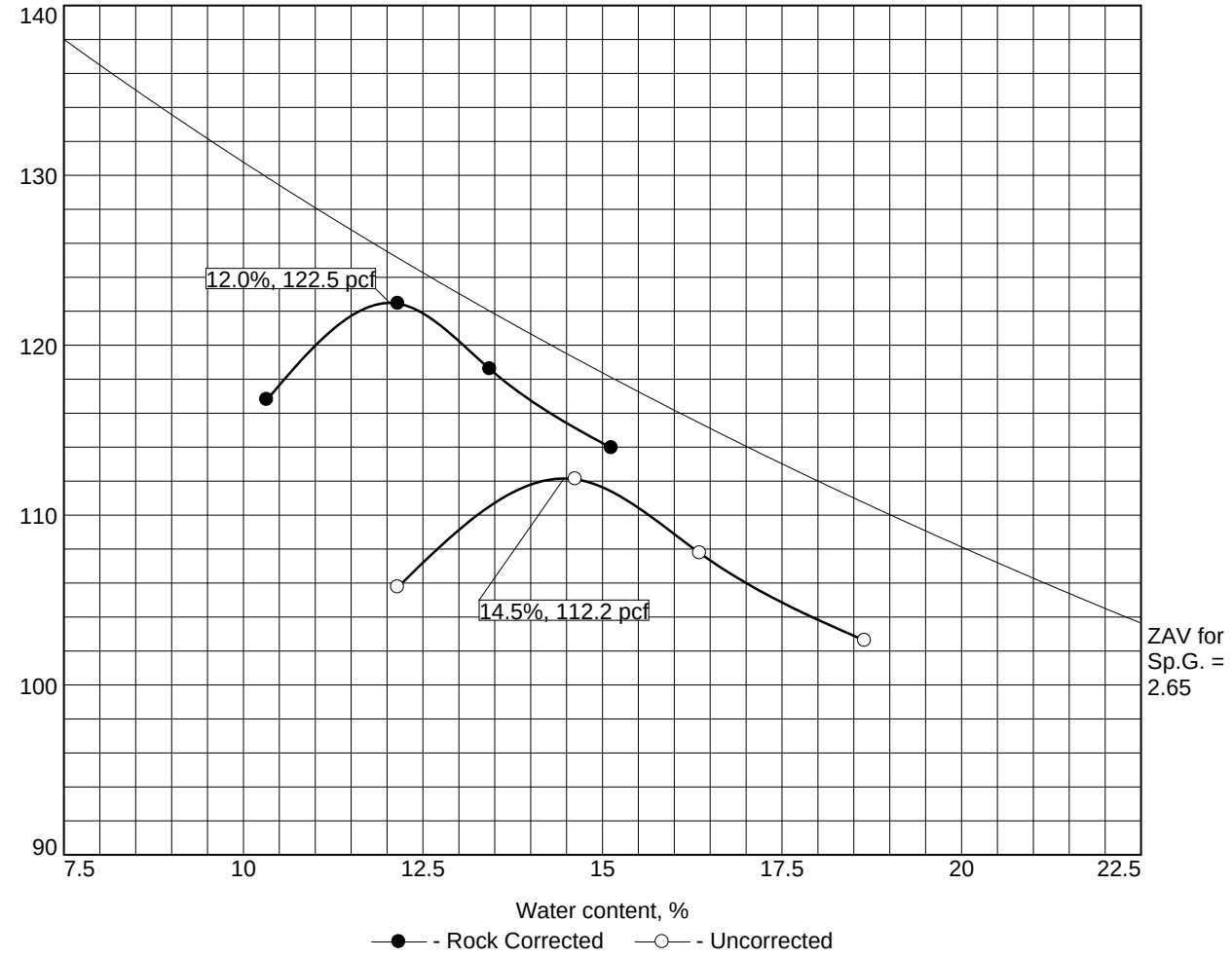
NewFields

Client: CC&V Gold Mining Company
Project: VLF Phase 2B
Project No: 475.0106.032 **Figure** NFSLF-124-C

Tested By: TW **Checked By:** TW

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

COMPACTION TEST REPORT



Test specification: ASTM D 698-12 Method B Standard
ASTM D4718-15 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/8 in.	% < No.200
	USCS	AASHTO						
Stockpile	SC	A-2-6(1)	10.6	2.65	33	19	26.2	31.1

ROCK CORRECTED TEST RESULTS	UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 122.5 pcf	112.2 pcf	Brown clayey sand with gravel
Optimum moisture = 12.0 %	14.5 %	

Project No. 475.0106.032 **Client:** CC&V Gold Mining Company
Project: VLF Phase 2B

○**Location:** Tezak Processing Plant **Sample Number:** NFSLF-124-C

NewFields

Remarks:

Figure NFSLF124-C

Tested By: TW **Checked By:** TW

NewFields

Flexible Wall Hydraulic Conductivity
ASTM D5084

Client:	Cripple Crrek and Victor Gold Mines	Lab Sample No.:	NFSLF-124-C
Project:	Squaw Gulch VLF PH2A		
Project No.:	475.0106.032	Location:	Tezak Processing Plant
Phase:	2	Elevation/Depth:	Stockpile
Requested By:	JP	Tested By:	TW
Test Started:	4/25/2020	Checked By:	TW
Test Finished:	4/29/2020	Sample Description:	Brown clayey sand with gravel

Test Boundary Conditions	
Type of Permeant	De-aired Bottled
Magnitude of Back pressure (psi)	41
Saturated (Y/N):	Yes
Stage 1: Effective Stress (psi)	5
Sample Type	Remolded
Burrete Area (cm^2)	0.877

Test Specimen Data	Initial	During k Testing	Final
Wet Soil + Tare (g)	626.65		750.90
Dry Soil + Tare (g)	560.23		665.90
Tare (g)	0.00		120.30
Wt. of Water (g)	66.42		85.00
Dry Soil (g)	560.23		545.60
Moisture Content (%)	11.9		15.6
Sample Volume (ft^3)	0.01059	0.01044	
Dry Density (pcf)	116.5	117.3	
Wet Density (pcf)	130.4	135.9	
Saturation (%)	75.7	100.0	
Percent Compaction	95.1	95.8	
Height (in)	3.019	3.006	
Diameter (in)	2.778	2.766	
Area (in^2)	6.063	6.008	
Est. Moisture Content after Consolidation (%)		15.2%	
Est. Void Ratio after Consolidation		0.402	
Specific Gravity*	2.65		

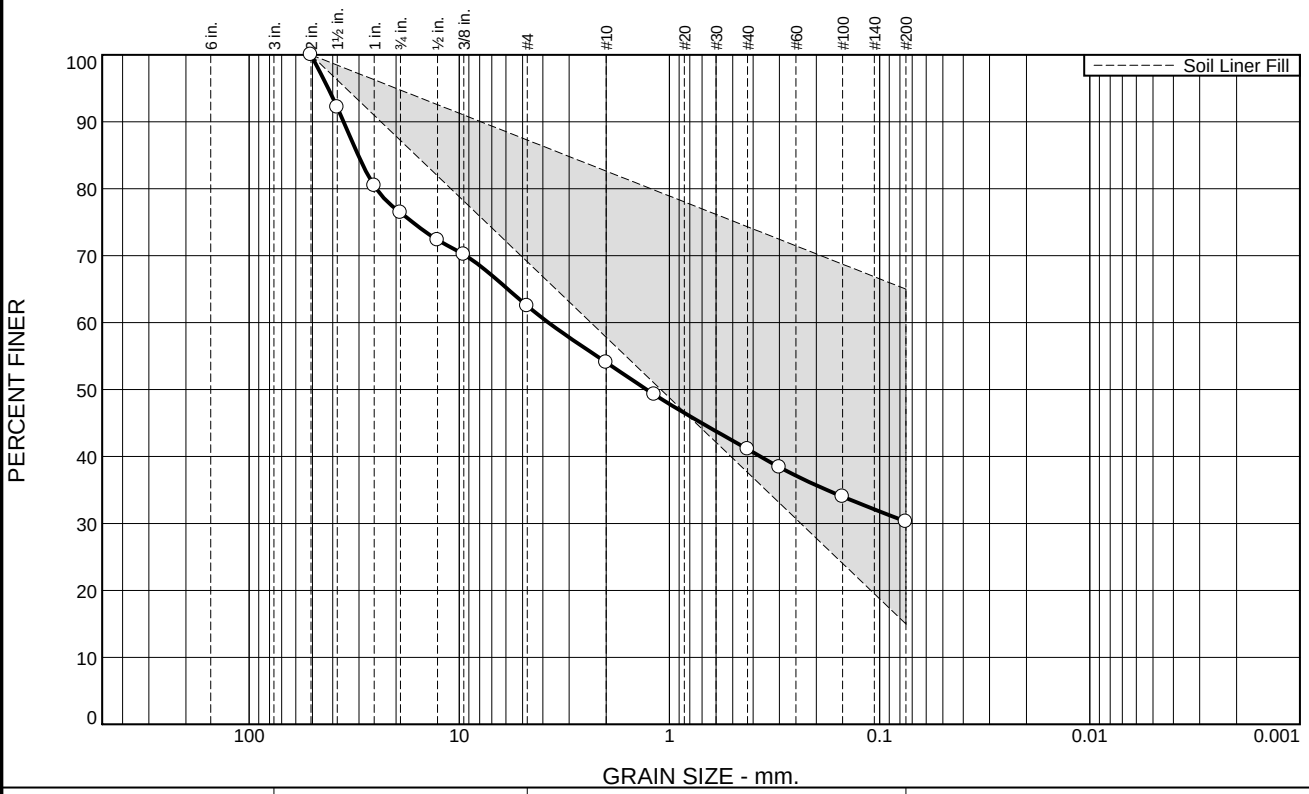
*Specific gravity is assumed

Maximum Dry Density:
ASTM D 698

Maximum Dry Density (pcf):	122.5
Initial Remolded Dry Density (pcf):	116.5
Initial Percent Compaction:	95%
Initial Void Ratio:	0.420
Optimum Moisture Content(%):	12.0
Initial Water Content (%):	11.9
Confining Pressure (psi):	5.0
Hydraulic Conductivity, k_{20} (cm/s):	**6.6E-07**
Gradient Range (h/L):	9.3 10.5

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	23.6	13.9	8.4	13.0	10.8	30.3	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2"	100.0	100.0	
1.5"	92.2		
1"	80.4		
3/4"	76.4		
1/2"	72.3		
3/8"	70.2		
#4	62.5		
#10	54.1		
#16	49.3		
#40	41.1		
#50	38.4		
#100	34.0		
#200	30.3	15.0 - 65.0	

* Soil Liner Fill

Material Description

Brown clayey gravel with sand

Atterberg Limits

PL= 15 LL= 37 PI= 22

Coefficients

D_{90}= 35.5154 D_{85}= 30.2553 D_{60}= 3.7638
D_{50}= 1.2834 D_{30}= D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= GC AASHTO= A-2-6(2)

Remarks

Location: Tezak Processing Plant
Sample Number: NFSLF-131-C **Depth:** Stockpile **Date:** 05/29/2020

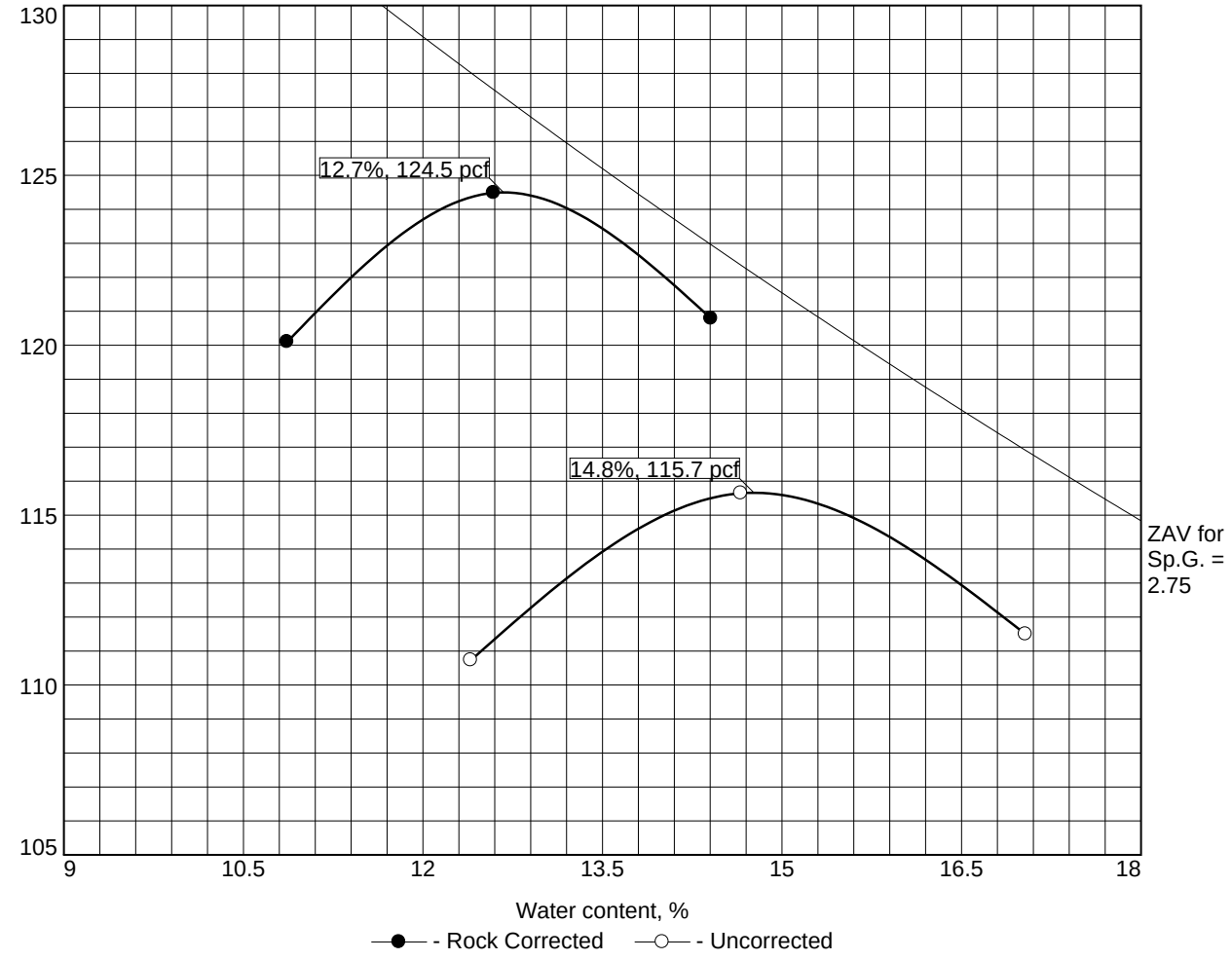
NewFields

Client: CC&V Gold Mining Company
Project: VLF Phase 2B
Project No: 475.0106.032 **Figure** NFSLF131-C

Tested By: DC **Checked By:** TW

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

COMPACTION TEST REPORT



Test specification: ASTM D 698-12 Method C Standard
ASTM D4718-15 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/4 in.	% < No.200
	USCS	AASHTO						
Stockpile	GC	A-2-6(2)		2.65	37	22	23.6	30.3

ROCK CORRECTED TEST RESULTS	UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 124.5 pcf	115.7 pcf	Brown clayey gravel with sand
Optimum moisture = 12.7 %	14.8 %	

Project No. 475.0106.032 **Client:** CC&V Gold Mining Company
Project: VLF Phase 2B

○**Location:** Tezak Processing Plant **Sample Number:** NFSLF-131-C

NewFields

Remarks:

Figure NFSLF131C

Tested By: DC **Checked By:** TW

NewFields

Flexible Wall Hydraulic Conductivity
ASTM D5084

Client:	Cripple Crrek and Victor Gold Mines	Lab Sample No.:	NFSLF-131-C
Project:	Squaw Gulch VLF PH2A		
Project No.:	475.0106.032	Location:	Tezak Processing Plant
Phase:	2	Elevation/Depth:	Stockpile
Requested By:	JP	Tested By:	TW
Test Started:	6/24/2020	Checked By:	TW
Test Finished:	6/30/2020	Sample Description:	Brown clayey gravel with sand

Test Boundary Conditions	
Type of Permeant	De-aired Bottled
Magnitude of Back pressure (psi)	41
Saturated (Y/N):	Yes
Stage 1: Effective Stress (psi)	5
Sample Type	Remolded
Burrete Area (cm^2)	0.877

Test Specimen Data	Initial	During k Testing	Final
Wet Soil + Tare (g)	639.51		793.45
Dry Soil + Tare (g)	567.64		708.77
Tare (g)	0.00		145.77
Wt. of Water (g)	71.87		84.68
Dry Soil (g)	567.64		563.00
Moisture Content (%)	12.7		15.0
Sample Volume (ft^3)	0.01059	0.01058	
Dry Density (pcf)	118.2	118.1	
Wet Density (pcf)	133.2	135.9	
Saturation (%)	84.3	100.0	
Percent Compaction	94.9	94.9	
Height (in)	3.016	3.017	
Diameter (in)	2.779	2.780	
Area (in^2)	6.066	6.069	
Est. Moisture Content after Consolidation (%)		15.1%	
Est. Void Ratio after Consolidation		0.401	
Specific Gravity*	2.65		

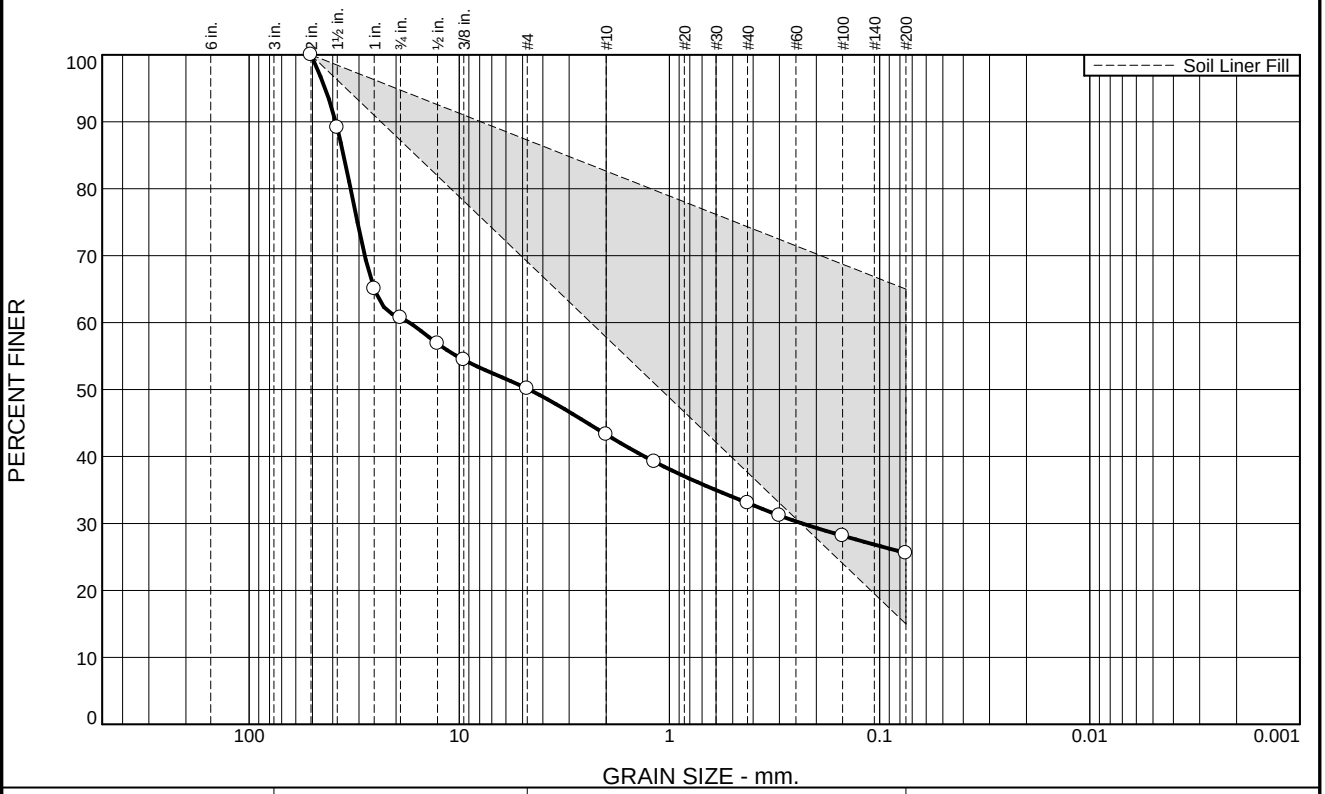
*Specific gravity is assumed

Maximum Dry Density:
ASTM D 698

Maximum Dry Density (pcf):	124.5
Initial Remolded Dry Density (pcf):	118.2
Initial Percent Compaction:	95%
Initial Void Ratio:	0.399
Optimum Moisture Content(%):	12.7
Initial Water Content (%):	12.7
Confining Pressure (psi):	5.0
Hydraulic Conductivity, k_{20} (cm/s):	**3.9E-07**
Gradient Range (h/L):	9.3 10.4

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	39.3	10.6	6.8	10.2	7.5	25.6	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2"	100.0	100.0	
1.5"	89.1		
1"	65.1		
3/4"	60.7		
1/2"	56.9		
3/8"	54.4		
#4	50.1		
#10	43.3		
#16	39.2		
#40	33.1		
#50	31.2		
#100	28.2		
#200	25.6	15.0 - 65.0	

* Soil Liner Fill

Material Description

Brown clayey gravel with sand

Atterberg Limits

PL= 10 LL= 31 PI= 21

Coefficients

D_{90}= 38.7446 D_{85}= 35.5138 D_{60}= 17.2515
D_{50}= 4.6567 D_{30}= 0.2334 D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= GC AASHTO= A-2-6(1)

Remarks

Location: Tezak Processing Plant
Sample Number: NFSLF-133-C **Depth:** Stockpile **Date:** 06/04/2020

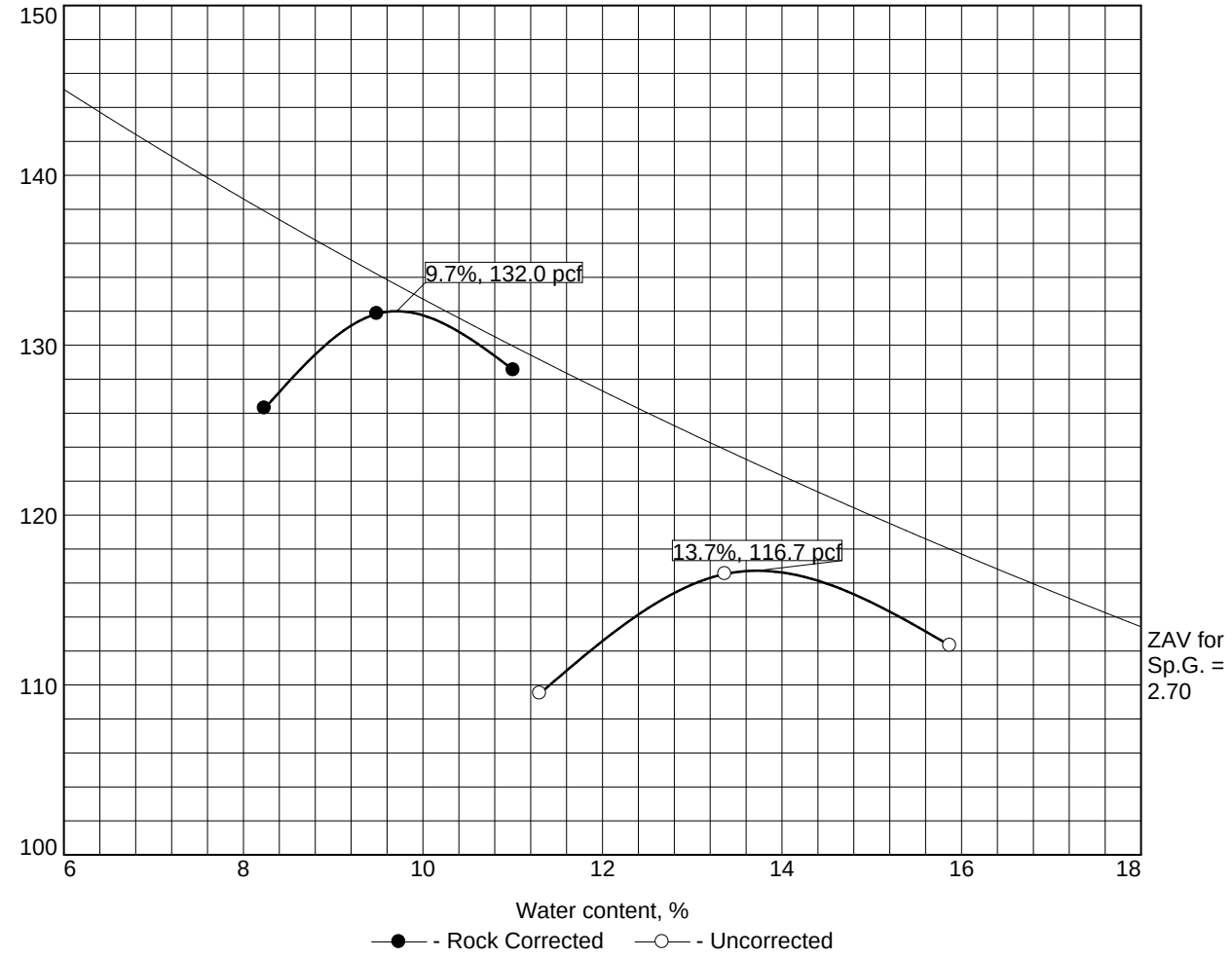
NewFields

Client: CC&V Gold Mining Company
Project: VLF Phase 2B
Project No: 475.0106.032 **Figure** NFSLF133-C

Tested By: DC **Checked By:** TW

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

COMPACTION TEST REPORT



Test specification: ASTM D 698-12 Method C Standard
ASTM D4718-15 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/4 in.	% < No.200
	USCS	AASHTO						
Stockpile	GC	A-2-6(1)		2.65	31	21	39.3	25.6

ROCK CORRECTED TEST RESULTS	UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 132.0 pcf	116.7 pcf	Brown clayey gravel with sand
Optimum moisture = 9.7 %	13.7 %	

Project No. 475.0106.032 **Client:** CC&V Gold Mining Company
Project: VLF Phase 2B

○**Location:** Tezak Processing Plant **Sample Number:** NFSLF-133-C

NewFields

Remarks:

Figure NFSLF133-C

Tested By: DC **Checked By:** TW

NewFields

Flexible Wall Hydraulic Conductivity
ASTM D5084

Client:	Cripple Crrek and Victor Gold Mines	Lab Sample No.:	NFSLF-133-C
Project:	Squaw Gulch VLF PH2A	Field Sample No.:	NFSLF-133-C
Project No.:	475.0106.032	Location:	Tezak Processing Plant
Phase:	2	Elevation/Depth:	Stockpile
Requested By:	JP	Tested By:	TW
Test Started:	8/4/2020	Checked By:	TW
Test Finished:	8/11/2020	Sample Description:	Brown clayey gravel with sand

Test Boundary Conditions	
Type of Permeant	De-aired Bottled
Magnitude of Back pressure (psi)	35
Saturated (Y/N):	Yes
Stage 2: Effective Stress (psi)	20
Sample Type	Remolded
Burrete Area (cm^2)	0.877

Test Specimen Data	Initial	During k Testing	Final
Wet Soil + Tare (g)	673.09		885.40
Dry Soil + Tare (g)	602.42		806.50
Tare (g)	0.00		235.20
Wt. of Water (g)	70.67		78.90
Dry Soil (g)	602.42		571.30
Moisture Content (%)	11.7		13.8
Sample Volume (ft^3)	0.01067	0.01062	
Dry Density (pcf)	124.4	125.0	
Wet Density (pcf)	139.8	140.2	
Saturation (%)	100.0%	100.0	
Percent Compaction	94.3	94.7	
Height (in)	3.015	3.005	
Diameter (in)	2.785	2.776	
Area (in^2)	6.093	6.052	
Est. Moisture Content after Consolidation (%)		12.2%	
Est. Void Ratio after Consolidation		0.324	
Specific Gravity*	2.65		

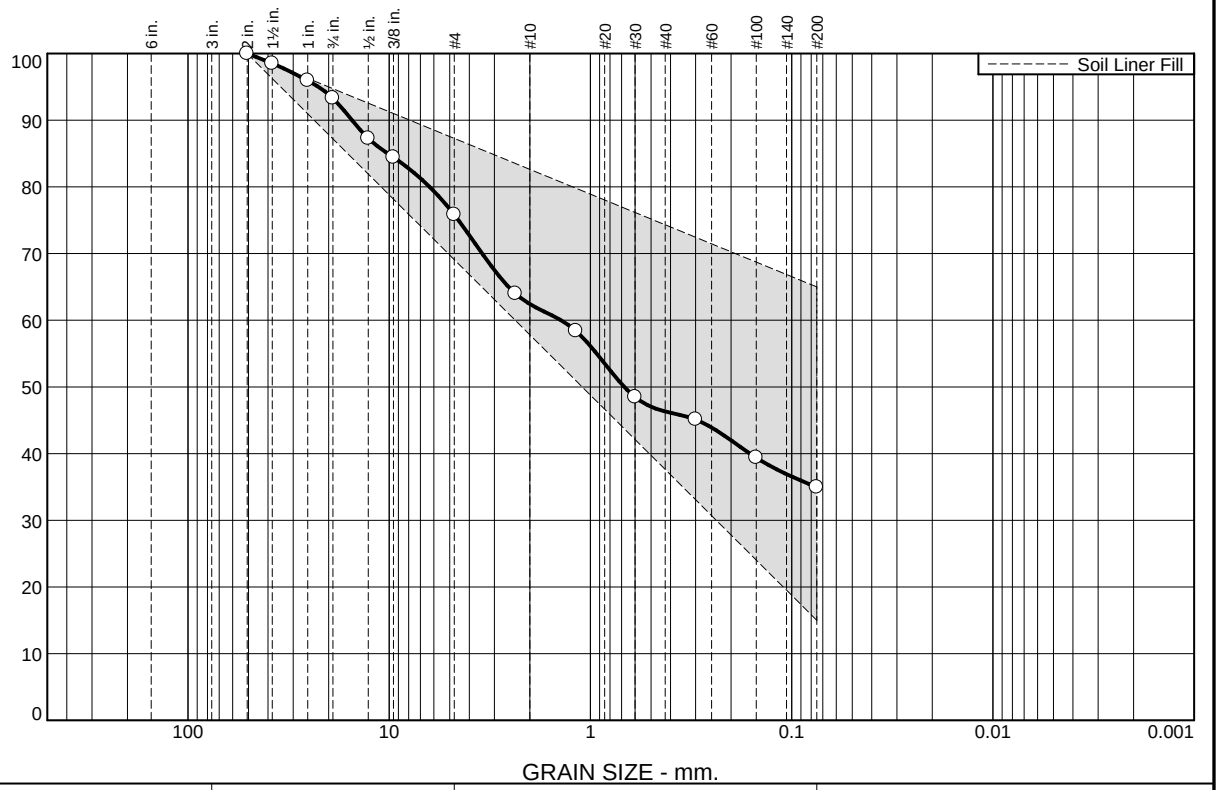
*Specific gravity is assumed

Maximum Dry Density:
ASTM D 698

Maximum Dry Density (pcf):	132
Initial Remolded Dry Density (pcf):	124.6
Initial Percent Compaction:	94%
Initial Void Ratio:	0.328
Optimum Moisture Content(%):	9.7
Initial Water Content (%):	11.7
Confining Pressure (psi):	20.0
Hydraulic Conductivity, k_{20} (cm/s):	**8.3E-07**
Gradient Range (h/L):	0.2 1.3

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	6.7	17.5	13.4	16.1	11.3	35.0	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2	100.0	100.0	
1.5	98.5		
1	95.9		
3/4"	93.3		
1/2"	87.3		
3/8"	84.4		
#4	75.8		
#8	64.0		
#16	58.4		
#30	48.5		
#50	45.1		
#100	39.4		
#200	35.0	15.0 - 65.0	

* Soil Liner Fill

Material Description

Brown clayey gravel with sand

Atterberg Limits

PL= 10 LL= 34 PI= 24

Coefficients

D_{90}= 15.2821 D_{85}= 10.1507 D_{60}= 1.3999
D_{50}= 0.6787 D_{30}= D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= SC AASHTO= A-2-6(3)

Remarks

Location: Tezak Processing Plant
Sample Number: NFSLF-134-C **Depth:** Stockpile **Date:** 06/18/2020

NewFields

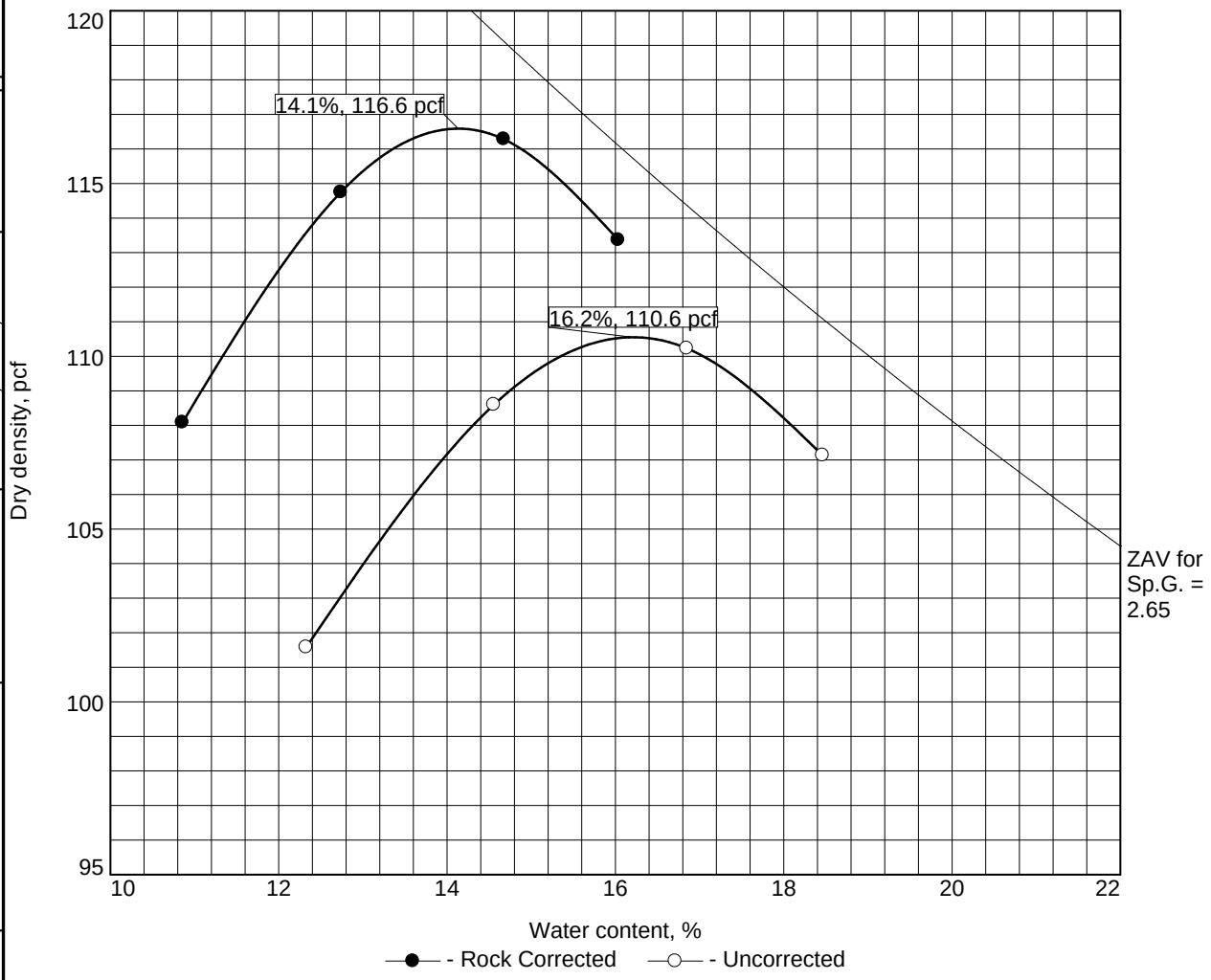
Client: CC&V Gold Mining Company
Project: VLF Phase 2B

Project No: 475.0106.032 **Figure** NFSLF134-C

Tested By: DC **Checked By:** TW

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

COMPACTION TEST REPORT



Test specification: ASTM D 698-12 Method B Standard
ASTM D4718-15 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/8 in.	% < No.200
	USCS	AASHTO						
Stockpile	SC	A-2-6(3)		2.65	34	24	15.6	35.0

ROCK CORRECTED TEST RESULTS	UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 116.6 pcf	110.6 pcf	Brown clayey gravel with sand
Optimum moisture = 14.1 %	16.2 %	

Project No. 475.0106.032 **Client:** CC&V Gold Mining Company
Project: VLF Phase 2B

○**Location:** Tezak Processing Plant **Sample Number:** NFSLF-134-C

Remarks:

NewFields

Figure NFSLF134C

NewFields

Flexible Wall Hydraulic Conductivity
ASTM D5084

Client:	Cripple Crrek and Victor Gold Mines	Lab Sample No.:	NFSLF-134-C
Project:	Squaw Gulch VLF PH2A		
Project No.:	475.0106.032	Location:	Tezak Processing Plant
Phase:	2	Elevation/Depth:	Stockpile
Requested By:	JP	Tested By:	TW
Test Started:	9/11/2020	Checked By:	TW
Test Finished:	9/16/2020	Sample Description:	Brown clayey sand with gravel

Test Boundary Conditions	
Type of Permeant	De-aired Bottled
Magnitude of Back pressure (psi)	36
Saturated (Y/N):	Yes
Stage 1: Effective Stress (psi)	5
Sample Type	Remolded
Burrete Area (cm^2)	0.877

Test Specimen Data	Initial	During k Testing	Final
Wet Soil + Tare (g)	607.31		856.40
Dry Soil + Tare (g)	529.57		743.50
Tare (g)	0.00		119.10
Wt. of Water (g)	77.74		112.90
Dry Soil (g)	529.57		624.40
Moisture Content (%)	14.7		18.1
Sample Volume (ft^3)	0.01057	0.01047	
Dry Density (pcf)	110.6	111.0	
Wet Density (pcf)	126.7	131.8	
Saturation (%)	78.1	100.0	
Percent Compaction	95.3	95.7	
Height (in)	3.015	3.007	
Diameter (in)	2.777	2.769	
Area (in^2)	6.055	6.023	
Est. Moisture Content after Consolidation (%)		18.3%	
Est. Void Ratio after Consolidation		0.484	
Specific Gravity*	2.65		

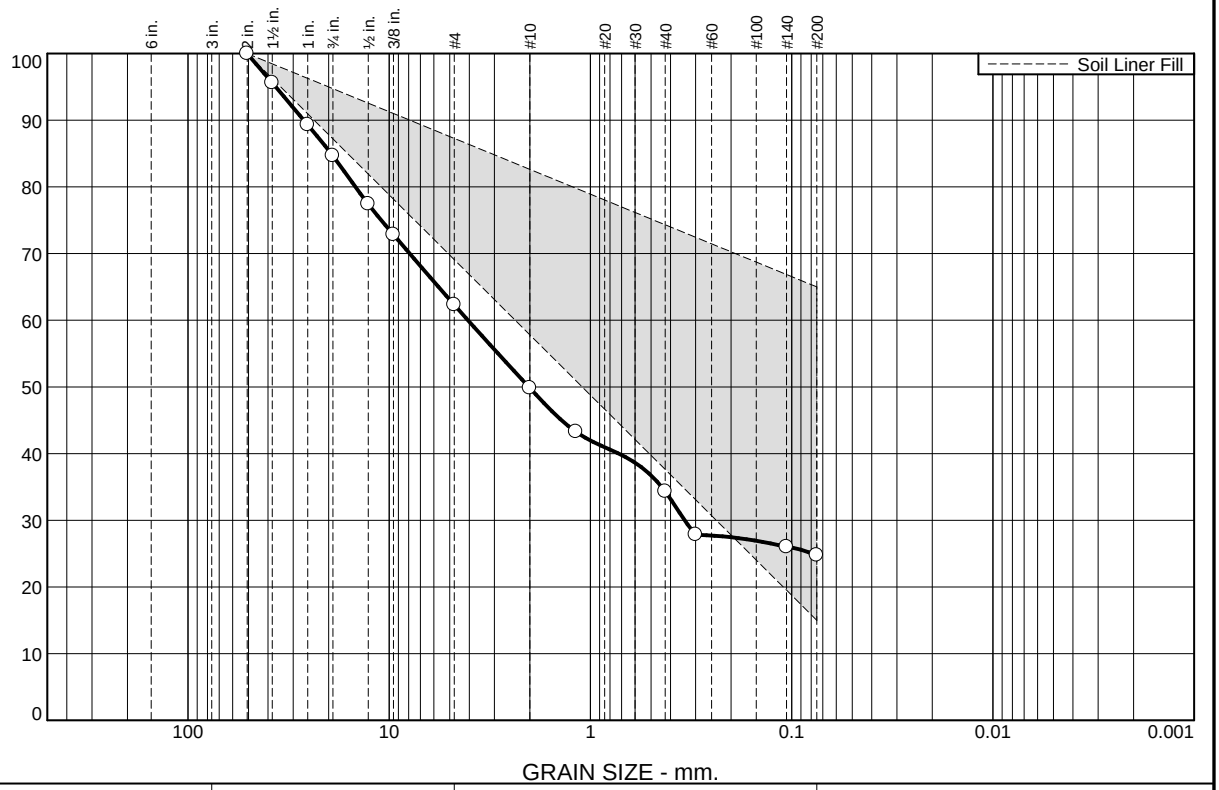
*Specific gravity is assumed

Maximum Dry Density:
ASTM D 698

Maximum Dry Density (pcf):	116
Initial Remolded Dry Density (pcf):	110.6
Initial Percent Compaction:	95%
Initial Void Ratio:	0.495
Optimum Moisture Content(%):	14.6
Initial Water Content (%):	14.7
Confining Pressure (psi):	5.0
Hydraulic Conductivity, k_{20} (cm/s):	**4.6E-07**
Gradient Range (h/L):	9.5 10.5

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	15.3	22.4	12.5	15.5	9.5	24.8	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2	100.0	100.0	
1.5	95.6		
1	89.3		
.75	84.7		
.5	77.4		
.375	72.8		
#4	62.3		
#10	49.8		
#16	43.3		
#40	34.3		
#50	27.8		
#140	26.0		
#200	24.8	15.0 - 65.0	

* Soil Liner Fill

Material Description

Reddish brown clayey gravel with sand

Atterberg Limits

PL= 12 LL= 34 PI= 22

Coefficients

D_{90}= 26.5822 D_{85}= 19.4394 D_{60}= 4.0605
D_{50}= 2.0243 D_{30}= 0.3399 D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= GC AASHTO= A-2-6(1)

Remarks

Location: Tezak Processing Plant
Sample Number: NFSLF-135-C **Depth:** Stockpile **Date:** 06/18/2020

NewFields

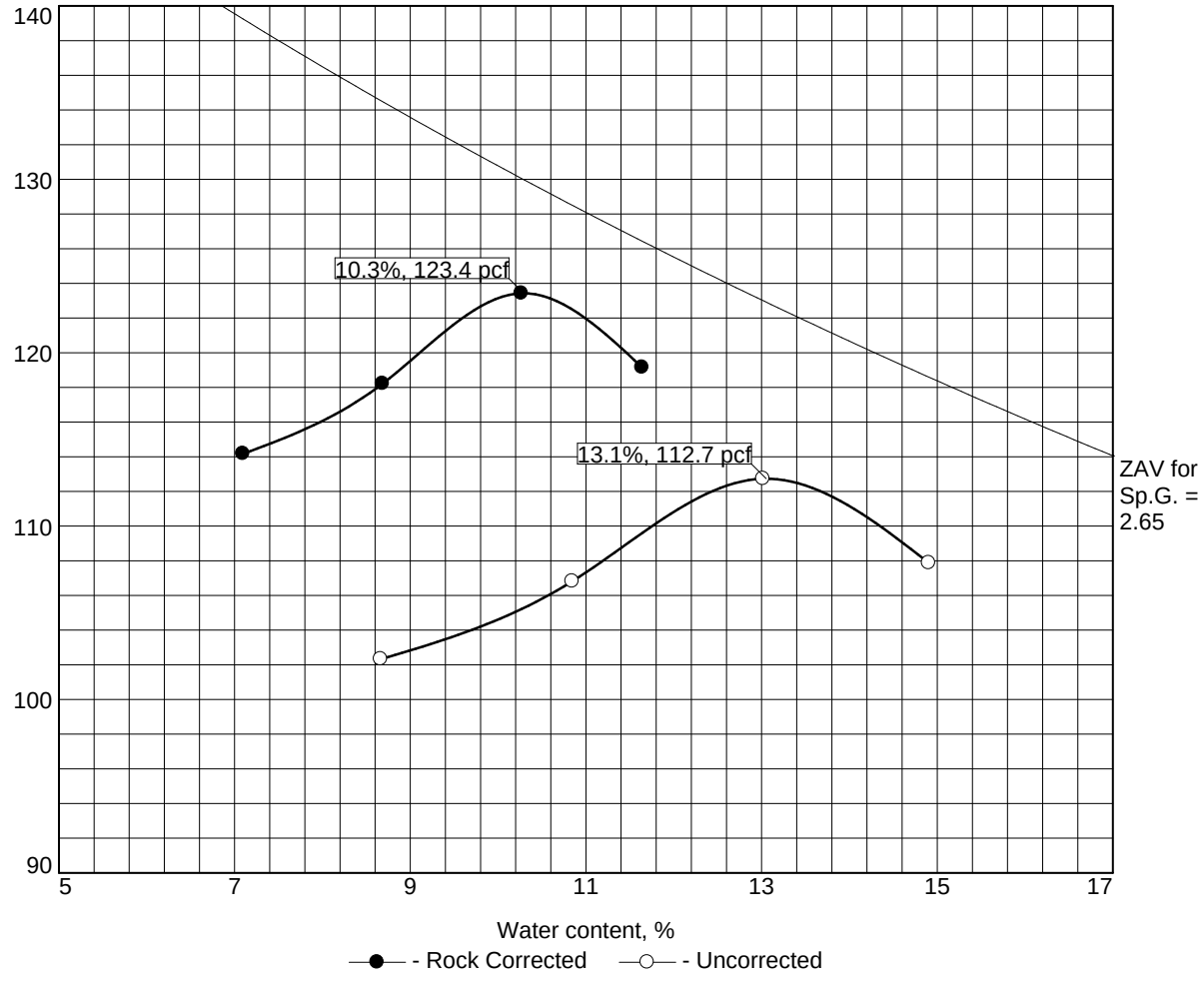
Client: CC&V Gold Mining Company
Project: VLF Phase 2B

Project No: 475.0106.032 **Figure** NFSLF135-C

Tested By: DC **Checked By:** TW

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

COMPACTION TEST REPORT



Test specification: ASTM D 698-12 Method B Standard
ASTM D4718-15 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/8 in.	% < No.200
	USCS	AASHTO						
Stockpile	GC	A-2-6(1)		2.65	34	22	27.2	24.8

ROCK CORRECTED TEST RESULTS	UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 123.4 pcf	112.7 pcf	Reddish brown clayey gravel with sand
Optimum moisture = 10.3 %	13.1 %	

Project No. 475.0106.032 **Client:** CC&V Gold Mining Company
Project: VLF Phase 2B

○**Location:** Tezak Processing Plant **Sample Number:** NFSLF-135-C

NewFields

Remarks:

Figure NFSLF135C

Tested By: DC **Checked By:** TW

NewFields

Flexible Wall Hydraulic Conductivity
ASTM D5084

Client:	Cripple Crrek and Victor Gold Mines	Lab Sample No.:	NFSLF-135-C
Project:	Squaw Gulch VLF PH2A		
Project No.:	475.0106.032	Location:	Tezak Processing Plant
Phase:	2	Elevation/Depth:	Stockpile
Requested By:	JP	Tested By:	TW
Test Started:	7/14/2020	Checked By:	TW
Test Finished:	7/22/2020	Sample Description:	Brown clayey gravel with sand

Test Boundary Conditions	
Type of Permeant	De-aired Bottled
Magnitude of Back pressure (psi)	35
Saturated (Y/N):	Yes
Stage 1: Effective Stress (psi)	5
Sample Type	Remolded
Burrete Area (cm^2)	0.877

Test Specimen Data	Initial	During k Testing	Final
Wet Soil + Tare (g)	623.21		765.32
Dry Soil + Tare (g)	564.63		683.66
Tare (g)	0.00		120.11
Wt. of Water (g)	58.58		81.66
Dry Soil (g)	564.63		563.55
Moisture Content (%)	10.4		14.5
Sample Volume (ft^3)	0.01062	0.01063	
Dry Density (pcf)	117.1	116.9	
Wet Density (pcf)	129.4	135.2	
Saturation (%)	67.5	100.0	
Percent Compaction	94.8	94.7	
Height (in)	3.016	3.019	
Diameter (in)	2.783	2.785	
Area (in^2)	6.084	6.094	
Est. Moisture Content after Consolidation (%)		15.7%	
Est. Void Ratio after Consolidation		0.416	
Specific Gravity*	2.65		

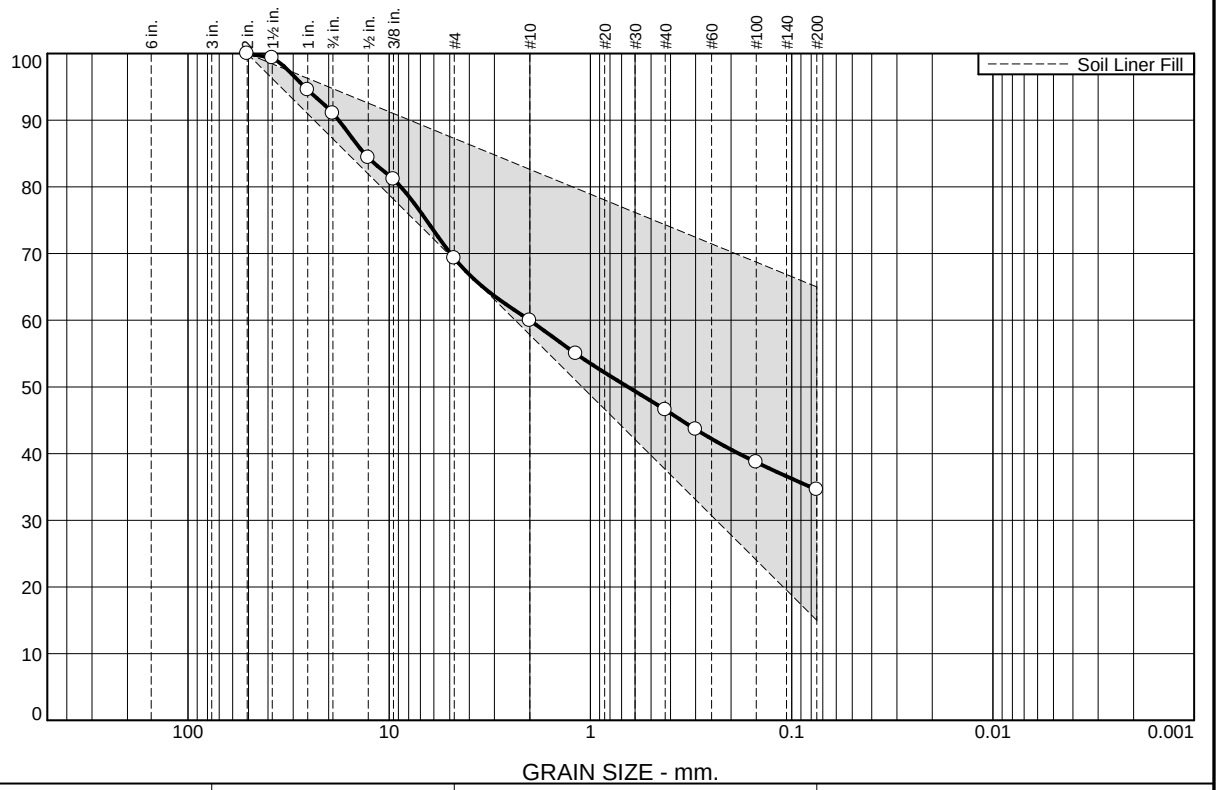
*Specific gravity is assumed

Maximum Dry Density:
ASTM D 698

Maximum Dry Density (pcf):	123.5
Initial Remolded Dry Density (pcf):	117.1
Initial Percent Compaction:	95%
Initial Void Ratio:	0.412
Optimum Moisture Content(%):	10.5
Initial Water Content (%):	10.4
Confining Pressure (psi):	5.0
Hydraulic Conductivity, k_{20} (cm/s):	**6.1E-07**
Gradient Range (h/L):	1.1 1.3

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	9.0	21.7	9.3	13.4	12.0	34.6	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2	100.0	100.0	
1.5	99.4		
1	94.5		
.75	91.0		
.5	84.4		
.375	81.2		
#4	69.3		
#10	60.0		
#16	55.0		
#40	46.6		
#50	43.6		
#100	38.7		
#200	34.6	15.0 - 65.0	

* Soil Liner Fill

Material Description

Brown clayey sand with gravel

Atterberg Limits

PL= 12 LL= 37 PI= 25

Coefficients

D_{90}= 17.8098 D_{85}= 13.2712 D_{60}= 2.0077
D_{50}= 0.6505 D_{30}= D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= SC AASHTO= A-2-6(3)

Remarks

Location: Tezak Processing Plant
Sample Number: NFSLF-136-C **Depth:** Stockpile **Date:** 06/24/2020

NewFields

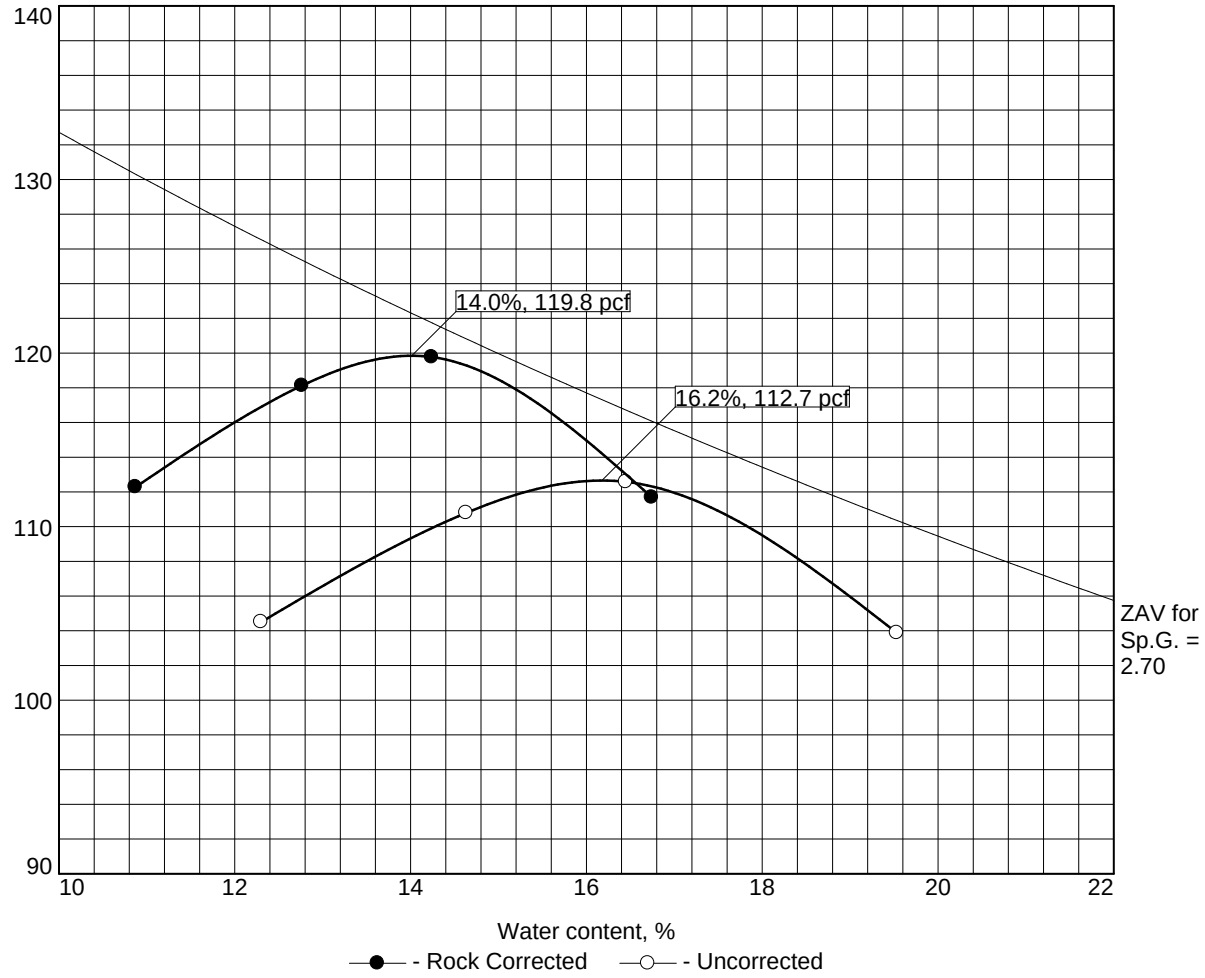
Client: CC&V Gold Mining Company
Project: VLF Phase 2B

Project No: 475.0106.032 **Figure** NFSLF136-C

Tested By: DC **Checked By:** TW

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

COMPACTION TEST REPORT



Test specification: ASTM D 698-12 Method B Standard
ASTM D4718-15 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/8 in.	% < No.200
	USCS	AASHTO						
Stockpile	SC	A-2-6(3)		2.65	37	25	18.8	34.6

ROCK CORRECTED TEST RESULTS	UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 119.8 pcf	112.7 pcf	Brown clayey sand with gravel
Optimum moisture = 14.0 %	16.2 %	

Project No. 475.0106.032 **Client:** CC&V Gold Mining Company
Project: VLF Phase 2B

○**Location:** Tezak Processing Plant **Sample Number:** NFSLF-136-C

NewFields

Remarks:

Figure NFSLF136C

Tested By: DC **Checked By:** TW

NewFields

Flexible Wall Hydraulic Conductivity
ASTM D5084

Client:	Cripple Crrek and Victor Gold Mines	Lab Sample No.:	NFSLF-136-C
Project:	Squaw Gulch VLF PH2A		
Project No.:	475.0106.032	Location:	Tezak Processing Plant
Phase:	2	Elevation/Depth:	Stockpile
Requested By:	JP	Tested By:	TW
Test Started:	9/10/2020	Checked By:	TW
Test Finished:	9/14/2020	Sample Description:	Brown clayey sand with gravel

Test Boundary Conditions	
Type of Permeant	De-aired Bottled
Magnitude of Back pressure (psi)	36
Saturated (Y/N):	Yes
Stage 1: Effective Stress (psi)	5
Sample Type	Remolded
Burrete Area (cm^2)	0.877

Test Specimen Data	Initial	During k Testing	Final
Wet Soil + Tare (g)	622		826.00
Dry Soil + Tare (g)	546.18		740.10
Tare (g)	0.00		220.00
Wt. of Water (g)	75.82		85.90
Dry Soil (g)	546.18		520.10
Moisture Content (%)	13.9		16.5
Sample Volume (ft^3)	0.01057	0.01047	
Dry Density (pcf)	113.8	114.3	
Wet Density (pcf)	129.8	133.9	
Saturation (%)	82.0	100.0	
Percent Compaction	95.0	95.4	
Height (in)	3.015	3.007	
Diameter (in)	2.777	2.769	
Area (in^2)	6.055	6.021	
Est. Moisture Content after Consolidation (%)		16.6%	
Est. Void Ratio after Consolidation		0.441	
Specific Gravity*	2.65		

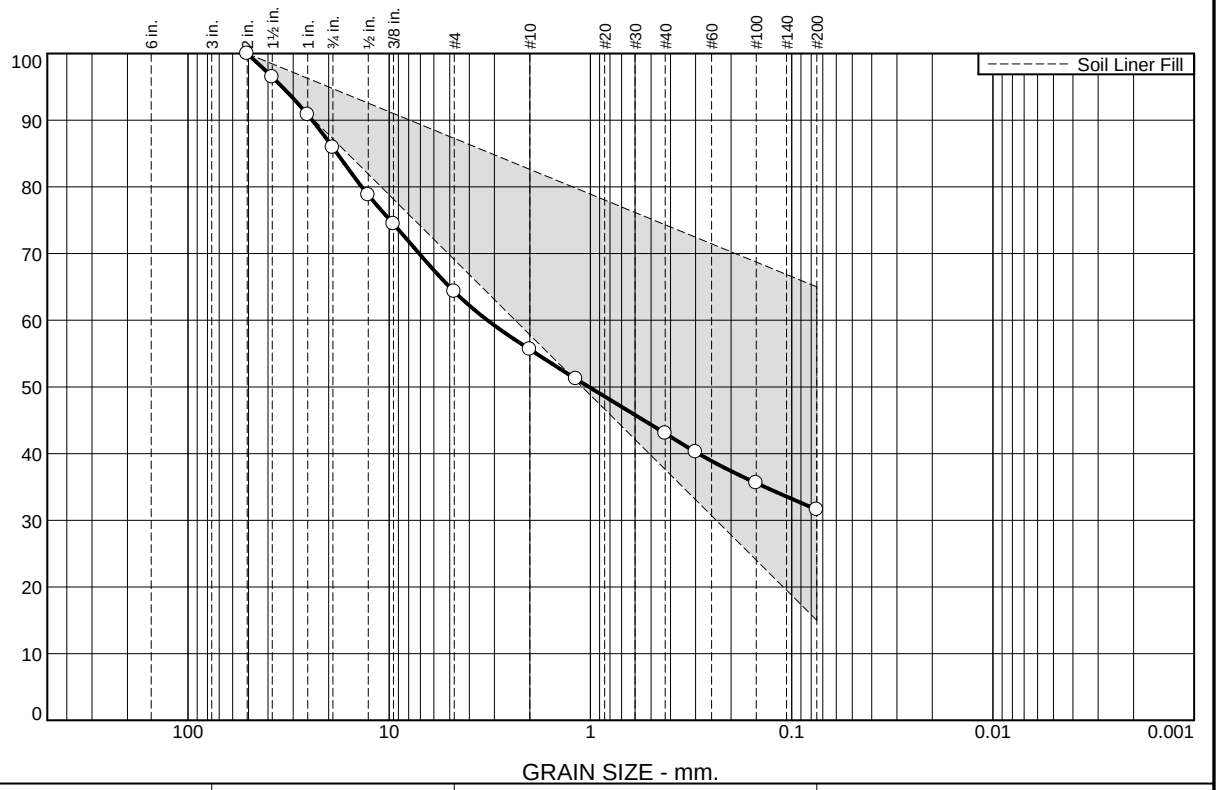
*Specific gravity is assumed

Maximum Dry Density:
ASTM D 698

Maximum Dry Density (pcf):	119.8
Initial Remolded Dry Density (pcf):	113.8
Initial Percent Compaction:	95%
Initial Void Ratio:	0.453
Optimum Moisture Content(%):	14.0
Initial Water Content (%):	13.9
Confining Pressure (psi):	5.0
Hydraulic Conductivity, k_{20} (cm/s):	**4.4E-07**
Gradient Range (h/L):	10.5 11.8

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	14.1	21.6	8.7	12.6	11.4	31.6	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2"	100.0	100.0	
1.5"	96.5		
1"	90.8		
3/4"	85.9		
1/2"	78.8		
3/8"	74.4		
#4	64.3		
#10	55.6		
#16	51.2		
#40	43.0		
#50	40.2		
#100	35.6		
#200	31.6	15.0 - 65.0	

* Soil Liner Fill

Material Description

Brown clayey gravel with sand

Atterberg Limits

PL= 11 LL= 34 PI= 23

Coefficients

D_{90}= 24.1492 D_{85}= 18.1086 D_{60}= 3.2478
D_{50}= 1.0163 D_{30}= D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= GC AASHTO= A-2-6(2)

Remarks

Location: Tezak Processing Plant
Sample Number: NFSLF-137-C **Depth:** Stockpile **Date:** 7/6/2020

NewFields

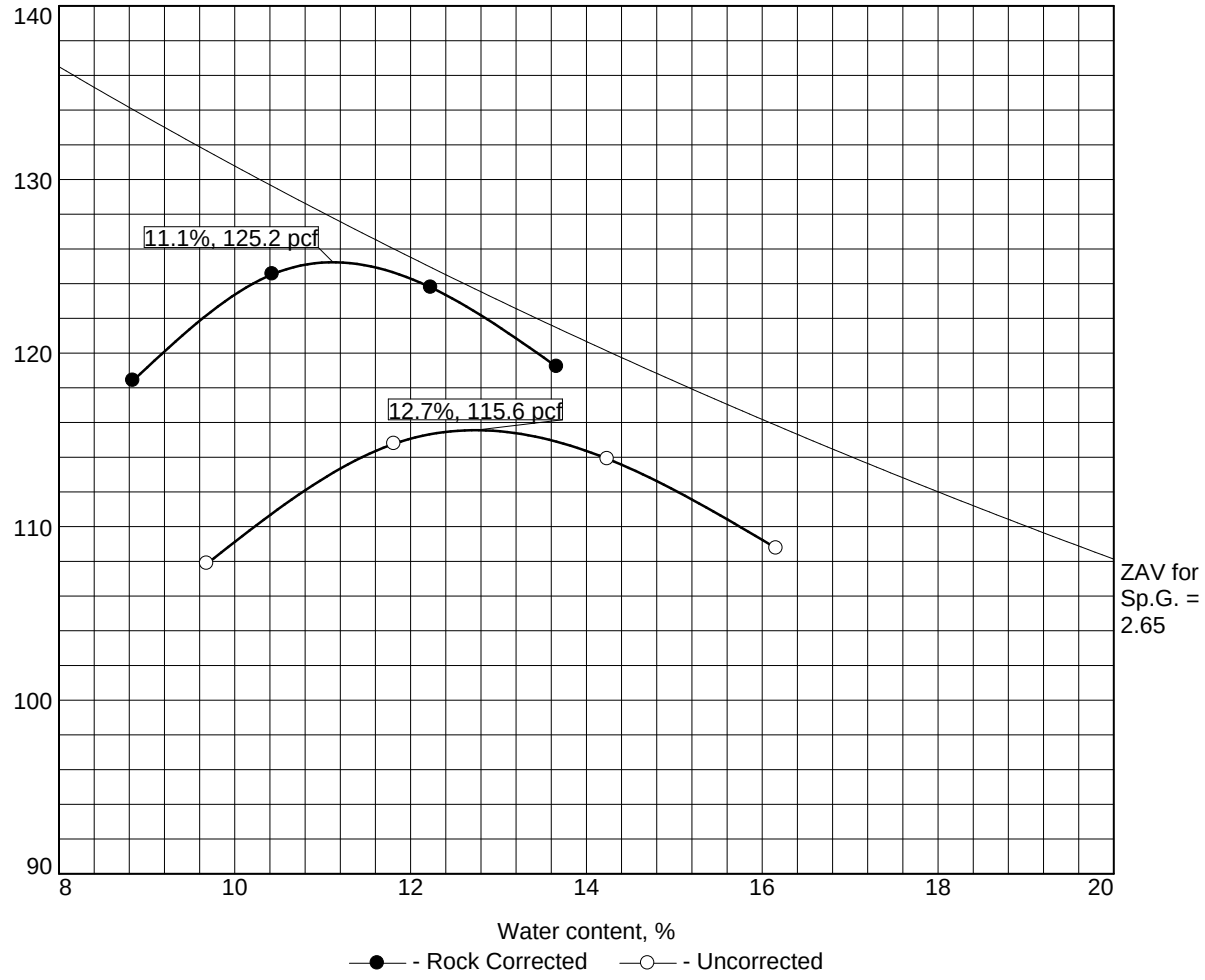
Client: CC&V Gold Mining Company
Project: VLF Phase 2B

Project No: 475.0106.032 **Figure** NFSLF137-C

Tested By: DC **Checked By:** TW

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

COMPACTION TEST REPORT



Test specification: ASTM D 698-07 Method B Standard
ASTM D4718-15 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/8 in.	% < No.200
	USCS	AASHTO						
Stockpile	GC	A-2-6(2)	12.0	2.65	34	23	25.6	31.6

ROCK CORRECTED TEST RESULTS	UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 125.2 pcf	115.6 pcf	Brown clayey gravel with sand
Optimum moisture = 11.1 %	12.7 %	

Project No. 475.0106.032 **Client:** CC&V Gold Mining Company
Project: VLF Phase 2B

○**Location:** Tezak Processing Plant **Sample Number:** NFSLF-137-C

NewFields

Remarks:

Figure NFSLF137C

Tested By: DC **Checked By:** TW

NewFields

Flexible Wall Hydraulic Conductivity
ASTM D5084

Client:	Cripple Crrek and Victor Gold Mines	Lab Sample No.:	NFSLF-137-C
Project:	Squaw Gulch VLF PH2A		
Project No.:	475.0106.032	Location:	Tezak Processing Plant
Phase:	2	Elevation/Depth:	Stockpile
Requested By:	JP	Tested By:	TW
Test Started:	9/16/2020	Checked By:	TW
Test Finished:	9/20/2020	Sample Description:	Brown clayey gravel with sand

Test Boundary Conditions	
Type of Permeant	De-aired Bottled
Magnitude of Back pressure (psi)	36
Saturated (Y/N):	Yes
Stage 1: Effective Stress (psi)	5
Sample Type	Remolded
Burrete Area (cm^2)	0.877

Test Specimen Data	Initial	During k Testing	Final
Wet Soil + Tare (g)	646.85		657.90
Dry Soil + Tare (g)	585.91		593.40
Tare (g)	0.00		119.20
Wt. of Water (g)	60.94		64.50
Dry Soil (g)	585.91		474.20
Moisture Content (%)	10.4		13.6
Sample Volume (ft^3)	0.01055	0.01042	
Dry Density (pcf)	121.7	122.4	
Wet Density (pcf)	135.2	139.0	
Saturation (%)	82.0	100.0	
Percent Compaction	97.2	97.8	
Height (in)	3.017	3.006	
Diameter (in)	2.773	2.763	
Area (in^2)	6.041	5.997	
Est. Moisture Content after Consolidation (%)		13.0%	
Est. Void Ratio after Consolidation		0.345	
Specific Gravity*	2.65		

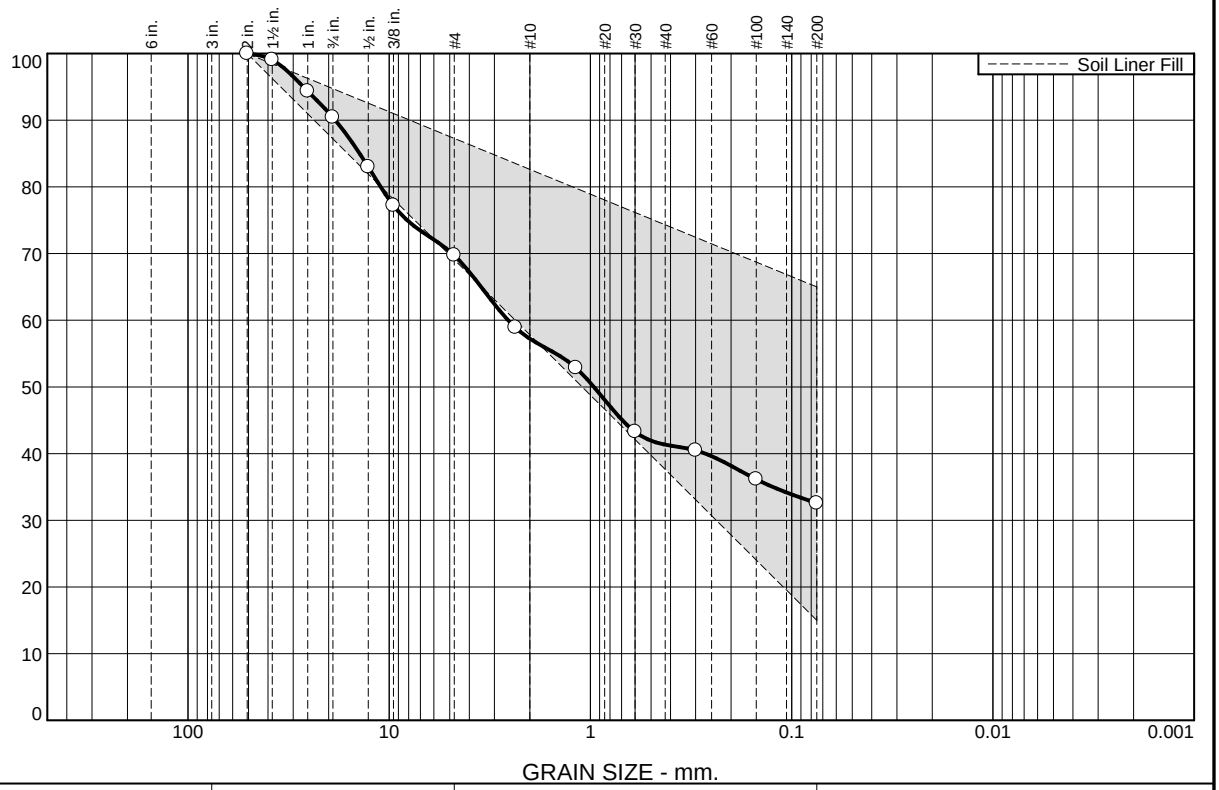
*Specific gravity is assumed

Maximum Dry Density:
ASTM D 698

Maximum Dry Density (pcf):	125.2
Initial Remolded Dry Density (pcf):	121.7
Initial Percent Compaction:	97%
Initial Void Ratio:	0.359
Optimum Moisture Content(%):	11.1
Initial Water Content (%):	10.4
Confining Pressure (psi):	5.0
Hydraulic Conductivity, k_{20} (cm/s):	**5.9E-07**
Gradient Range (h/L):	9.5 11.8

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	9.6	20.7	12.5	15.9	8.7	32.6	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2"	100.0	100.0	
1.5"	99.1		
1"	94.3		
3/4"	90.4		
1/2"	83.0		
3/8"	77.2		
#4	69.7		
#8	58.9		
#16	52.9		
#30	43.3		
#50	40.5		
#100	36.1		
#200	32.6	15.0 - 65.0	

* Soil Liner Fill

Material Description

Brown clayey sand with gravel

Atterberg Limits

PL= 11 LL= 31 PI= 20

Coefficients

D_{90}= 18.5181 D_{85}= 14.0046 D_{60}= 2.5641
D_{50}= 0.9611 D_{30}= D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= SC AASHTO= A-2-6(2)

Remarks

Location: N 56,240 E 37,992
Sample Number: NFSLF-138-R **Depth:** FG **Date:** 7/7/2020

NewFields

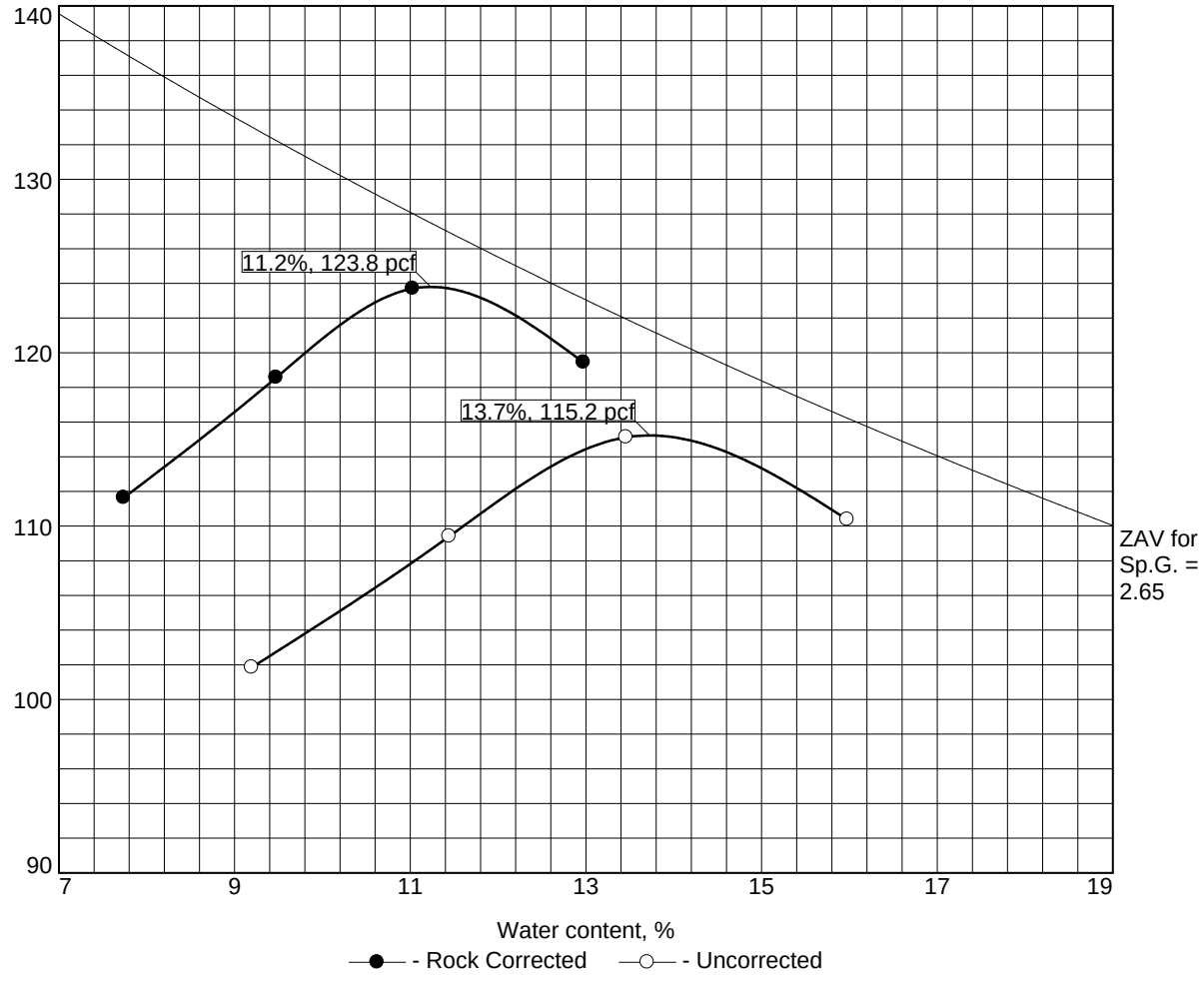
Client: CC&V Gold Mining Company
Project: VLF Phase 2B

Project No: 475.0106.032 **Figure** NFSLF138-R

Tested By: DC **Checked By:** TW

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

COMPACTION TEST REPORT



Test specification: ASTM D 1557-12 Method B Modified
ASTM D4718-15 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/8 in.	% < No.200
	USCS	AASHTO						
FG	SC	A-2-6(2)	11.8	2.65	31	20	22.8	32.6

ROCK CORRECTED TEST RESULTS	UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 123.8 pcf	115.2 pcf	Brown clayey sand with gravel
Optimum moisture = 11.2 %	13.7 %	

Project No. 475.0106.032 **Client:** CC&V Gold Mining Company
Project: VLF Phase 2B

○**Location:** N 56,240 E 37,992 **Sample Number:** NFSLF-138-R

NewFields

Remarks:

Figure NFSLF138R

Tested By: DC **Checked By:** TW

NewFields

Flexible Wall Hydraulic Conductivity
ASTM D5084

Client:	Cripple Crrek and Victor Gold Mines	Lab Sample No.:	NFSLF-138-R
Project:	Squaw Gulch VLF PH2A		
Project No.:	475.0106.032	Location:	Tezak Processing Plant
Phase:	2	Elevation/Depth:	Stockpile
Requested By:	JP	Tested By:	TW
Test Started:	9/28/2020	Checked By:	TW
Test Finished:	10/3/2020	Sample Description:	Brown clayey gravel with sand

Test Boundary Conditions	
Type of Permeant	De-aired Bottled
Magnitude of Back pressure (psi)	36
Saturated (Y/N):	Yes
Stage 1: Effective Stress (psi)	5
Sample Type	Remolded
Burrete Area (cm^2)	0.877

Test Specimen Data	Initial	During k Testing	Final
Wet Soil + Tare (g)	625.45		695.10
Dry Soil + Tare (g)	561.03		620.20
Tare (g)	0.00		119.00
Wt. of Water (g)	64.42		74.90
Dry Soil (g)	561.03		501.20
Moisture Content (%)	11.5		14.9
Sample Volume (ft^3)	0.01057	0.01042	
Dry Density (pcf)	117.0	117.8	
Wet Density (pcf)	130.5	136.2	
Saturation (%)	73.7	100.0	
Percent Compaction	95.2	95.9	
Height (in)	3.016	3.003	
Diameter (in)	2.777	2.765	
Area (in^2)	6.055	6.002	
Est. Moisture Content after Consolidation (%)		14.9%	
Est. Void Ratio after Consolidation		0.396	
Specific Gravity*	2.65		

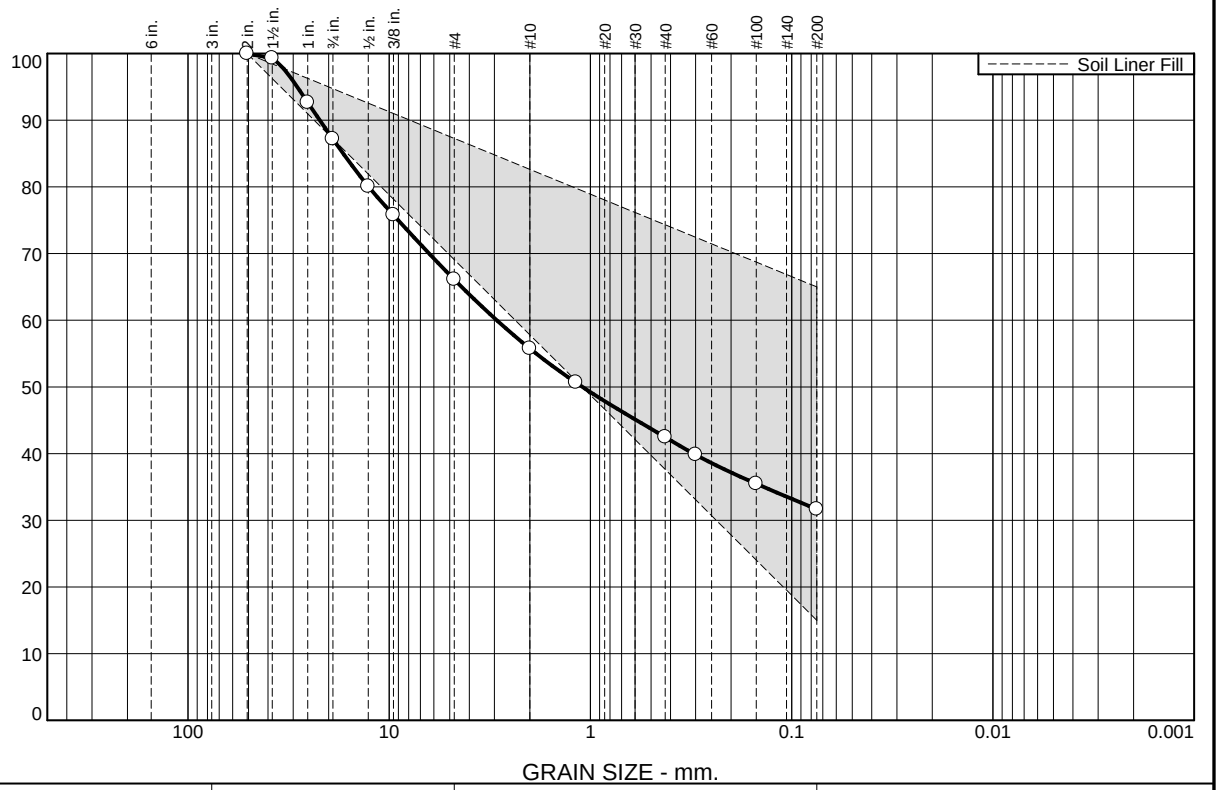
*Specific gravity is assumed

Maximum Dry Density:
ASTM D 698

Maximum Dry Density (pcf):	122.9
Initial Remolded Dry Density (pcf):	117.0
Initial Percent Compaction:	95%
Initial Void Ratio:	0.413
Optimum Moisture Content(%):	11.5
Initial Water Content (%):	11.5
Confining Pressure (psi):	5.0
Hydraulic Conductivity, k_{20} (cm/s):	**6.7E-07**
Gradient Range (h/L):	9.5 11.8

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	12.8	21.1	10.3	13.3	10.8	31.7	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2"	100.0	100.0	
1.5"	99.3		
1"	92.6		
3/4"	87.2		
1/2"	80.1		
3/8"	75.8		
#4	66.1		
#10	55.8		
#16	50.7		
#40	42.5		
#50	39.8		
#100	35.5		
#200	31.7	15.0 - 65.0	

* Soil Liner Fill

Material Description

Brown clayey sand with gravel

Atterberg Limits

PL= 11 LL= 33 PI= 22

Coefficients

D_{90}= 22.1433 D_{85}= 16.9058 D_{60}= 2.9221
D_{50}= 1.0949 D_{30}= D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= SC AASHTO= A-2-6(2)

Remarks

Location: Tezak Processing Plant
Sample Number: NFSLF-139-C **Depth:** Stockpile **Date:** 7/17/2020

NewFields

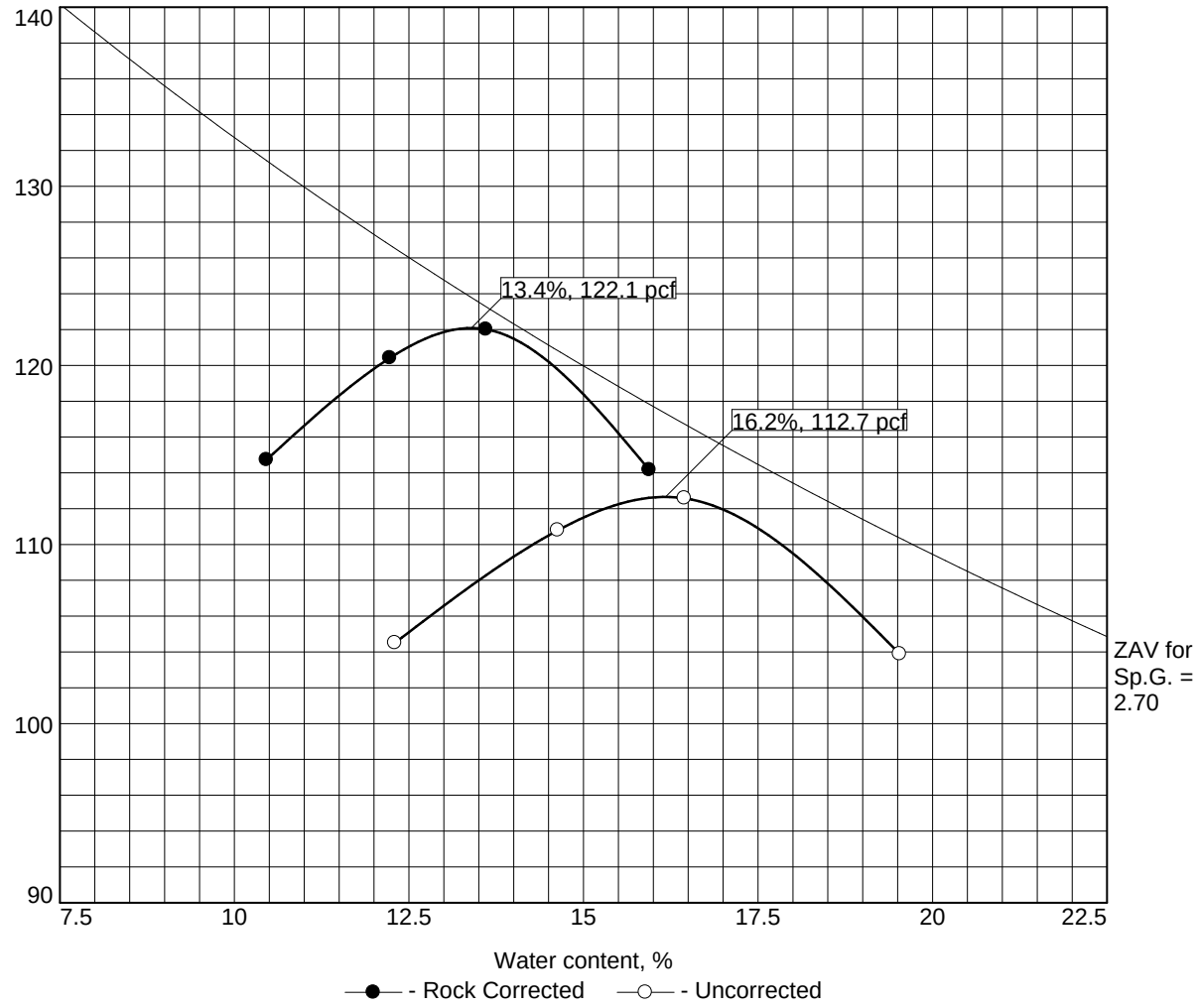
Client: CC&V Gold Mining Company
Project: VLF Phase 2B

Project No: 475.0106.032 **Figure** NFSLF139-C

Tested By: DC **Checked By:** TW

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

COMPACTION TEST REPORT



Test specification: ASTM D 698-07 Method B Standard
ASTM D4718-15 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/8 in.	% < No.200
	USCS	AASHTO						
Stockpile	SC	A-2-6(2)		2.65	33	22	24.2	31.7

ROCK CORRECTED TEST RESULTS	UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 122.1 pcf	112.7 pcf	Brown clayey sand with gravel
Optimum moisture = 13.4 %	16.2 %	

Project No. 475.0106.032 **Client:** CC&V Gold Mining Company
Project: VLF Phase 2B

○**Location:** Tezak Processing Plant **Sample Number:** NFSLF-139-C

NewFields

Remarks:

Figure NFSLF139C

NewFields

Flexible Wall Hydraulic Conductivity
ASTM D5084

Client:	Cripple Crrek and Victor Gold Mines	Lab Sample No.:	NFSLF-139-C
Project:	Squaw Gulch VLF PH2A		
Project No.:	475.0106.032	Location:	Tezak Processing Plant
Phase:	2	Elevation/Depth:	Stockpile
Requested By:	JP	Tested By:	TW
Test Started:	9/17/2020	Checked By:	TW
Test Finished:	9/22/2020	Sample Description:	Brown clayey sand with gravel

Test Boundary Conditions	
Type of Permeant	De-aired Bottled
Magnitude of Back pressure (psi)	36
Saturated (Y/N):	Yes
Stage 1: Effective Stress (psi)	5
Sample Type	Remolded
Burrete Area (cm^2)	0.877

Test Specimen Data	Initial	During k Testing	Final
Wet Soil + Tare (g)	632.4		792.40
Dry Soil + Tare (g)	557.14		699.80
Tare (g)	0.00		119.00
Wt. of Water (g)	75.26		92.60
Dry Soil (g)	557.14		580.80
Moisture Content (%)	13.5		15.9
Sample Volume (ft^3)	0.01057	0.01043	
Dry Density (pcf)	116.3	117.0	
Wet Density (pcf)	131.8	135.7	
Saturation (%)	84.1	100.0	
Percent Compaction	95.2	95.9	
Height (in)	3.018	3.005	
Diameter (in)	2.777	2.765	
Area (in^2)	6.055	6.005	
Est. Moisture Content after Consolidation (%)		15.3%	
Est. Void Ratio after Consolidation		0.405	
Specific Gravity*	2.65		

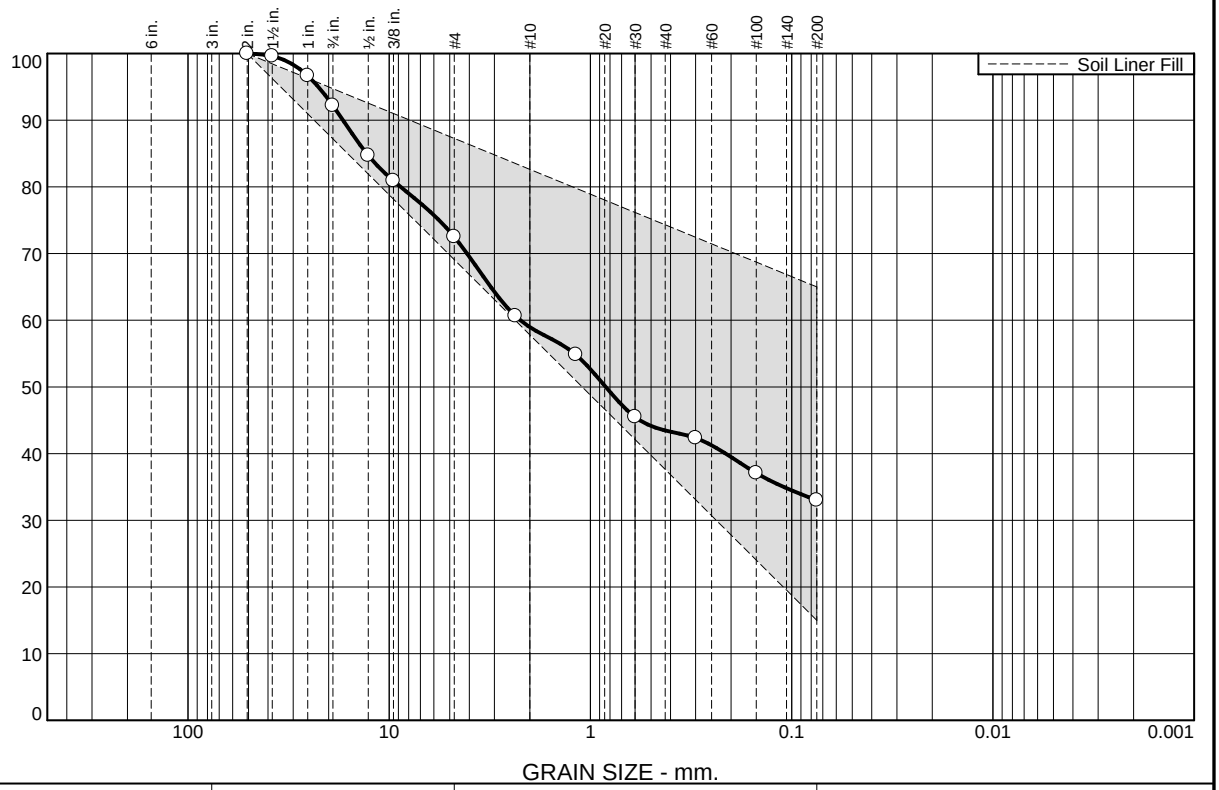
*Specific gravity is assumed

Maximum Dry Density:
ASTM D 698

Maximum Dry Density (pcf):	122.1
Initial Remolded Dry Density (pcf):	116.3
Initial Percent Compaction:	95%
Initial Void Ratio:	0.422
Optimum Moisture Content(%):	13.4
Initial Water Content (%):	13.5
Confining Pressure (psi):	5.0
Hydraulic Conductivity, k_{20} (cm/s):	**2.1E-07**
Gradient Range (h/L):	10.9 11.8

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	7.8	19.7	13.5	15.5	10.5	33.0	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2	100.0	100.0	
1.5	99.6		
1	96.7		
3/4"	92.2		
1/2"	84.7		
3/8"	80.9		
#4	72.5		
#8	60.6		
#16	54.8		
#30	45.5		
#50	42.3		
#100	37.1		
#200	33.0	15.0 - 65.0	

* Soil Liner Fill

Material Description

Brown clayey sand with gravel

Atterberg Limits

PL= 11 LL= 34 PI= 23

Coefficients

D_{90}= 16.9606 D_{85}= 12.9253 D_{60}= 2.2304
D_{50}= 0.8391 D_{30}= D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= SC AASHTO= A-2-6(2)

Remarks

Location: Tezak Processing Plant
Sample Number: NFSLF-140-C **Depth:** Stockpile **Date:** 7/27/2020

NewFields

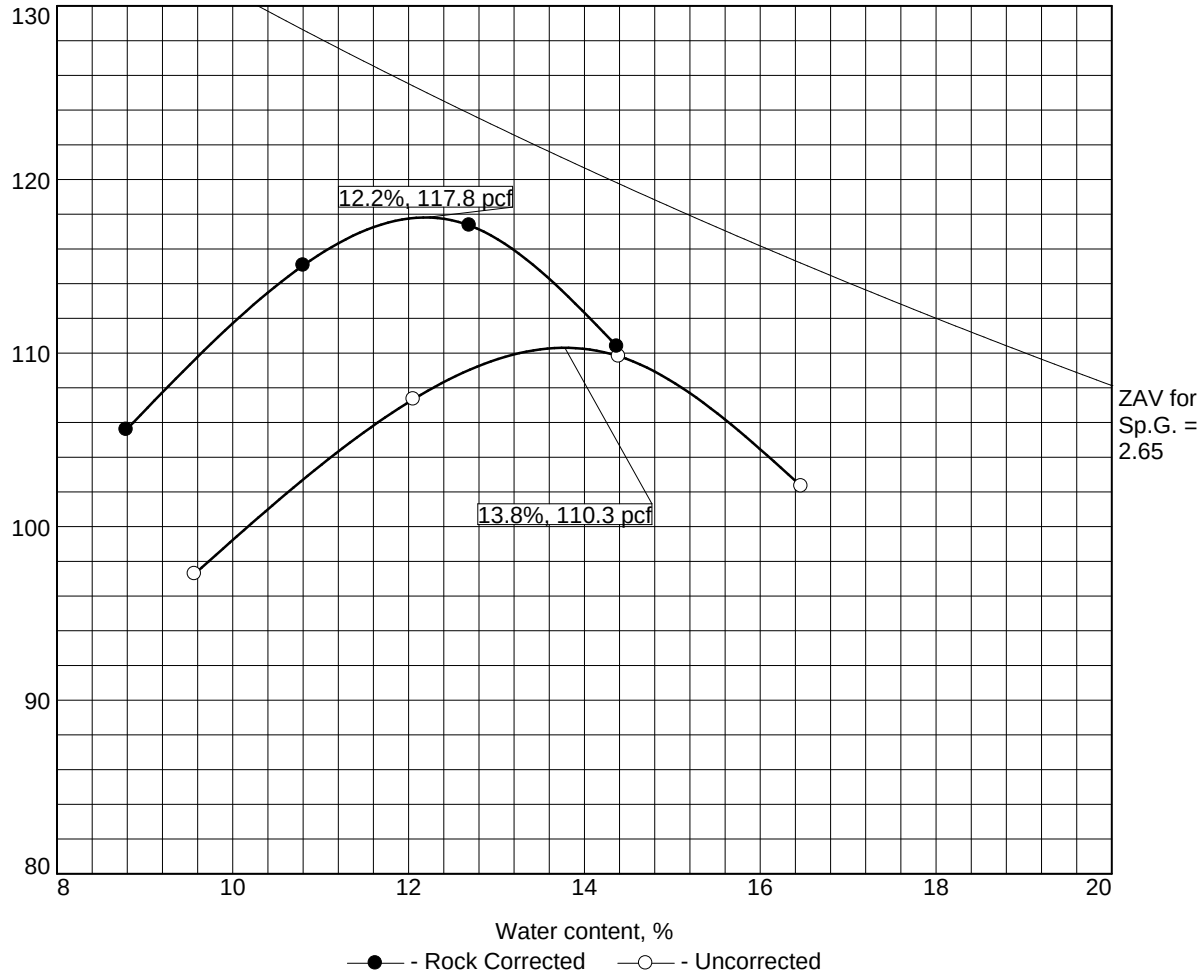
Client: CC&V Gold Mining Company
Project: VLF Phase 2B

Project No: 475.0106.032 **Figure** NFSLF140-C

Tested By: DC **Checked By:** TW

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

COMPACTION TEST REPORT



Test specification: ASTM D 1557-12 Method B Modified
ASTM D4718-15 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/8 in.	% < No.200
	USCS	AASHTO						
Stockpile	SC	A-2-6(2)	8.6	2.65	34	23	19.1	33.0

ROCK CORRECTED TEST RESULTS	UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 117.8 pcf	110.3 pcf	Brown clayey sand with gravel
Optimum moisture = 12.2 %	13.8 %	

Project No. 475.0106.032 **Client:** CC&V Gold Mining Company
Project: VLF Phase 2B

○**Location:** Tezak Processing Plant **Sample Number:** NFSLF-140-C

NewFields

Remarks:

Figure NFSLF140C

Tested By: DC **Checked By:** TW

NewFields

Flexible Wall Hydraulic Conductivity
ASTM D5084

Client:	Cripple Crrek and Victor Gold Mines	Lab Sample No.:	NFSLF-140-C
Project:	Squaw Gulch VLF PH2A		
Project No.:	475.0106.032	Location:	Tezak Processing Plant
Phase:	2	Elevation/Depth:	Stockpile
Requested By:	JP	Tested By:	TW
Test Started:	9/22/2020	Checked By:	TW
Test Finished:	7/22/2020	Sample Description:	Brown clayey gravel with sand

Test Boundary Conditions	
Type of Permeant	De-aired Bottled
Magnitude of Back pressure (psi)	36
Saturated (Y/N):	Yes
Stage 1: Effective Stress (psi)	5
Sample Type	Remolded
Burrete Area (cm^2)	0.877

Test Specimen Data	Initial	During k Testing	Final
Wet Soil + Tare (g)	601.56		795.40
Dry Soil + Tare (g)	540.80		708.60
Tare (g)	0.00		220.10
Wt. of Water (g)	60.76		86.80
Dry Soil (g)	540.80		488.50
Moisture Content (%)	11.2		17.8
Sample Volume (ft^3)	0.01054	0.01043	
Dry Density (pcf)	111.9	112.5	
Wet Density (pcf)	125.8	132.8	
Saturation (%)	68.8	100.0	
Percent Compaction	95.3	95.8	
Height (in)	3.016	3.007	
Diameter (in)	2.773	2.765	
Area (in^2)	6.041	6.004	
Est. Moisture Content after Consolidation (%)		17.5%	
Est. Void Ratio after Consolidation		0.465	
Specific Gravity*	2.65		

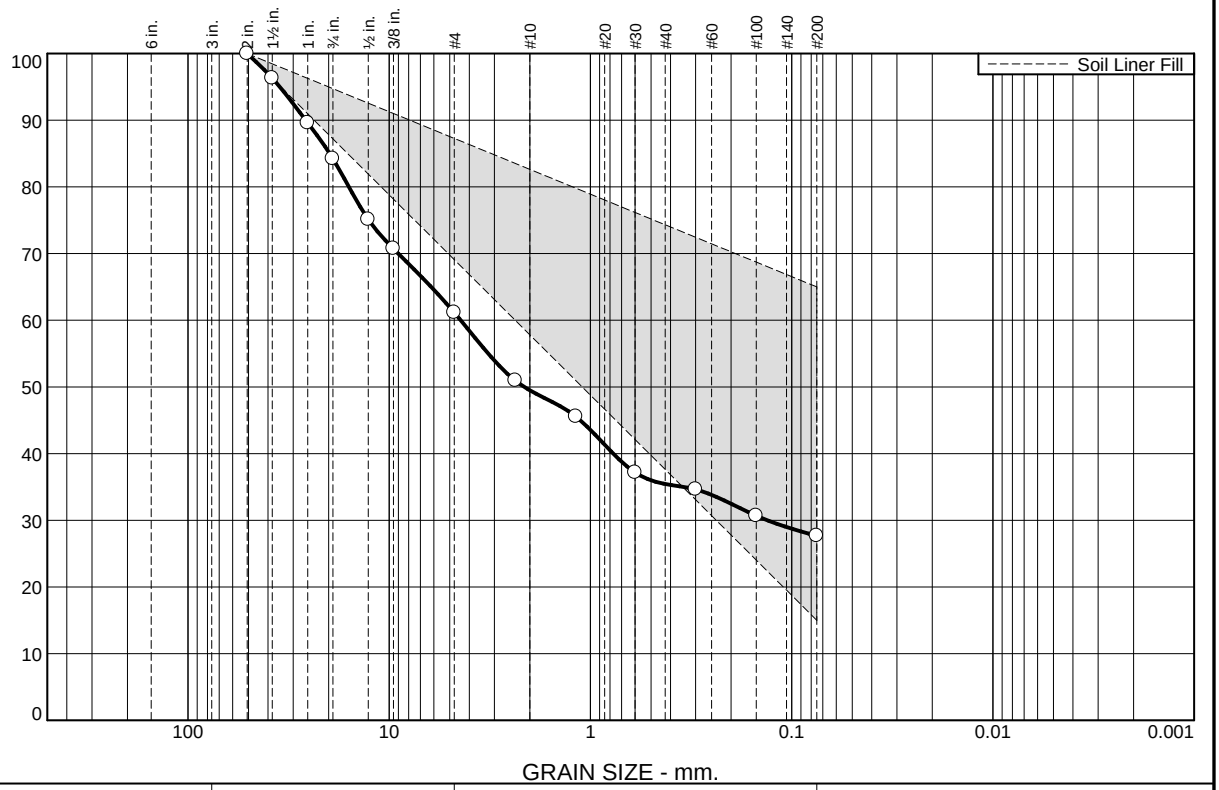
*Specific gravity is assumed

Maximum Dry Density:
ASTM D 698

Maximum Dry Density (pcf):	117.4
Initial Remolded Dry Density (pcf):	111.9
Initial Percent Compaction:	95%
Initial Void Ratio:	0.477
Optimum Moisture Content(%):	12.4
Initial Water Content (%):	11.2
Confining Pressure (psi):	5.0
Hydraulic Conductivity, k_{20} (cm/s):	**2.6E-07**
Gradient Range (h/L):	10.8 11.8

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	15.8	23.0	11.7	14.1	7.7	27.7	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2"	100.0	100.0	
1.5"	96.3		
1"	89.6		
3/4"	84.2		
1/2"	75.1		
3/8"	70.7		
#4	61.2		
#8	50.9		
#16	45.5		
#30	37.2		
#50	34.6		
#100	30.7		
#200	27.7	15.0 - 65.0	

* Soil Liner Fill

Material Description

Brown clayey gravel with sand

Atterberg Limits

PL= 10 LL= 33 PI= 23

Coefficients

D_{90}= 25.9910 D_{85}= 19.7671 D_{60}= 4.4107
D_{50}= 2.1322 D_{30}= 0.1322 D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= GC AASHTO= A-2-6(2)

Remarks

Location: Tezak Processing Plant
Sample Number: NFSLF-141-C **Depth:** Stockpile **Date:** 7/26/2020

NewFields

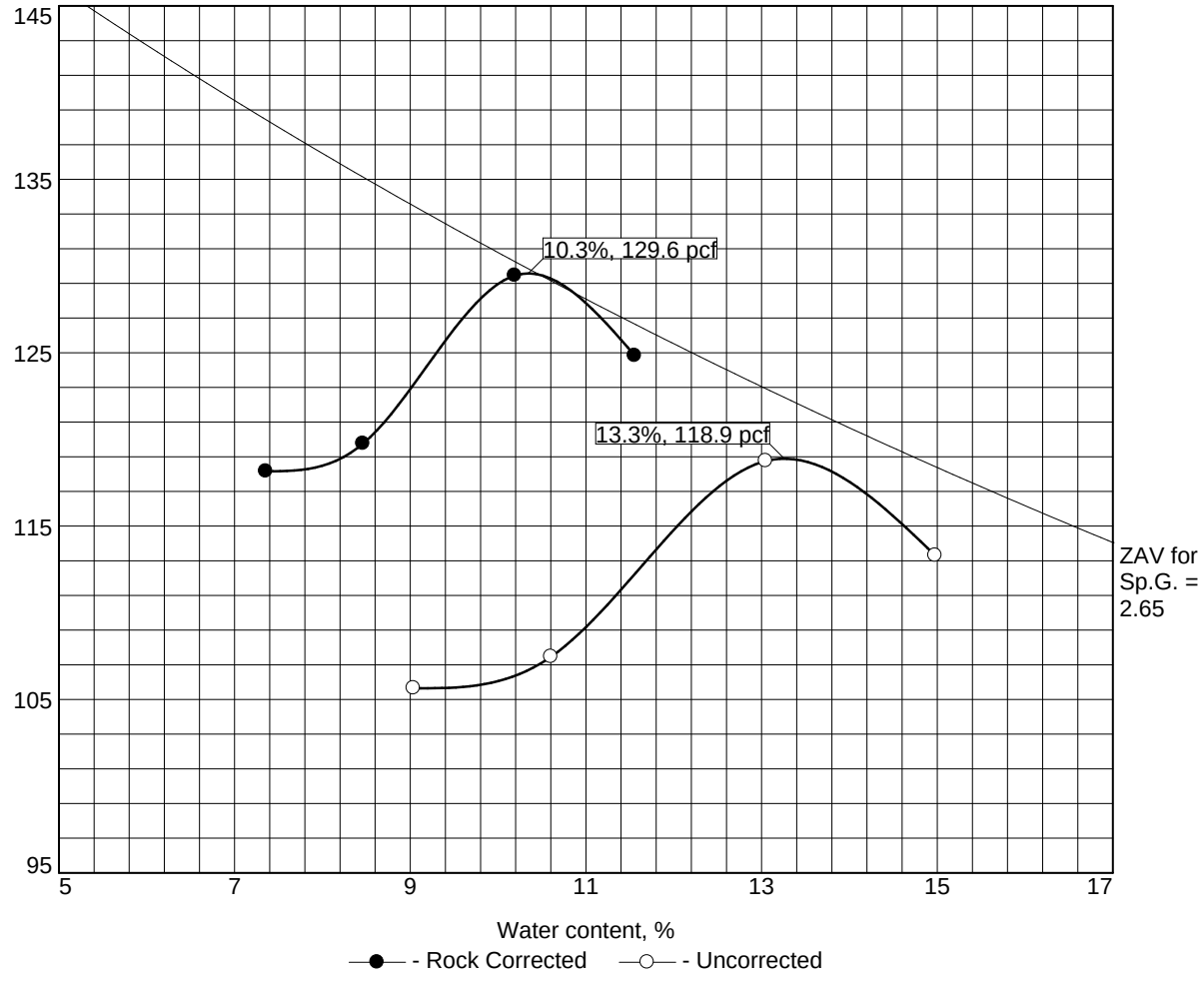
Client: CC&V Gold Mining Company
Project: VLF Phase 2B

Project No: 475.0106.032 **Figure** NFSLF141-C

Tested By: DC **Checked By:** TW

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

COMPACTION TEST REPORT



Test specification: ASTM D 1557-12 Method B Modified
ASTM D4718-15 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/8 in.	% < No.200
	USCS	AASHTO						
Stockpile	GC	A-2-6(2)	8.7	2.65	33	23	29.3	27.7

ROCK CORRECTED TEST RESULTS	UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 129.6 pcf	118.9 pcf	Brown clayey gravel with sand
Optimum moisture = 10.3 %	13.3 %	

Project No. 475.0106.032 **Client:** CC&V Gold Mining Company
Project: VLF Phase 2B

○**Location:** Tezak Processing Plant **Sample Number:** NFSLF-141-C

NewFields

Remarks:

Figure NFSLF141C

Tested By: DC **Checked By:** TW

NewFields

Flexible Wall Hydraulic Conductivity
ASTM D5084

Client:	Cripple Crrek and Victor Gold Mines	Lab Sample No.:	NFSLF-141-C
Project:	Squaw Gulch VLF PH2A		
Project No.:	475.0106.032	Location:	Tezak Processing Plant
Phase:	2	Elevation/Depth:	Stockpile
Requested By:	JP	Tested By:	TW
Test Started:	9/22/2020	Checked By:	TW
Test Finished:	9/26/2020	Sample Description:	Brown clayey gravel with sand

Test Boundary Conditions	
Type of Permeant	De-aired Bottled
Magnitude of Back pressure (psi)	36
Saturated (Y/N):	Yes
Stage 1: Effective Stress (psi)	5
Sample Type	Remolded
Burrete Area (cm^2)	0.877

Test Specimen Data	Initial	During k Testing	Final
Wet Soil + Tare (g)	652.81		716.00
Dry Soil + Tare (g)	590.79		659.50
Tare (g)	0.00		220.00
Wt. of Water (g)	62.02		56.50
Dry Soil (g)	590.79		439.50
Moisture Content (%)	10.5		12.9
Sample Volume (ft^3)	0.01057	0.01048	
Dry Density (pcf)	123.4	123.9	
Wet Density (pcf)	136.1	139.9	
Saturation (%)	80.4	100.0	
Percent Compaction	95.2	95.6	
Height (in)	3.017	3.009	
Diameter (in)	2.777	2.770	
Area (in^2)	6.055	6.026	
Est. Moisture Content after Consolidation (%)		12.5%	
Est. Void Ratio after Consolidation		0.330	
Specific Gravity*	2.65		

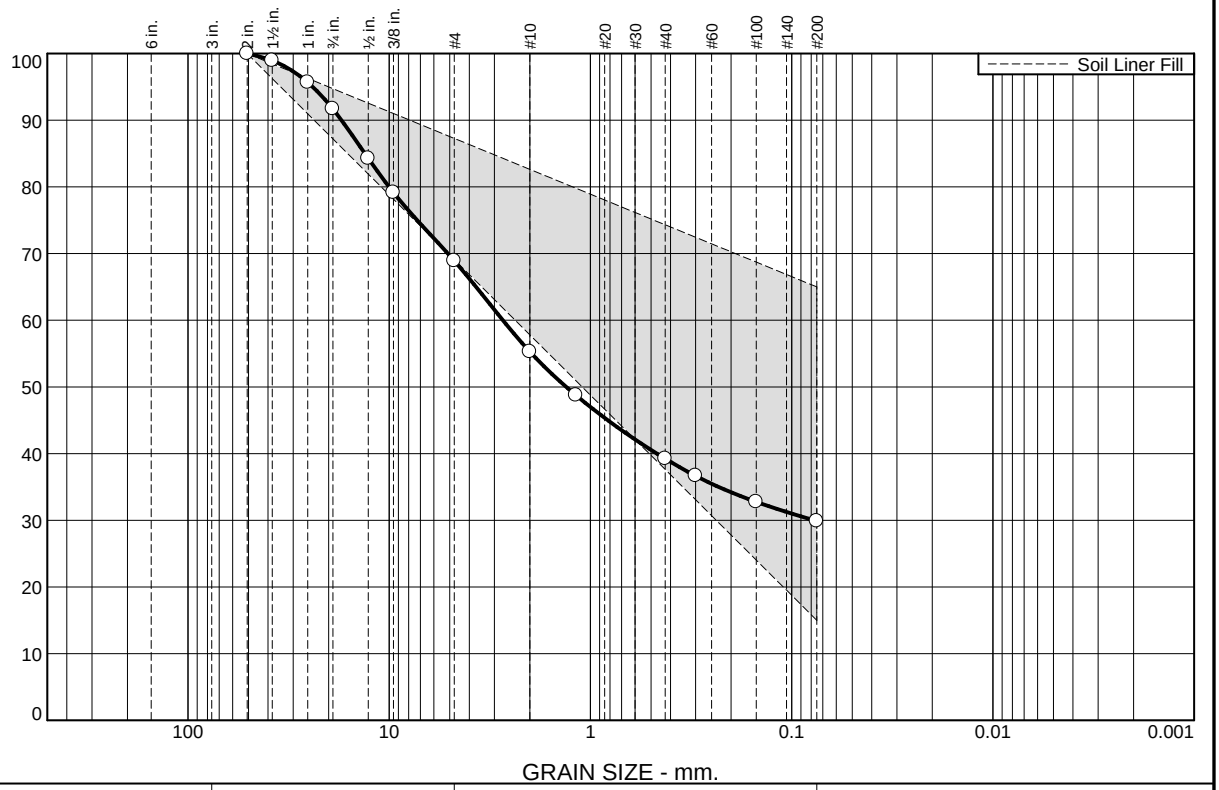
*Specific gravity is assumed

Maximum Dry Density:
ASTM D 698

Maximum Dry Density (pcf):	129.6
Initial Remolded Dry Density (pcf):	123.4
Initial Percent Compaction:	95%
Initial Void Ratio:	0.340
Optimum Moisture Content(%):	10.3
Initial Water Content (%):	10.5
Confining Pressure (psi):	5.0
Hydraulic Conductivity, k_{20} (cm/s):	**4.0E-07**
Gradient Range (h/L):	9.3 10.5

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	8.3	22.8	13.6	16.1	9.3	29.9	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2	100.0	100.0	
1.5	98.9		
1	95.7		
.75	91.7		
.5	84.3		
.375	79.2		
#4	68.9		
#10	55.3		
#16	48.8		
#40	39.2		
#50	36.7		
#100	32.8		
#200	29.9	15.0 - 65.0	

* Soil Liner Fill

Material Description

Brown clayey sand with gravel

Atterberg Limits

PL= 11 LL= 33 PI= 22

Coefficients

D_{90}= 17.2503 D_{85}= 13.1933 D_{60}= 2.7230
D_{50}= 1.3191 D_{30}= 0.0774 D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= SC AASHTO= A-2-6(2)

Remarks

Location: N 57,322 E 37,189
Sample Number: NFSLF-142-R **Depth:** FG **Date:** 8/10/2020

NewFields

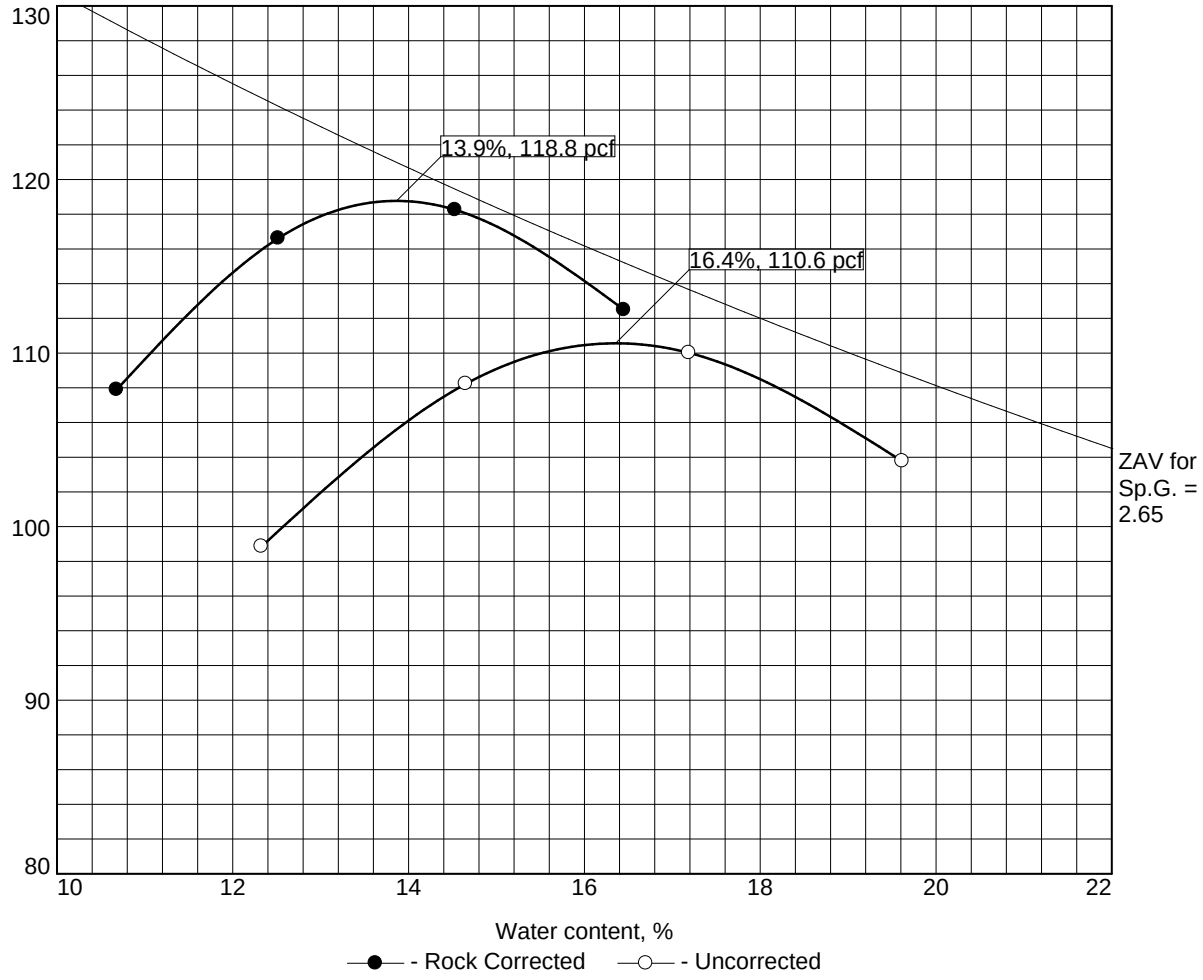
Client: CC&V Gold Mining Company
Project: VLF Phase 2B

Project No: 475.0106.032 **Figure** NFSLF142-R

Tested By: DC **Checked By:** TW

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

COMPACTION TEST REPORT



Test specification: ASTM D 1557-12 Method B Modified
ASTM D4718-15 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/8 in.	% < No.200
	USCS	AASHTO						
FG	SC	A-2-6(2)	10.5	2.65	33	22	20.8	29.9

ROCK CORRECTED TEST RESULTS	UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 118.8 pcf	110.6 pcf	Brown clayey sand with gravel
Optimum moisture = 13.9 %	16.4 %	

Project No. 475.0106.032 **Client:** CC&V Gold Mining Company
Project: VLF Phase 2B

○**Location:** N 57,322 E 37,189 **Sample Number:** NFSLF-142-R

NewFields

Remarks:

Figure NFSLF142R

Tested By: DC **Checked By:** TW

NewFields

Flexible Wall Hydraulic Conductivity
ASTM D5084

Client:	Cripple Crrek and Victor Gold Mines	Lab Sample No.:	NFSLF-142-C
Project:	Squaw Gulch VLF PH2A		
Project No.:	475.0106.032	Location:	Tezak Processing Plant
Phase:	2	Elevation/Depth:	Stockpile
Requested By:	JP	Tested By:	TW
Test Started:	9/23/2020	Checked By:	TW
Test Finished:	9/26/2020	Sample Description:	Brown clayey gravel with sand

Test Boundary Conditions	
Type of Permeant	De-aired Bottled
Magnitude of Back pressure (psi)	36
Saturated (Y/N):	Yes
Stage 1: Effective Stress (psi)	5
Sample Type	Remolded
Burrete Area (cm^2)	0.877

Test Specimen Data	Initial	During k Testing	Final
Wet Soil + Tare (g)	616.52		716.00
Dry Soil + Tare (g)	541.30		642.50
Tare (g)	0.00		220.00
Wt. of Water (g)	75.22		73.50
Dry Soil (g)	541.30		422.50
Moisture Content (%)	13.9		17.4
Sample Volume (ft^3)	0.01057	0.01047	
Dry Density (pcf)	112.8	113.3	
Wet Density (pcf)	128.6	133.2	
Saturation (%)	79.6	100.0	
Percent Compaction	95.3	95.7	
Height (in)	3.017	3.009	
Diameter (in)	2.777	2.769	
Area (in^2)	6.055	6.023	
Est. Moisture Content after Consolidation (%)		17.2%	
Est. Void Ratio after Consolidation		0.455	
Specific Gravity*	2.65		

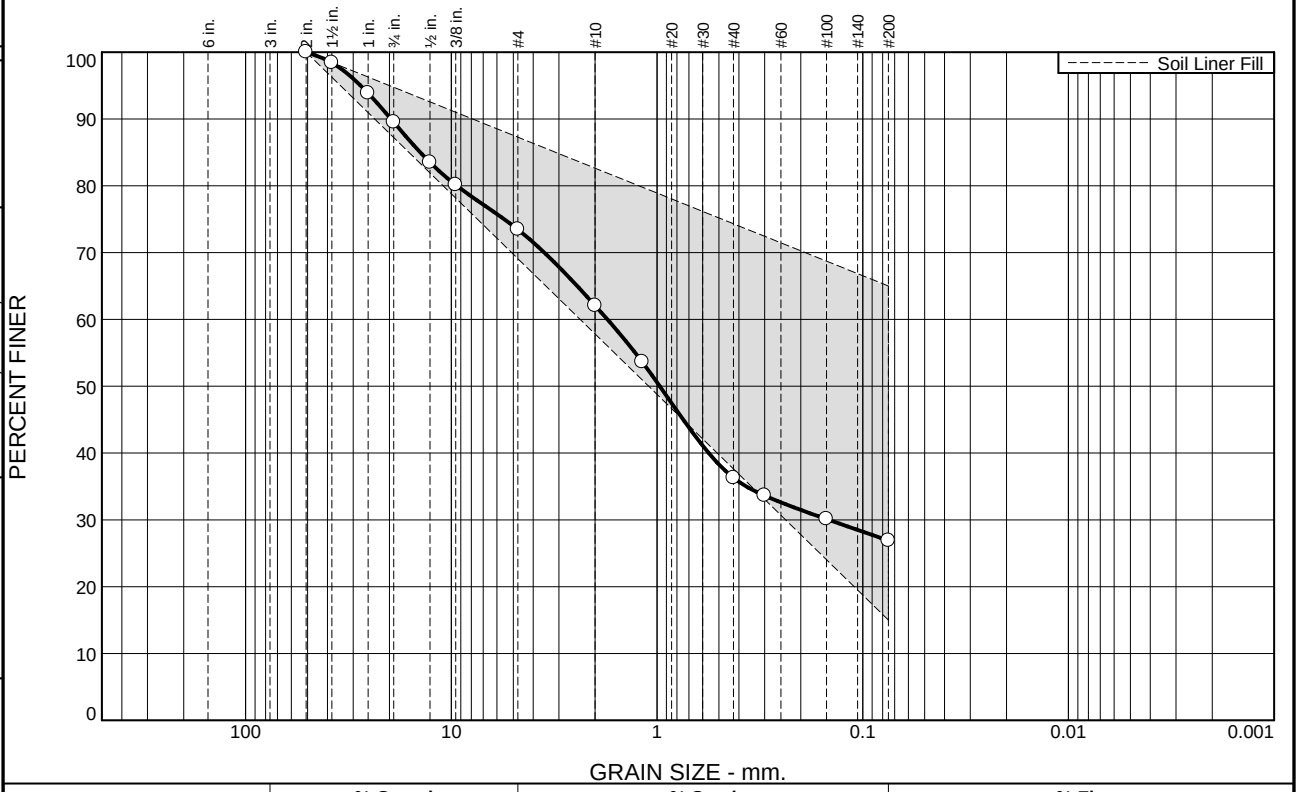
*Specific gravity is assumed

Maximum Dry Density:
ASTM D 698

Maximum Dry Density (pcf):	118.4
Initial Remolded Dry Density (pcf):	112.8
Initial Percent Compaction:	95%
Initial Void Ratio:	0.466
Optimum Moisture Content(%):	14.0
Initial Water Content (%):	13.9
Confining Pressure (psi):	5.0
Hydraulic Conductivity, k_{20} (cm/s):	**7.0E-07**
Gradient Range (h/L):	9.3 11.8

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	10.5	16.0	11.4	25.8	9.4	26.9	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2	100.0	100.0	
1.5	98.4		
1	93.9		
.75	89.5		
.5	83.5		
.375	80.1		
#4	73.5		
#10	62.1		
#16	53.6		
#40	36.3		
#50	33.6		
#100	30.1		
#200	26.9	15.0 - 65.0	

* Soil Liner Fill

Material Description

Dark brown clayey sand with gravel

Atterberg Limits

PL= 12 LL= 36 PI= 24

Coefficients

D_{90}= 19.6604 D_{85}= 14.1625 D_{60}= 1.7428
D_{50}= 0.9698 D_{30}= 0.1463 D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= SC AASHTO= A-2-6(2)

Remarks

Location: N 57,585 E 36,099
Sample Number: NFSLF-143-R **Depth:** FG **Date:** 08/31/2020

NewFields

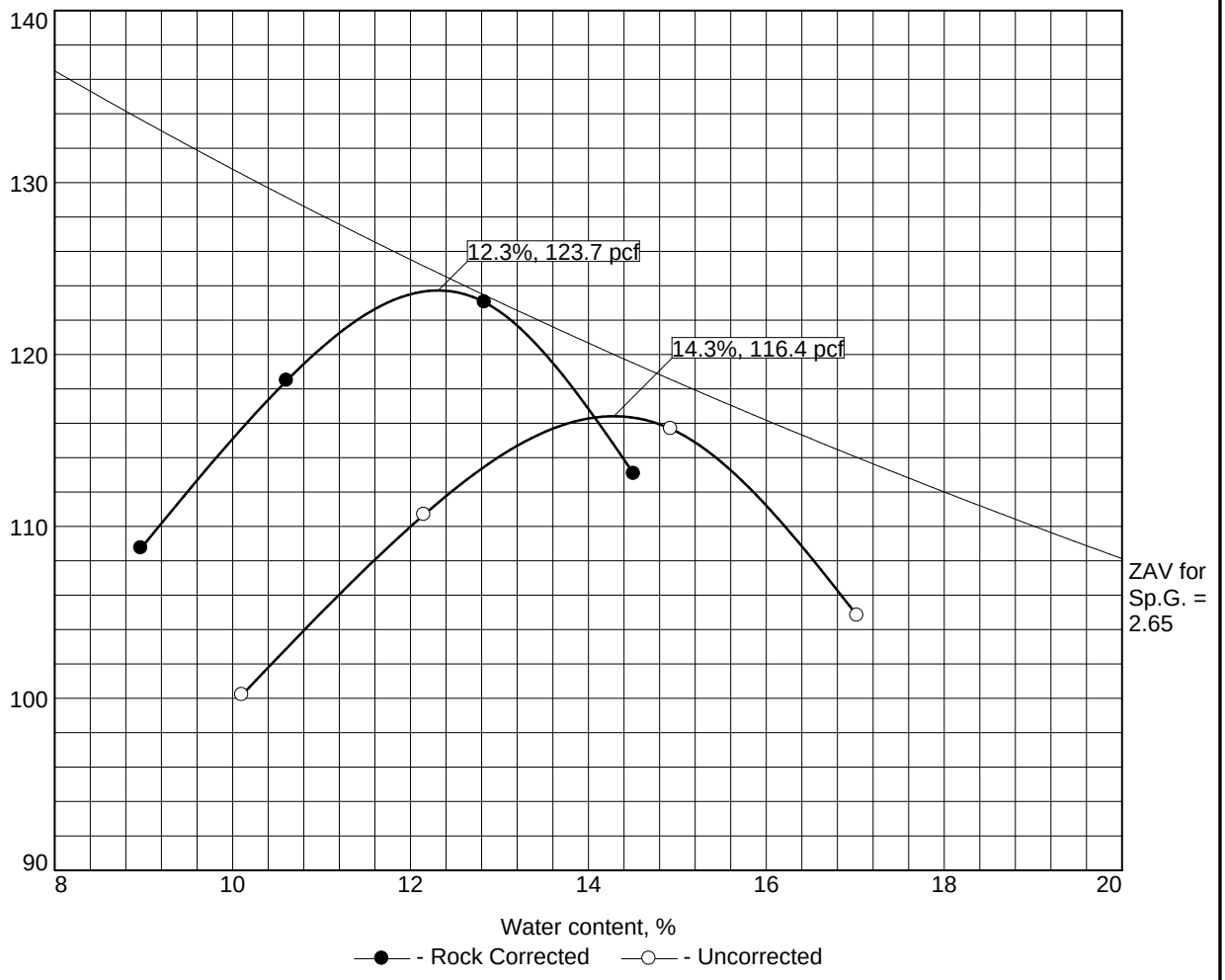
Client: CC&V Gold Mining Company
Project: VLF Phase 2B

Project No: 475.0106.032 **Figure** NFSLF143-R

Tested By: CZ **Checked By:** TW

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

COMPACTION TEST REPORT



Test specification: ASTM D 698-12 Method B Standard
ASTM D4718-15 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/8 in.	% < No.200
	USCS	AASHTO						
FG	SC	A-2-6(2)		2.65	36	24	19.9	26.9

ROCK CORRECTED TEST RESULTS	UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 123.7 pcf	116.4 pcf	Dark brown clayey sand with gravel
Optimum moisture = 12.3 %	14.3 %	

Project No. 475.0106.032 **Client:** CC&V Gold Mining Company
Project: VLF Phase 2B

○**Location:** N 57,585 E 36,099 **Sample Number:** NFSLF-143-R

NewFields

Remarks:

Figure NFSLF143R

Tested By: TT **Checked By:** TW

NewFields

Flexible Wall Hydraulic Conductivity
ASTM D5084

Client:	Cripple Crrek and Victor Gold Mines	Lab Sample No.:	NFSLF-143-R
Project:	Squaw Gulch VLF PH2A		
Project No.:	475.0106.032	Location:	Tezak Processing Plant
Phase:	2	Elevation/Depth:	Stockpile
Requested By:	JP	Tested By:	TW
Test Started:	9/28/2020	Checked By:	TW
Test Finished:	10/2/2020	Sample Description:	Brown clayey sand with gravel

Test Boundary Conditions	
Type of Permeant	De-aired Bottled
Magnitude of Back pressure (psi)	36
Saturated (Y/N):	Yes
Stage 1: Effective Stress (psi)	5
Sample Type	Remolded
Burrete Area (cm^2)	0.877

Test Specimen Data	Initial	During k Testing	Final
Wet Soil + Tare (g)	634.29		729.50
Dry Soil + Tare (g)	564.52		657.10
Tare (g)	0.00		220.00
Wt. of Water (g)	69.77		72.40
Dry Soil (g)	564.52		437.10
Moisture Content (%)	12.4		16.6
Sample Volume (ft^3)	0.01057	0.01047	
Dry Density (pcf)	117.8	118.3	
Wet Density (pcf)	132.3	136.4	
Saturation (%)	80.7	100.0	
Percent Compaction	95.2	95.6	
Height (in)	3.017	3.009	
Diameter (in)	2.777	2.769	
Area (in^2)	6.055	6.023	
Est. Moisture Content after Consolidation (%)		14.8%	
Est. Void Ratio after Consolidation		0.393	
Specific Gravity*	2.65		

*Specific gravity is assumed

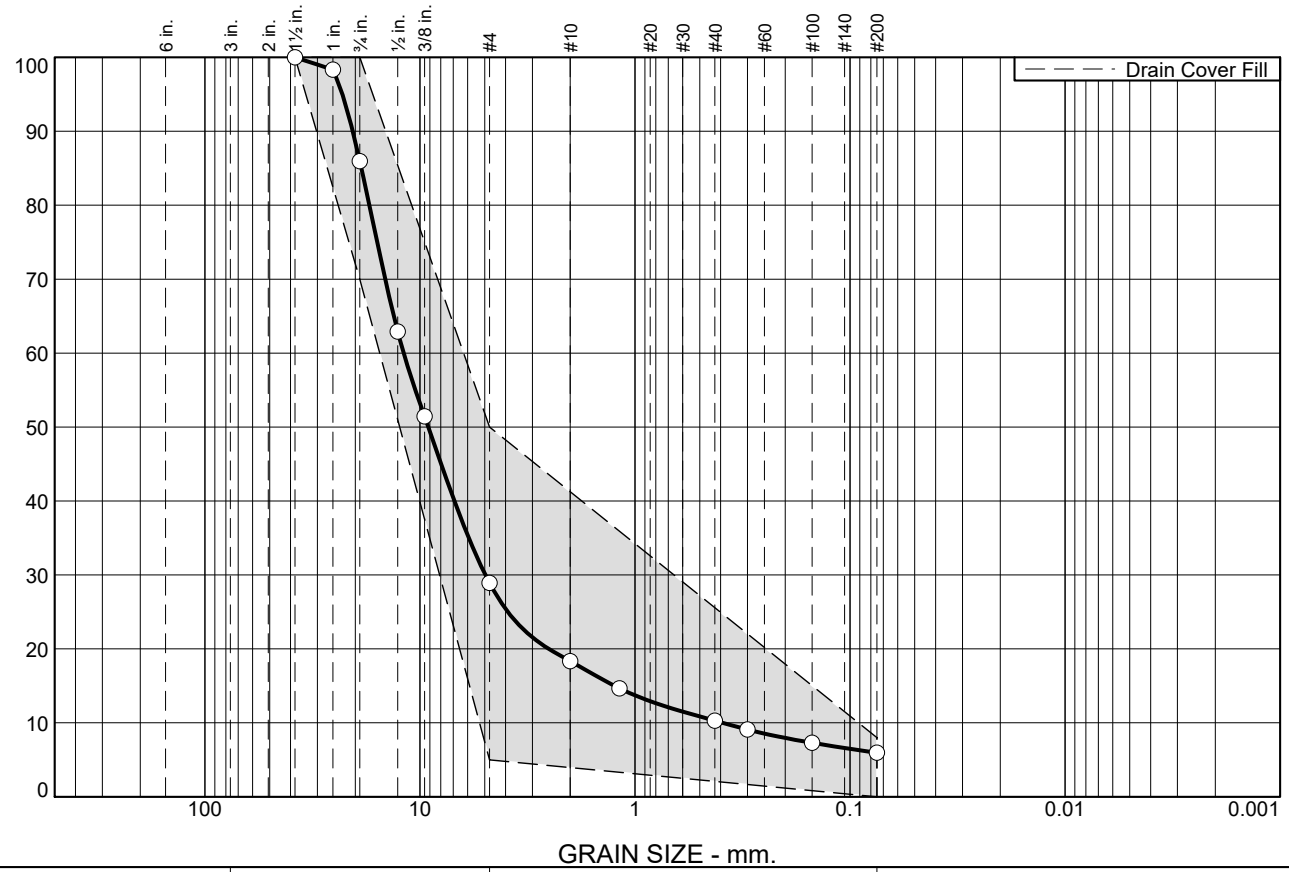
Maximum Dry Density:
ASTM D 698

Maximum Dry Density (pcf):	123.7
Initial Remolded Dry Density (pcf):	117.8
Initial Percent Compaction:	95%
Initial Void Ratio:	0.404
Optimum Moisture Content(%):	12.3
Initial Water Content (%):	12.4
Confining Pressure (psi):	5.0
Hydraulic Conductivity, k_{20} (cm/s):	**5.7E-07**
Gradient Range (h/L):	9.8 11.8

APPENDIX H.4 – DRAIN COVER FILL LABORATORY TEST RESULTS

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	14.0	57.1	10.6	8.0	4.3	6.0	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1.5	100.0	100.0	
1	98.3		
.75	86.0	70.0 - 100.0	
.5	62.9		
.375	51.4		
#4	28.9	5.0 - 50.0	
#10	18.3		
#16	14.7		
#40	10.3		
#50	9.1		
#100	7.3		
#200	6.0	0.0 - 8.0	

* Drain Cover Fill

Material Description

Light brown poorly graded gravel with siltyclay and sand

Atterberg Limits

PL= 14 LL= 21 PI= 7

Coefficients

D_{90}= 20.5499 D_{85}= 18.7273 D_{60}= 11.9136
D_{50}= 9.1527 D_{30}= 4.9664 D_{15}= 1.2453
D_{10}= 0.3908 C_u= 30.48 C_c= 5.30

Classification

USCS= GP-GC AASHTO= A-2-4(0)

Remarks

Location: P-3722
Sample Number: DCF-5-R **Depth:** FG **Date:** 09/28/2020

NewFields

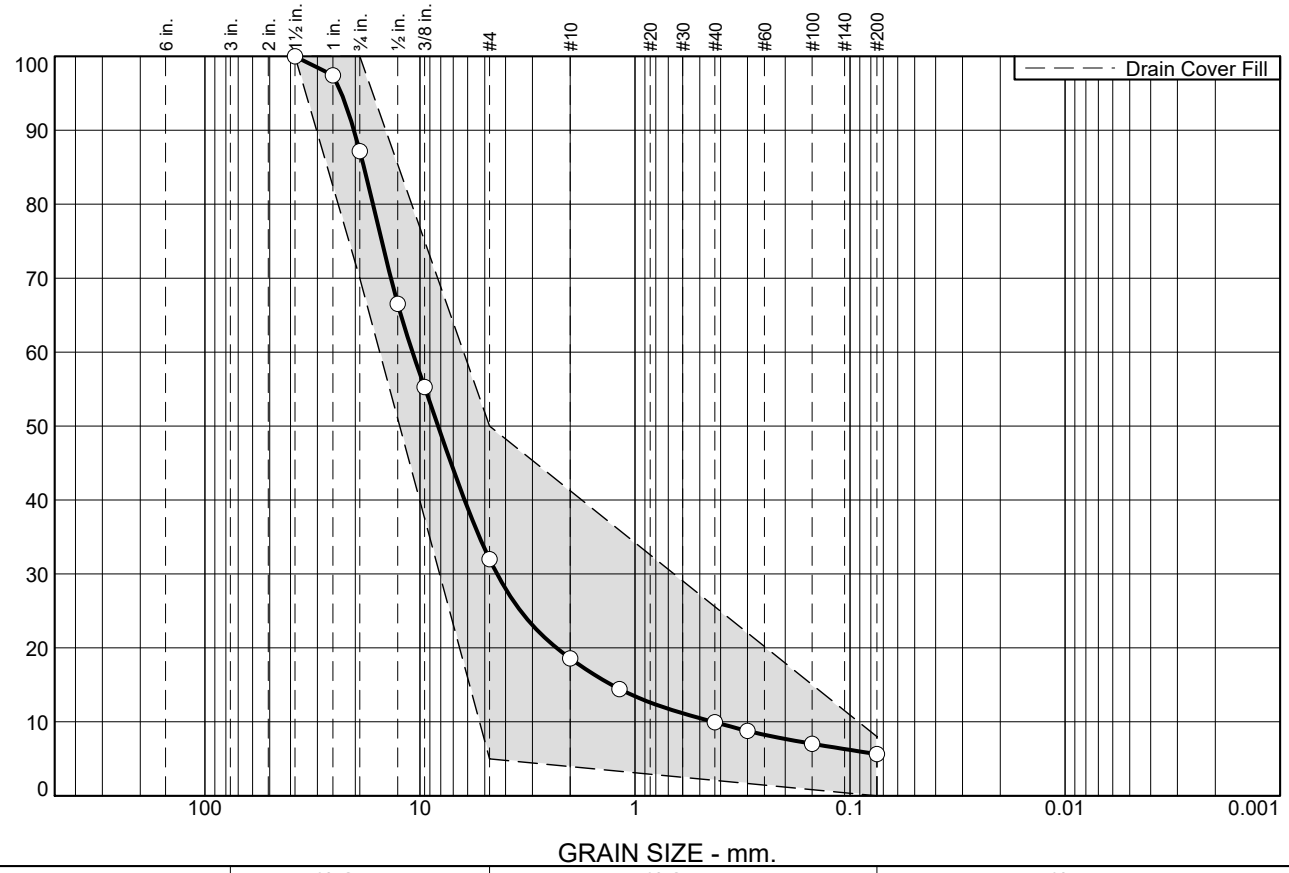
Client: CC&V Gold Mining Company
Project: VLF Phase 2B

Project No: 475.0106.032 **Figure** DCF-5-R

Tested By: TT **Checked By:** TW

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	12.8	55.2	13.4	8.7	4.3	5.6	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1.5	100.0	100.0	
1	97.4		
.75	87.2	70.0 - 100.0	
.5	66.5		
.375	55.3		
#4	32.0	5.0 - 50.0	
#10	18.6		
#16	14.4		
#40	9.9		
#50	8.8		
#100	7.0		
#200	5.6	0.0 - 8.0	

* Drain Cover Fill

Material Description

Light brown poorly graded gravel with silt and sand

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D_{90}= 20.2861 D_{85}= 18.2170 D_{60}= 10.8359
D_{50}= 8.2397 D_{30}= 4.3816 D_{15}= 1.2848
D_{10}= 0.4327 C_u= 25.04 C_c= 4.09

Classification

USCS= GP-GM AASHTO= A-1-a

Remarks

Location: P-3736
Sample Number: DCF-6-R **Depth:** FG **Date:** 09/28/2020

NewFields

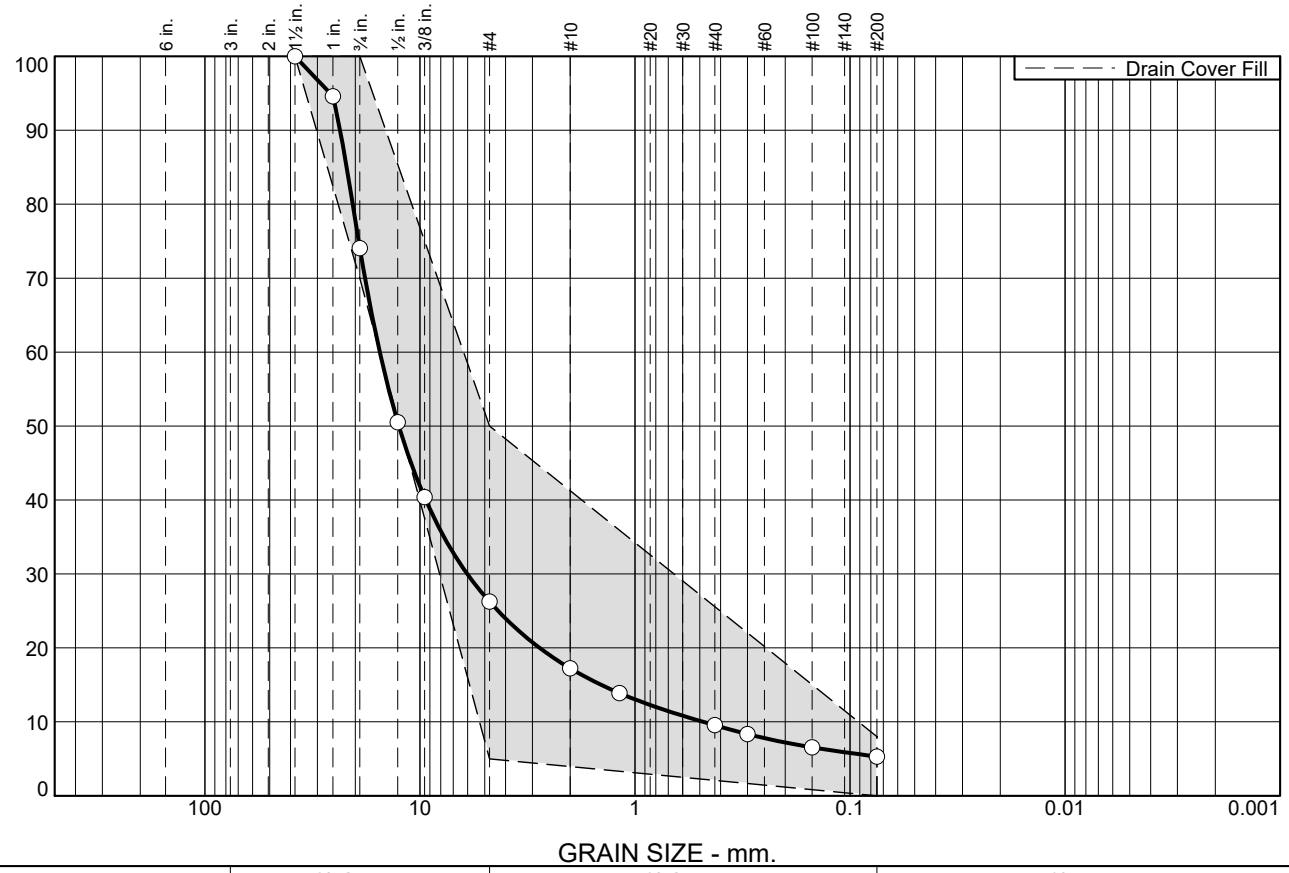
Client: CC&V Gold Mining Company
Project: VLF Phase 2B

Project No: 475.0106.032 **Figure** DCF-6-R

Tested By: TT **Checked By:** TW

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	25.9	47.8	9.1	7.7	4.2	5.3	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1.5	100.0	100.0	
1	94.6		
.75	74.1	70.0 - 100.0	
.5	50.5		
.375	40.4		
#4	26.3	5.0 - 50.0	
#10	17.2		
#16	13.9		
#40	9.5		
#50	8.3		
#100	6.6		
#200	5.3	0.0 - 8.0	

* Drain Cover Fill

Material Description

Gray poorly graded gravel with silt and sand

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D_{90}= 23.5007 D_{85}= 21.9269 D_{60}= 15.3778
D_{50}= 12.5457 D_{30}= 6.0274 D_{15}= 1.4369
D_{10}= 0.4817 C_u= 31.92 C_c= 4.90

Classification

USCS= GP-GM AASHTO= A-1-a

Remarks

Location: P-3757
Sample Number: DCF-7-R **Depth:** FG **Date:** 09/28/2020

NewFields

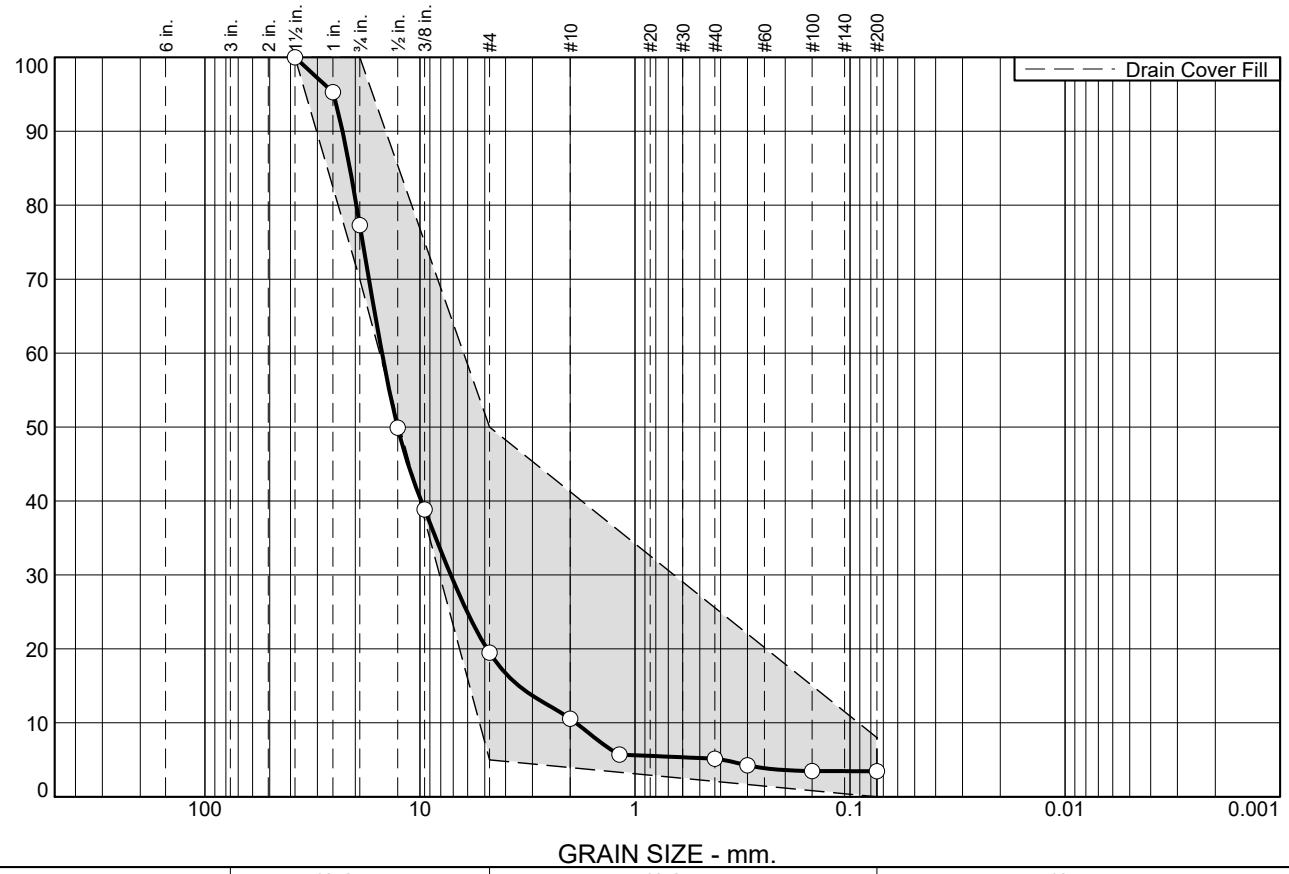
Client: CC&V Gold Mining Company
Project: VLF Phase 2B

Project No: 475.0106.032 **Figure** DCF-7-R

Tested By: KG **Checked By:** TW

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	22.7	57.8	9.0	5.3	1.7	3.5	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1.5	100.0	100.0	
1	95.3		
.75	77.3	70.0 - 100.0	
.5	49.9		
.375	38.9		
#4	19.5	5.0 - 50.0	
#10	10.5		
#16	5.7		
#40	5.2		
#50	4.3		
#100	3.5		
#200	3.5	0.0 - 8.0	

* Drain Cover Fill

Material Description

Grayish-brown well-graded gravel with sand

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D_{90}= 22.8991 D_{85}= 21.1935 D_{60}= 15.0167
D_{50}= 12.7202 D_{30}= 7.1888 D_{15}= 3.4664
D_{10}= 1.8848 C_u= 7.97 C_c= 1.83

Classification

USCS= GW AASHTO= A-1-a

Remarks

Location: P-3798
Sample Number: DCF-8-R **Depth:** FG **Date:** 09/30/2020

NewFields

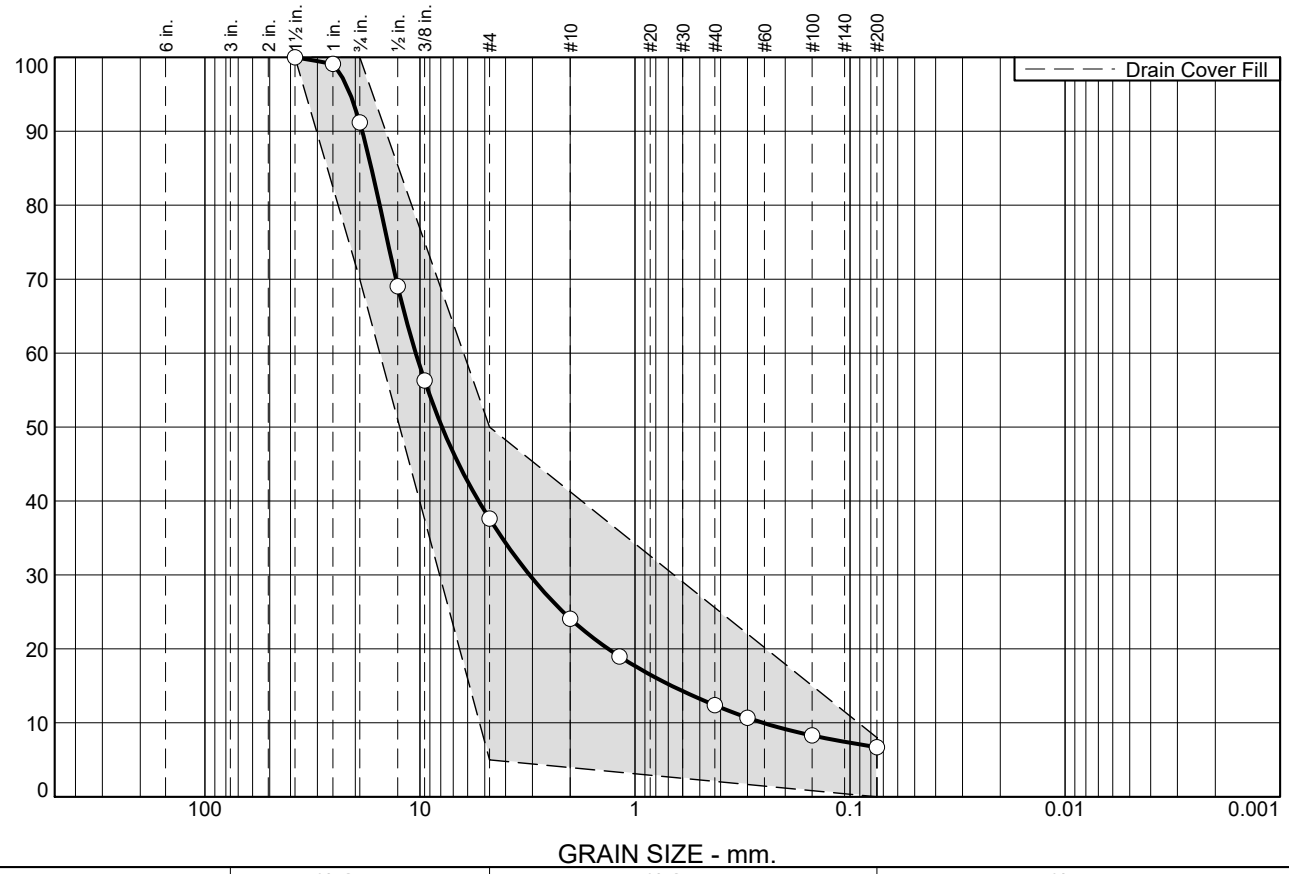
Client: CC&V Gold Mining Company
Project: VLF Phase 2B

Project No: 475.0106.032 **Figure** DCF-8-R

Tested By: KG **Checked By:** TW

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	8.8	53.6	13.5	11.7	5.7	6.7	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1.5	100.0	100.0	
1	99.1		
.75	91.2	70.0 - 100.0	
.5	69.0		
.375	56.3		
#4	37.6	5.0 - 50.0	
#10	24.1		
#16	19.0		
#40	12.4		
#50	10.7		
#100	8.3		
#200	6.7	0.0 - 8.0	

* Drain Cover Fill

Material Description

Gray poorly graded gravel with silt and sand

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D_{90}= 18.5484 D_{85}= 16.8088 D_{60}= 10.4685
D_{50}= 7.9002 D_{30}= 3.0917 D_{15}= 0.6744
D_{10}= 0.2541 C_u= 41.19 C_c= 3.59

Classification

USCS= GP-GM AASHTO= A-1-a

Remarks

Location: P-3812
Sample Number: DCF-9-R **Depth:** FG **Date:** 09/30/2020

NewFields

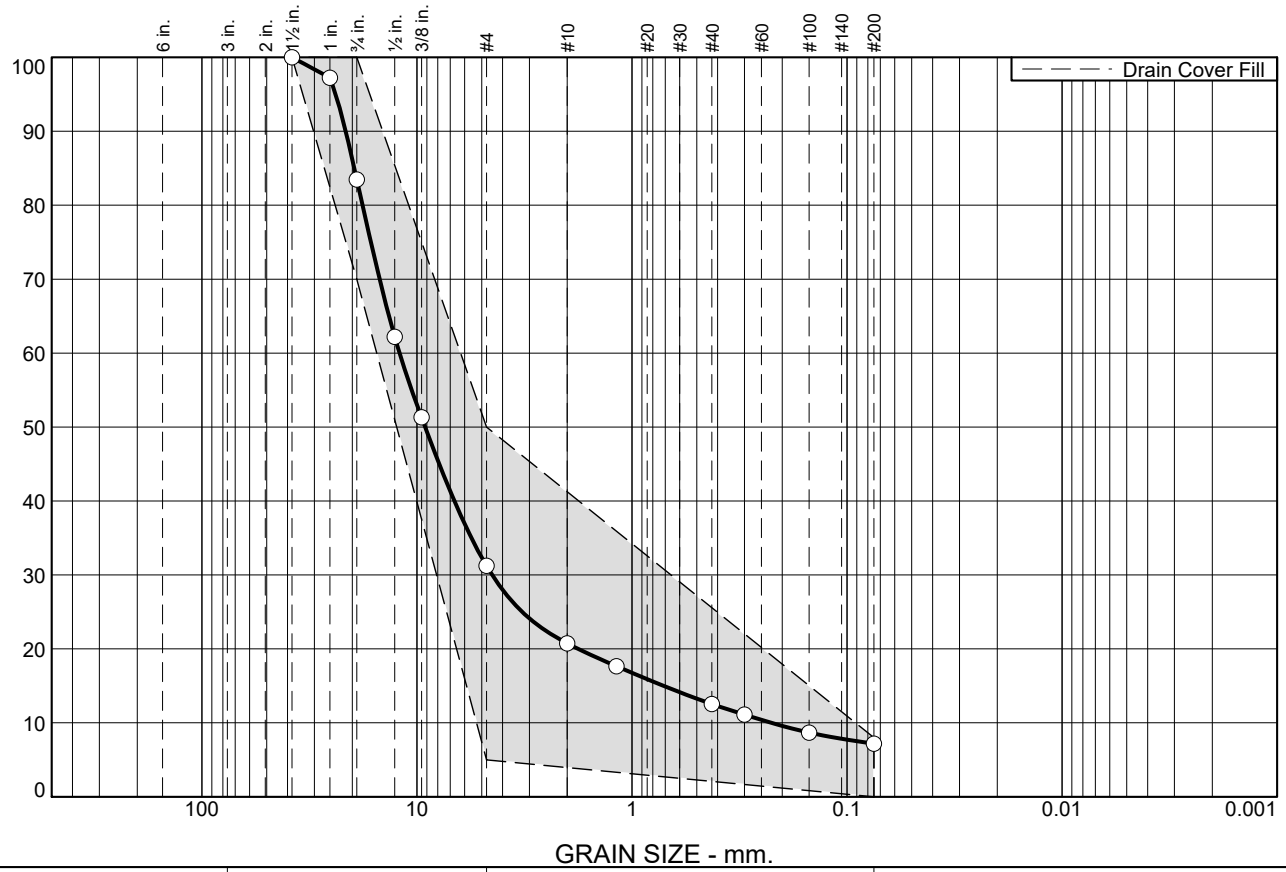
Client: CC&V Gold Mining Company
Project: VLF Phase 2B

Project No: 475.0106.032 **Figure** DCF-9-R

Tested By: KG **Checked By:** TW

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	16.5	52.3	10.4	8.3	5.3	7.2	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1.5	100.0	100.0	
1	97.2		
.75	83.5	70.0 - 100.0	
.5	62.2		
.375	51.3		
#4	31.2	5.0 - 50.0	
#10	20.8		
#16	17.7		
#40	12.5		
#50	11.1		
#100	8.7		
#200	7.2	0.0 - 8.0	

* Drain Cover Fill

Material Description

Light brown poorly graded gravel with siltyclay and sand

Atterberg Limits

PL= 19 LL= 25 PI= 6

Coefficients

D_{90}= 21.4540 D_{85}= 19.5740 D_{60}= 12.0585
D_{50}= 9.1658 D_{30}= 4.4708 D_{15}= 0.7134
D_{10}= 0.2246 C_u= 53.70 C_c= 7.38

Classification

USCS= GP-GC AASHTO= A-2-4(0)

Remarks

Location: P-3966
Sample Number: DCF-10R **Depth:** FG **Date:** 10/08/2020

NewFields

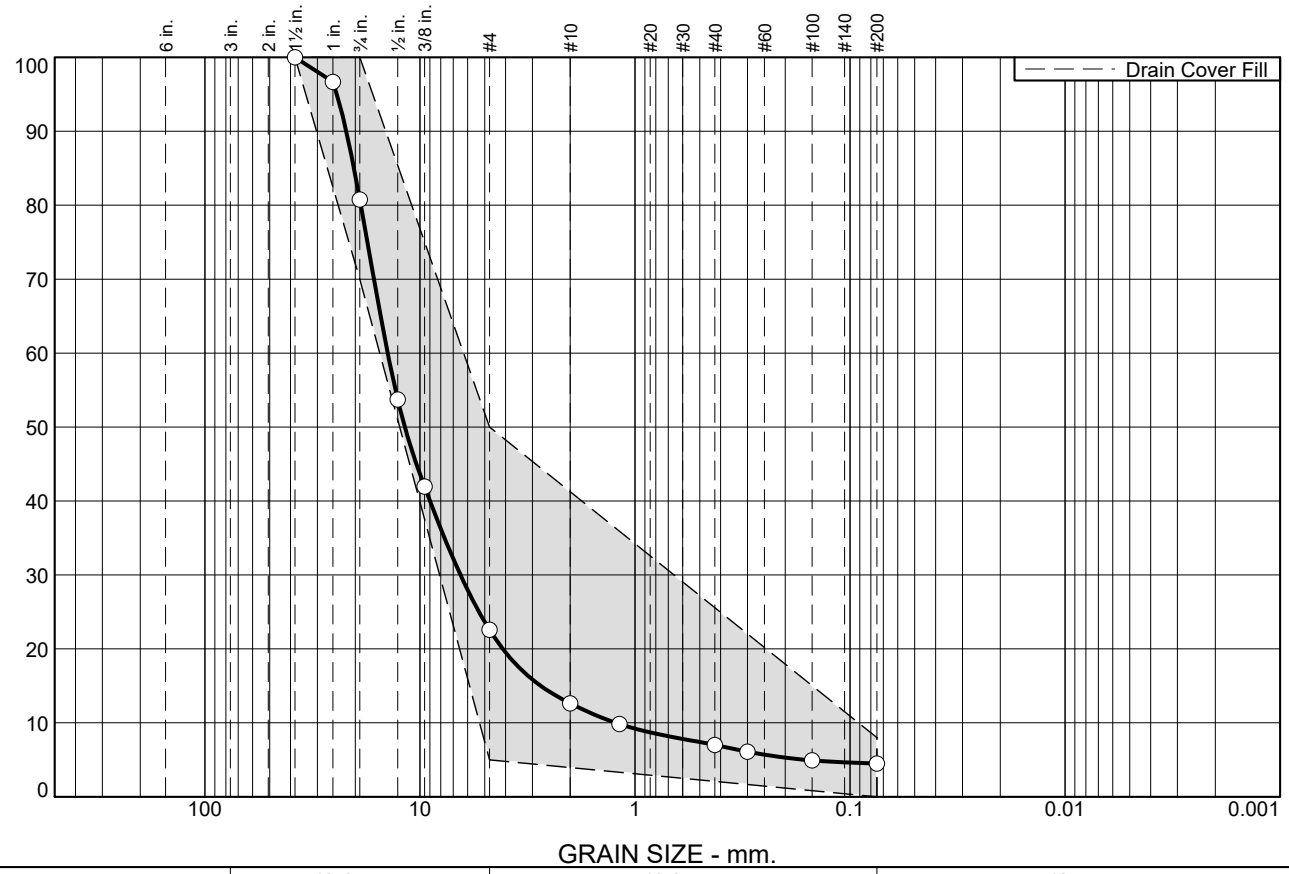
Client: CC&V Gold Mining Company
Project: VLF Phase 2B

Project No: 475.0106.032 **Figure** DCF-10-R

Tested By: CZ **Checked By:** TW

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	19.2	58.2	10.0	5.6	2.5	4.5	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1.5	100.0	100.0	
1	96.7		
.75	80.8	70.0 - 100.0	
.5	53.7		
.375	41.9		
#4	22.6	5.0 - 50.0	
#10	12.6		
#16	9.8		
#40	7.0		
#50	6.1		
#100	4.9		
#200	4.5	0.0 - 8.0	

* Drain Cover Fill

Material Description

Dark gray well-graded gravel with sand

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D_{90}= 22.0123 D_{85}= 20.2900 D_{60}= 14.1292
D_{50}= 11.7723 D_{30}= 6.4774 D_{15}= 2.7459
D_{10}= 1.2282 C_u= 11.50 C_c= 2.42

Classification

USCS= GW AASHTO= A-1-a

Remarks

Location: P-3942
Sample Number: DCF-11-R **Depth:** FG **Date:** 10/08/2020

NewFields

Client: CC&V Gold Mining Company
Project: VLF Phase 2B

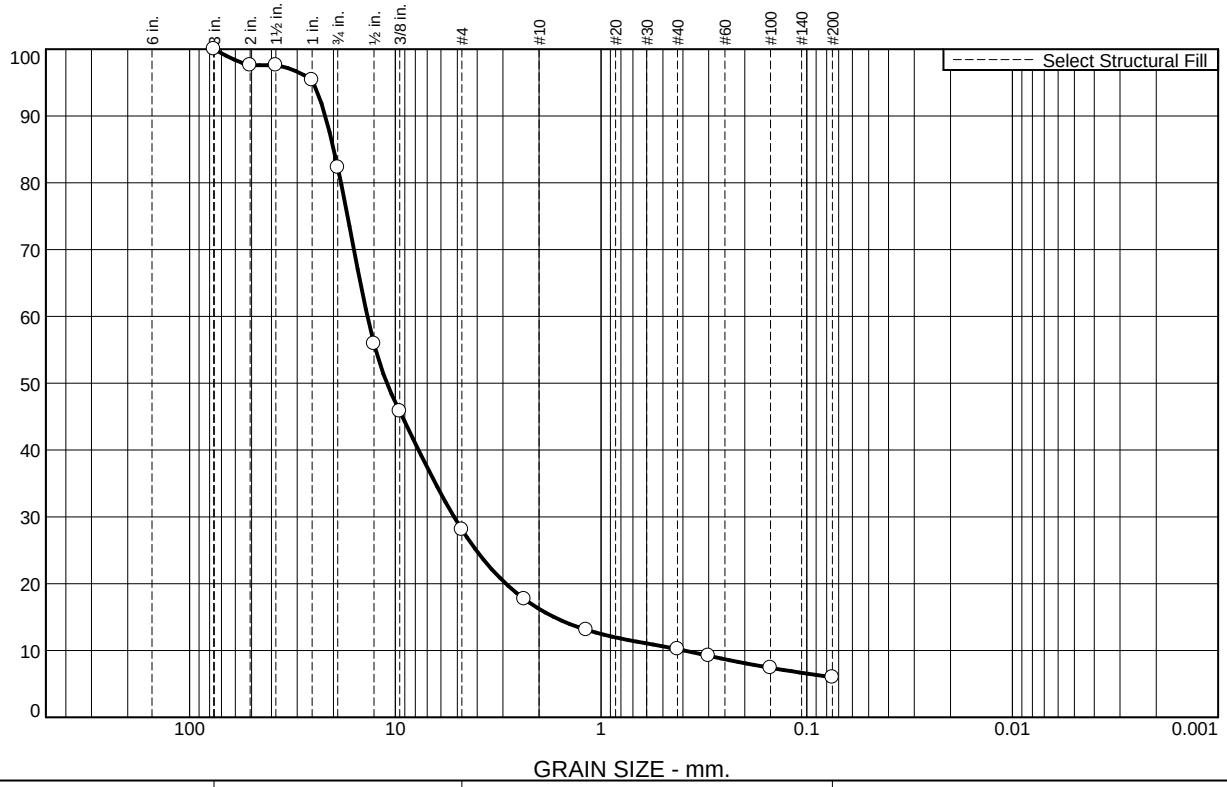
Project No: 475.0106.032 **Figure** DCF-11-R

Tested By: CZ **Checked By:** TW

APPENDIX H.5 – SELECT STRUCTURAL FILL LABORATORY TEST RESULTS

Test results included in this report relate only to the items inspected or tested. This report shall not be reproduced, in full, without prior written approval of NewFields.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	17.7	54.2	11.9	6.0	4.2	6.0	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3"	100.0	0.0 - 100.0	
2"	97.6		
1-1/2"	97.6		
1"	95.4		
3/4"	82.3		
1/2"	55.9		
3/8"	45.8		
#4	28.1		
#8	17.7		
#16	13.1		
#40	10.2		
#50	9.2		
#100	7.4		
#200	6.0		

* Select Structural Fill

Material Description

Light brown poorly graded gravel with silt and sand

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D_{90}= 21.9128 D_{85}= 19.9225 D_{60}= 13.6724
D_{50}= 10.9876 D_{30}= 5.1842 D_{15}= 1.6926
D_{10}= 0.3952 C_u= 34.60 C_c= 4.97

Classification

USCS= GP-GM AASHTO= A-1-a

Remarks

Natural Moisture: 5.1%

Location: N 58,039.7 E 35,934.1 Second Mat
Sample Number: SSF-4-R **Depth:** 10,019.5 **Date:** 11/07/2019

NewFields

Client: CC&V Gold Mining Company
Project: VLF Phase 2B

Project No: 475.0106.032 **Figure** SSF-4-R

Tested By: TW **Checked By:** TW

APPENDIX I – GEOSYNTHETICS QUALITY CONTROL DOCUMENTS AND INVENTORY

APPENDIX I.1 – 80MIL LLDPE GEOMEMBRANE INVENTORY CONTROL

APPENDIX I.2 – RESUMES OF INSTALLATION PERSONNEL

APPENDIX I.3 – 80MIL LLDPE GEOMEMBRANE ROLL QC CERTIFICATES

APPENDIX I.4 – 80MIL LLDPE GEOMEMBRANE RESIN QC CERTIFICATES

APPENDIX I.5 – WELDING ROD QUALITY CONTROL CERTIFICATES

APPENDIX 1.6 – GEOTEXILE ROLL QUALITY CONTROL CERTIFICATES

APPENDIX 1.7 – GEOGRID ROLL QUALITY CONTROL CERTIFICATES

APPENDIX I.1 – 80MIL LLDPE GEOMEMBRANE INVENTORY CONTROL

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2A Part 3 Record of Construction
80-mil LLDPE Geomembrane Site Inventory Control

Roll Number	Resin Lot Number	Width (ft)	Length (ft)	Area (sf)	Conformance Test	Agru QC Certification	Resin Certification	Site Delivery Date
FNB0047810003	DKJ810770	23	410	9,430	X	X	X	12/11/19
FNB0047810004	DKJ810770	23	410	9,430		X	X	12/11/19
FNB0047810005	DKJ810770	23	410	9,430		X	X	12/11/19
FNB0047810006	DKJ810770	23	410	9,430		X	X	12/11/19
FNB0047810007	DKJ810770	23	410	9,430		X	X	12/11/19
FNB0047810008	DKJ810770	23	410	9,430		X	X	12/11/19
FNB0047810009	DKJ810770	23	410	9,430		X	X	12/11/19
FNB0047810010	DKJ810770	23	410	9,430		X	X	12/11/19
FNB0047810011	DKJ810770	23	410	9,430		X	X	12/11/19
FNB0047810012	DKJ810770	23	410	9,430		X	X	12/11/19
FNB0047810013	DKJ810770	23	410	9,430		X	X	12/11/19
FNB0047810014	DKJ810770	23	410	9,430		X	X	12/11/19
FNB0047810015	DKJ810770	23	410	9,430		X	X	12/11/19
FNB0047810016	DKJ810770	23	410	9,430		X	X	12/11/19
FNB0047810017	DKJ810770	23	410	9,430		X	X	12/11/19
FNB0047810018	DKJ810770	23	410	9,430	X	X	X	12/11/19
FNB0047810019	DKJ810770	23	410	9,430		X	X	12/11/19
FNB0047810020	DKJ810770	23	410	9,430		X	X	12/11/19
FNB0047810021	DKJ810770	23	410	9,430		X	X	12/11/19
FNB0047810022	DKJ810770	23	410	9,430		X	X	12/11/19
FNB0047810023	DKJ810770	23	410	9,430		X	X	12/11/19
FNB0047810024	DKJ810770	23	410	9,430		X	X	12/11/19
FNB0047810025	DKJ810770	23	410	9,430		X	X	12/11/19
FNB0047810026	DKJ810770	23	410	9,430		X	X	12/11/19
FNB0047810027	DKJ810770	23	410	9,430		X	X	12/11/19
FNB0047810028	DKJ810770	23	410	9,430		X	X	12/11/19
FNB0047810029	DKJ810770	23	410	9,430		X	X	12/11/19
FNB0047810030	DKJ810770	23	410	9,430		X	X	12/11/19
FNB0047810031	DKJ810770	23	410	9,430		X	X	12/11/19
FNB0047810032	DKJ810770	23	410	9,430		X	X	12/11/19
FNB0047810033	DKJ810770	23	410	9,430	X	X	X	12/11/19
FNB0047810034	DKJ810770	23	410	9,430		X	X	12/11/19
FNB0047810035	DKJ810770	23	410	9,430		X	X	12/11/19
FNB0047810036	DKJ810770	23	410	9,430		X	X	12/11/19
FNB0047810037	DKJ810770	23	410	9,430		X	X	12/11/19
FNB0047810038	DKJ810770	23	410	9,430		X	X	12/11/19
FNB0047810039	DKJ810770	23	410	9,430		X	X	12/11/19
FNB0047810040	DKJ810770	23	410	9,430		X	X	12/11/19
FNB0047810041	DKJ810770	23	410	9,430		X	X	12/11/19
FNB0047810042	DKJ810770	23	410	9,430		X	X	12/11/19
FNB0047810043	DKJ810770	23	410	9,430		X	X	12/11/19
FNB0047810044	DKJ810770	23	410	9,430		X	X	12/11/19
FNB0047810045	DKJ810770	23	410	9,430		X	X	12/11/19

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2A Part 3 Record of Construction
80-mil LLDPE Geomembrane Site Inventory Control

Roll Number	Resin Lot Number	Width (ft)	Length (ft)	Area (sf)	Conformance Test	Agru QC Certification	Resin Certification	Site Delivery Date
FNB0047810046	DKJ810770	23	410	9,430		X	X	12/11/19
FNB0047810047	DKJ810770	23	410	9,430		X	X	12/11/19
FNB0047810048	DKJ810770	23	410	9,430	X	X	X	12/11/19
FNB0047810049	DKJ810770	23	410	9,430		X	X	12/11/19
FNB0047810050	DKJ810770	23	410	9,430		X	X	12/11/19
FNB0047810051	DKJ810770	23	410	9,430		X	X	12/13/19
FNB0047810052	DKJ810770	23	410	9,430		X	X	12/13/19
FNB0047810053	DKJ810770	23	410	9,430		X	X	12/13/19
FNB0047810054	DKJ810770	23	410	9,430		X	X	12/13/19
FNB0047810055	DKJ810770	23	410	9,430		X	X	12/13/19
FNB0047810056	DKJ810770	23	410	9,430		X	X	12/13/19
FNB0047810057	DKJ810770	23	410	9,430		X	X	12/13/19
FNB0047810058	DKJ810770	23	410	9,430		X	X	12/13/19
FNB0047810059	DKJ810770	23	410	9,430		X	X	12/13/19
FNB0047810060	DKJ810770	23	410	9,430		X	X	12/13/19
FNB0047810061	DKJ810770	23	410	9,430		X	X	12/13/19
FNB0047810062	DKJ810770	23	410	9,430		X	X	12/13/19
FNB0047810063	DKJ810770	23	410	9,430	X	X	X	12/12/19
FNB0047810064	DKJ810770	23	410	9,430		X	X	12/12/19
FNB0047810065	DKJ810770	23	410	9,430		X	X	12/12/19
FNB0047810066	DKJ810770	23	410	9,430		X	X	12/12/19
FNB0047810067	DKJ810770	23	410	9,430		X	X	12/12/19
FNB0047810068	DKJ810770	23	410	9,430		X	X	12/12/19
FNB0047810069	DKJ810770	23	410	9,430		X	X	12/12/19
FNB0047810070	DKJ810770	23	410	9,430		X	X	12/12/19
FNB0047810071	DKJ810770	23	410	9,430		X	X	12/12/19
FNB0047810072	DKJ810770	23	410	9,430		X	X	12/12/19
FNB0047810073	DKJ810770	23	410	9,430		X	X	12/12/19
FNB0047810074	DKJ810770	23	410	9,430		X	X	12/12/19
FNB0047810075	DKJ810770	23	410	9,430		X	X	12/16/19
FNB0047810076	DKJ810770	23	410	9,430		X	X	12/16/19
FNB0047810077	DKJ810770	23	410	9,430		X	X	12/16/19
FNB0047810078	DKJ810770	23	410	9,430	X	X	X	12/16/19
FNB0047810079	DKJ810770	23	410	9,430		X	X	12/16/19
FNB0047810080	DKJ810770	23	410	9,430		X	X	12/16/19
FNB0047810081	DKJ810770	23	410	9,430		X	X	12/16/19
FNB0047810082	DKJ810770	23	410	9,430		X	X	12/16/19
FNB0047810083	DKJ810770	23	410	9,430		X	X	12/16/19
FNB0047810084	DKJ810770	23	410	9,430		X	X	12/16/19
FNB0047810085	DKJ810770	23	410	9,430	X	X	X	12/16/19
FNB0047810086	DKJ810770	23	410	9,430		X	X	12/16/19
FNB0047810087	DKJ810770	23	410	9,430		X	X	12/16/19
FNB0047810088	DKJ810770	23	410	9,430		X	X	12/16/19
FNB0047810089	DKJ810770	23	410	9,430		X	X	12/16/19
FNB0047810090	DKJ810770	23	410	9,430		X	X	12/16/19
FNB0047810091	DKJ810770	23	410	9,430		X	X	12/16/19

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2A Part 3 Record of Construction
80-mil LLDPE Geomembrane Site Inventory Control

Roll Number	Resin Lot Number	Width (ft)	Length (ft)	Area (sf)	Conformance Test	Agru QC Certification	Resin Certification	Site Delivery Date
FNB0047810092	DKJ810770	23	410	9,430		X	X	12/16/19
FNB0047810093	DKJ810770	23	410	9,430		X	X	12/16/19
FNB0047810094	DKJ810770	23	410	9,430		X	X	12/16/19
FNB0047810095	DKK810700	23	410	9,430		X	X	12/16/19
FNB0047810096	DKK810700	23	410	9,430		X	X	12/16/19
FNB0047810097	DKK810700	23	410	9,430		X	X	12/16/19
FNB0047810098	DKK810700	23	410	9,430		X	X	12/16/19
FNB0047810099	DKK810700	23	410	9,430		X	X	12/17/19
FNB0047810100	DKK810700	23	410	9,430	X	X	X	12/17/19
FNB0047810101	DKK810700	23	410	9,430		X	X	12/17/19
FNB0047810102	DKK810700	23	410	9,430		X	X	12/17/19
FNB0047810103	DKK810700	23	410	9,430		X	X	12/17/19
FNB0047810104	DKK810700	23	410	9,430		X	X	12/17/19
FNB0047810105	DKK810700	23	410	9,430		X	X	12/17/19
FNB0047810106	DKK810700	23	410	9,430		X	X	12/17/19
FNB0047810107	DKK810700	23	410	9,430		X	X	12/17/19
FNB0047810108	DKK810700	23	410	9,430		X	X	12/17/19
FNB0047810109	DKK810700	23	410	9,430		X	X	12/17/19
FNB0047810110	DKK810700	23	410	9,430		X	X	12/17/19
FNB0047810111	DKK810700	23	410	9,430		X	X	12/17/19
FNB0047810112	DKK810700	23	410	9,430		X	X	12/17/19
FNB0047810113	DKK810700	23	410	9,430		X	X	12/17/19
FNB0047810114	DKK810700	23	410	9,430		X	X	12/17/19
FNB0047810115	DKK810700	23	410	9,430	X	X	X	12/17/19
FNB0047810116	DKK810700	23	410	9,430		X	X	12/17/19
FNB0047810117	DKK810700	23	410	9,430		X	X	12/17/19
FNB0047810118	DKK810700	23	410	9,430		X	X	12/17/19
FNB0047810119	DKK810700	23	410	9,430		X	X	12/17/19
FNB0047810120	DKK810700	23	410	9,430		X	X	12/17/19
FNB0047810121	DKK810700	23	410	9,430		X	X	12/17/19
FNB0047810122	DKK810700	23	410	9,430		X	X	12/17/19
FNB0047810123	DKK810700	23	410	9,430		X	X	12/18/19
FNB0047810124	DKK810700	23	410	9,430		X	X	12/18/19
FNB0047810125	DKK810700	23	410	9,430		X	X	12/18/19
FNB0047810126	DKK810700	23	410	9,430		X	X	12/18/19
FNB0047810127	DKK810700	23	410	9,430		X	X	12/18/19
FNB0047810128	DKK810700	23	410	9,430		X	X	12/18/19
FNB0047810129	DKK810700	23	410	9,430		X	X	12/18/19
FNB0047810130	DKK810700	23	410	9,430	X	X	X	12/18/19
FNB0047810131	DKK810700	23	410	9,430		X	X	12/18/19
FNB0047810132	DKK810700	23	410	9,430		X	X	12/18/19
FNB0047810133	DKK810700	23	410	9,430		X	X	12/18/19
FNB0047810134	DKK810700	23	410	9,430		X	X	12/18/19
FNB0047810135	DKK810700	23	410	9,430		X	X	12/18/19
FNB0047810136	DKK810700	23	410	9,430		X	X	12/18/19
FNB0047810137	DKK810700	23	410	9,430		X	X	12/18/19

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2A Part 3 Record of Construction
80-mil LLDPE Geomembrane Site Inventory Control

Roll Number	Resin Lot Number	Width (ft)	Length (ft)	Area (sf)	Conformance Test	Agru QC Certification	Resin Certification	Site Delivery Date
FNB0047810138	DKK810700	23	410	9,430		X	X	12/18/19
FNB0047810139	DKK810700	23	410	9,430		X	X	12/18/19
FNB0047810140	DKK810700	23	410	9,430		X	X	12/18/19
FNB0047810141	DKK810700	23	410	9,430		X	X	12/18/19
FNB0047810142	DKK810700	23	410	9,430		X	X	12/18/19
FNB0047810143	DKK810700	23	410	9,430		X	X	12/18/19
FNB0047810144	DKK810700	23	410	9,430		X	X	12/18/19
FNB0047810145	DKK810700	23	410	9,430	X	X	X	12/18/19
FNB0047810146	DKK810700	23	410	9,430		X	X	12/18/19
FNB0047810147	DKK810700	23	410	9,430		X	X	12/20/19
FNB0047810148	DKK810700	23	410	9,430		X	X	12/20/19
FNB0047810149	DKK810700	23	410	9,430		X	X	12/20/19
FNB0047810150	DKK810700	23	410	9,430		X	X	12/20/19
FNB0047810151	DKK810700	23	410	9,430		X	X	12/20/19
FNB0047810152	DKK810700	23	410	9,430		X	X	12/20/19
FNB0047810153	DKK810700	23	410	9,430		X	X	12/20/19
FNB0047810154	DKK810700	23	410	9,430		X	X	12/20/19
FNB0047810155	DKK810700	23	410	9,430		X	X	12/20/19
FNB0047810156	DKK810700	23	410	9,430		X	X	12/20/19
FNB0047810157	DKK810700	23	410	9,430		X	X	12/20/19
FNB0047810158	DKK810700	23	410	9,430		X	X	12/20/19
FNB0047810159	DKK810700	23	410	9,430		X	X	12/18/19
FNB0047810160	DKK810700	23	410	9,430	X	X	X	12/18/19
FNB0047810161	DKK810700	23	410	9,430		X	X	12/18/19
FNB0047810162	DKK810700	23	410	9,430		X	X	12/18/19
FNB0047810163	DKK810700	23	410	9,430		X	X	12/18/19
FNB0047810164	DKK810700	23	410	9,430		X	X	12/18/19
FNB0047810165	DKK810700	23	410	9,430		X	X	12/18/19
FNB0047810166	DKK810700	23	410	9,430		X	X	12/18/19
FNB0047810167	DKK810700	23	410	9,430		X	X	12/18/19
FNB0047810168	DKK810700	23	410	9,430		X	X	12/18/19
FNB0047810169	DKK810700	23	410	9,430		X	X	12/18/19
FNB0047810170	DKK810700	23	410	9,430		X	X	12/18/19
FNB0047810171	DKK810700	23	410	9,430		X	X	12/20/19
FNB0047810172	DKK810700	23	410	9,430		X	X	12/20/19
FNB0047810173	DKK810700	23	410	9,430		X	X	12/20/19
FNB0047810174	DKK810700	23	410	9,430		X	X	12/20/19
FNB0047810175	DKK810700	23	410	9,430	X	X	X	12/20/19
FNB0047810176	DKK810700	23	410	9,430		X	X	12/20/19
FNB0047810177	DKK810700	23	410	9,430		X	X	12/20/19
FNB0047810178	DKK810700	23	410	9,430		X	X	12/20/19
FNB0047810179	DKK810700	23	410	9,430		X	X	12/20/19
FNB0047810180	DKK810700	23	410	9,430		X	X	12/20/19
FNB0047810181	DKK810700	23	410	9,430		X	X	12/20/19
FNB0047810182	DKK810700	23	410	9,430		X	X	12/20/19
FNB0047810183	DKK810700	23	410	9,430		X	X	12/20/19

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2A Part 3 Record of Construction
80-mil LLDPE Geomembrane Site Inventory Control

Roll Number	Resin Lot Number	Width (ft)	Length (ft)	Area (sf)	Conformance Test	Agru QC Certification	Resin Certification	Site Delivery Date
FNB0047810184	DKK810700	23	410	9,430		X	X	12/20/19
FNB0047810185	DKK810700	23	410	9,430		X	X	12/20/19
FNB0047810186	DKK810700	23	410	9,430		X	X	12/20/19
FNB0047810187	DKK810700	23	410	9,430		X	X	12/20/19
FNB0047810188	DKJ810710	23	410	9,430		X	X	12/20/19
FNB0047810189	DKJ810710	23	410	9,430		X	X	12/20/19
FNB0047810190	DKJ810710	23	410	9,430	X	X	X	12/20/19
FNB0047810191	DKJ810710	23	410	9,430		X	X	12/20/19
FNB0047810192	DKJ810710	23	410	9,430		X	X	12/20/19
FNB0047810193	DKJ810710	23	410	9,430		X	X	12/20/19
FNB0047810194	DKJ810710	23	410	9,430		X	X	12/20/19
FNB0047810195	DKJ810710	23	410	9,430		X	X	12/23/19
FNB0047810197	DKJ810710	23	410	9,430		X	X	12/23/19
FNB0047810198	DKJ810710	23	410	9,430		X	X	12/23/19
FNB0047810199	DKJ810710	23	410	9,430		X	X	12/23/19
FNB0047810200	DKJ810710	23	410	9,430		X	X	12/23/19
FNB0047810201	DKJ810710	23	410	9,430		X	X	12/23/19
FNB0047810202	DKJ810710	23	410	9,430		X	X	12/23/19
FNB0047810203	DKJ810710	23	410	9,430		X	X	12/23/19
FNB0048240001	DKJ810710	23	410	9,430		X	X	12/23/19
FNB0048240002	DKJ810710	23	410	9,430		X	X	12/23/19
FNB0048240003	DKJ810710	23	410	9,430		X	X	12/23/19
FNB0048240004	DKJ810710	23	410	9,430		X	X	12/23/19
FND0047820005	DKK810710	23	410	9,430	X	X	X	12/21/19
FND0047820008	DKK810710	23	410	9,430		X	X	12/21/19
FND0047820009	DKK810710	23	410	9,430		X	X	12/21/19
FND0047820010	DKK810710	23	410	9,430		X	X	12/21/19
FND0047820011	DKK810710	23	410	9,430		X	X	12/21/19
FND0047820012	DKK810710	23	410	9,430		X	X	12/21/19
FND0047820013	DKK810710	23	410	9,430		X	X	12/21/19
FND0047820014	DKK810710	23	410	9,430		X	X	12/21/19
FND0047820015	DKK810710	23	410	9,430		X	X	12/21/19
FND0047820016	DKK810710	23	410	9,430		X	X	12/21/19
FND0047820017	DKK810710	23	410	9,430		X	X	12/21/19
FND0047820018	DKK810710	23	410	9,430		X	X	12/21/19
FND0047820019	DKK810710	23	410	9,430		X	X	12/20/19
FND0047820020	DKK810710	23	410	9,430		X	X	12/20/19
FND0047820021	DKK810710	23	410	9,430		X	X	12/20/19
FND0047820022	DKK810710	23	410	9,430	X	X	X	12/20/19
FND0047820023	DKK810710	23	410	9,430		X	X	12/20/19
FND0047820024	DKK810710	23	410	9,430		X	X	12/20/19
FND0047820025	DKK810710	23	410	9,430		X	X	12/20/19
FND0047820026	DKK810710	23	410	9,430		X	X	12/20/19
FND0047820027	DKK810710	23	410	9,430		X	X	12/20/19
FND0047820028	DKK810710	23	410	9,430		X	X	12/20/19
FND0047820029	DKK810710	23	410	9,430		X	X	12/20/19

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2A Part 3 Record of Construction
80-mil LLDPE Geomembrane Site Inventory Control

Roll Number	Resin Lot Number	Width (ft)	Length (ft)	Area (sf)	Conformance Test	Agru QC Certification	Resin Certification	Site Delivery Date
FND0047820030	DKK810710	23	410	9,430		X	X	12/20/19
FND0047820031	DKK810710	23	410	9,430		X	X	12/23/19
FND0047820032	DKK810710	23	410	9,430		X	X	12/23/19
FND0047820033	DKK810710	23	410	9,430		X	X	12/23/19
FND0047820034	DKK810710	23	410	9,430		X	X	12/23/19
FND0047820035	DKK810710	23	410	9,430		X	X	12/23/19
FND0047820036	DKK810710	23	410	9,430		X	X	12/23/19
FND0047820037	DKK810710	23	410	9,430	X	X	X	12/23/19
FND0047820038	DKK810710	23	410	9,430		X	X	12/23/19
FND0047820039	DKK810710	23	410	9,430		X	X	12/23/19
FND0047820040	DKK810710	23	410	9,430		X	X	12/23/19
FND0047820041	DKK810710	23	410	9,430		X	X	12/23/19
FND0047820042	DKK810710	23	410	9,430		X	X	12/23/19
FND0047820043	DKK810710	23	410	9,430		X	X	12/21/19
FND0047820044	DKK810710	23	410	9,430		X	X	12/21/19
FND0047820045	DKK810710	23	410	9,430		X	X	12/21/19
FND0047820046	DKK810710	23	410	9,430		X	X	12/21/19
FND0047820047	DKK810710	23	410	9,430		X	X	12/21/19
FND0047820048	DKK810710	23	410	9,430		X	X	12/21/19
FND0047820049	DKK810710	23	410	9,430		X	X	12/21/19
FND0047820050	DKK810710	23	410	9,430		X	X	12/21/19
FND0047820051	DKK810710	23	410	9,430		X	X	12/21/19
FND0047820052	DKK810710	23	410	9,430	X	X	X	12/21/19
FND0047820053	DKK810710	23	410	9,430		X	X	12/21/19
FND0047820054	DKK810710	23	410	9,430		X	X	12/21/19
FND0047820055	DKK810710	23	410	9,430		X	X	12/21/19
FND0047820056	DKK810710	23	410	9,430		X	X	12/21/19
FND0047820057	DKK810710	23	410	9,430		X	X	12/21/19
FND0047820058	DKJ810710	23	410	9,430		X	X	12/21/19
FND0047820059	DKJ810710	23	410	9,430		X	X	12/21/19
FND0047820060	DKJ810710	23	410	9,430		X	X	12/21/19
FND0047820061	DKJ810710	23	410	9,430		X	X	12/21/19
FND0047820062	DKJ810710	23	410	9,430		X	X	12/21/19
FND0047820063	DKJ810710	23	410	9,430		X	X	12/21/19
FND0047820064	DKJ810710	23	410	9,430		X	X	12/21/19
FND0047820065	DKJ810710	23	410	9,430		X	X	12/21/19
FND0047820066	DKJ810710	23	410	9,430		X	X	12/21/19
FND0047820067	DKJ810710	23	410	9,430	X	X	X	12/30/19
FND0047820068	DKJ810710	23	410	9,430		X	X	12/30/19
FND0047820069	DKJ810710	23	410	9,430		X	X	12/30/19
FND0047820070	DKJ810710	23	410	9,430		X	X	12/31/19
FND0047820071	DKJ810710	23	410	9,430		X	X	12/31/19
FND0047820072	DKJ810710	23	410	9,430		X	X	12/31/19
FND0047820073	DKJ810710	23	410	9,430		X	X	12/31/19
FND0047820074	DKJ810710	23	410	9,430		X	X	12/23/19
FND0047820075	DKJ810710	23	410	9,430		X	X	12/23/19

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2A Part 3 Record of Construction
80-mil LLDPE Geomembrane Site Inventory Control

Roll Number	Resin Lot Number	Width (ft)	Length (ft)	Area (sf)	Conformance Test	Agru QC Certification	Resin Certification	Site Delivery Date
FND0047820076	DKJ810710	23	410	9,430		X	X	12/23/19
FNB0048240005	DKJ810710	23	410	9,430		X	X	12/21/19
FNB0048240006	DKJ810710	23	410	9,430		X	X	12/21/19
FNB0048240007	DKJ810710	23	410	9,430		X	X	12/21/19
FNB0048240008	DKJ810710	23	410	9,430		X	X	12/21/19
FNB0048240009	DKJ810710	23	410	9,430		X	X	12/21/19
FNB0048240010	DKJ810710	23	410	9,430		X	X	12/21/19
FNB0048240011	DKJ810710	23	410	9,430		X	X	12/21/19
FNB0048240012	DKJ810710	23	410	9,430		X	X	12/21/19
FNB0048240013	DKJ810710	23	410	9,430		X	X	12/21/19
FNB0048240014	DKJ810710	23	410	9,430		X	X	12/21/19
FNB0048240015	DKJ810710	23	410	9,430		X	X	12/21/19
FNB0048240016	DKJ810710	23	410	9,430		X	X	12/21/19
FNB0048240017	DKJ810710	23	410	9,430		X	X	12/31/19
FNB0048240019	DKJ810710	23	410	9,430		X	X	12/31/19
FND0047820077	DKJ810710	23	410	9,430		X	X	12/23/19
FND0047820078	DKJ810710	23	410	9,430		X	X	12/23/19
FND0047820079	DKJ810710	23	410	9,430		X	X	12/23/19
FND0047820080	DKJ810710	23	410	9,430		X	X	12/23/19
FND0047820081	DKJ810710	23	410	9,430		X	X	12/23/19
FND0047820082	DKJ810710	23	410	9,430	X	X	X	12/23/19
FND0047820083	DKJ810710	23	410	9,430		X	X	12/23/19
FND0047820084	DKJ810710	23	410	9,430		X	X	12/23/19
FND0047820085	DKJ810710	23	410	9,430		X	X	12/23/19
FNB0048240019	DKJ810710	23	410	9,430		X	X	12/31/19
FNB0048240020	DKJ810710	23	410	9,430		X	X	12/31/19
FNB0048240021	DKJ810710	23	410	9,430		X	X	12/31/19
FNB0048240022	DKJ810710	23	410	9,430		X	X	12/31/19
FNB0048240023	DKJ810710	23	410	9,430		X	X	12/31/19
FNB0048240024	DKJ810710	23	410	9,430		X	X	12/31/19
FNB0048240025	DKJ810710	23	410	9,430		X	X	12/27/19
FNB0048240026	DKJ810710	23	410	9,430		X	X	12/27/19
FNB0048240027	DKJ810710	23	410	9,430		X	X	12/27/19
FNB0048240028	DKJ810710	23	410	9,430		X	X	12/27/19
FNB0048240029	DKJ810710	23	410	9,430		X	X	12/27/19
FNB0048240030	DKJ810710	23	410	9,430		X	X	12/27/19
FNB0048240031	DKJ810710	23	410	9,430		X	X	12/27/19
FNB0048240032	DKJ810710	23	410	9,430		X	X	12/27/19
FNB0048240033	DKJ810710	23	410	9,430		X	X	12/27/19
FNB0048240034	DKJ810710	23	410	9,430		X	X	12/27/19
FNB0048240035	DKJ810710	23	410	9,430		X	X	12/27/19
FNB0048240036	DKJ810710	23	410	9,430		X	X	12/27/19
Total Rolls	315	*Total Area (sf)*		2,970,450				

APPENDIX I.2 – RESUMES OF INSTALLATION PERSONNEL

TETRA TECH

Resume of Qualifications

Trevor Simmons

Professional Qualifications

Trevor Simmons possesses over twenty seven years of experience in the geosynthetic industry. He has supervised and installed over 150,000,000 square feet of numerous types of geosynthetic material from all major manufacturers. He has performed and supervised projects ranging up to 7,000,000 square feet. He has experience installing and supervising the installation of HDPE, LLDPE, XR5, Geocomposite Clay, Geocomposite, Geotextiles, Polypropylene and PVC liners.

Mr. Simmons' experience includes international work in Canada, England, the Bahamas, the United Arab Emirates and Laos. Current duties include coordination of 15 Field Superintendents and as many as 200 foremen, Quality Control Technicians, Operators, Laborers and Welding Technicians through the construction season.

Mr. Simmons joined American Environmental Group Ltd. in April of 2005.

Experience and Employment Background

2015 – Present: American Environmental Group, Ltd., Richfield, Ohio
Operations Manager

2005 – 2015 American Environmental Group, Ltd., Richfield, Ohio
General Superintendent
As a General Superintendent, Mr. Simmons oversaw the completion of both ordinary and extraordinary geosynthetics installation. The ordinary include normal wastewater ponds and landfill cells, while the extraordinary included many emergency landfill projects where quality and safety were critical. Such emergency projects required a high level of competence and communication with multiple trades to meet customer and legal requirements. Crew sizes ranged from 10 to 40

2004 – 2005: Geo-Synthetics Inc., Waukesha, WI.
Project Manager
As a Project Manager, Mr. Simmons was responsible for all aspects of construction on installation projects throughout the United States. Mr. Simmons managed between 2 and 8 geosynthetic crews on a continual basis. His duties included P&L management, materials management, crew scheduling, daily coordination with clients, invoicing of contract and extra work items. Mr. Simmons was responsible for overall client satisfaction. His duties also included interviewing, screening, and selecting candidates for
Employment.

2002 – 2003: COMANCO Environmental Corporation, Baton Rouge, LA
Project Manager
As a Project Manager, Mr. Simmons was responsible for all aspects of construction on installation projects in his Southeast Region. Mr. Simmons managed between 2 and 6 geosynthetic crews on a continual basis. His duties included P&L management, materials management, crew scheduling, daily coordination with clients, invoicing of contract and extra work items. Mr. Simmons was responsible for overall client satisfaction.

Tetra Tech AEG
3600 Brecksville Road, Suite 100, Richfield, Ohio 44286
Tel +1.330.659.5930 Fax +1.330659-5931 tetratech.com

Resume of Qualifications

Trevor Simmons

1992 – 2002: Serrot International, Inc. / National Seal Company, Baton Rouge, LA
Superintendent to Project Manager
Responsible for the supervision of field geosynthetics installation crews of 10 to 45 technicians and laborers. Mr. Simmons successfully completed installations in the U.S., Canada, England, The Bahamas and The United Arab Emirates. Coordinated project duties with other on-site contractors to meet required guidelines and goals.

1990 – 1992: Geosyntec Consultants, Consulting Engineers, Boca Raton, FL
Sr. Engineering Technician
Mr. Simmons was responsible for the documentation of all relevant aspects of landfill construction. He reviewed material certifications to ensure compliance with project specifications. He coordinated daily with the owner, earthwork contractor, and installation contractor. He facilitated problem / resolution meetings as necessary. Mr. Simmons performed on-site testing of materials. He prepared documentation for inclusion into final reports for submittal to state regulatory agencies for approval.

1989 – 1990: National Seal Company, Galesburg, IL
Senior Technician
Installation of various liner systems including: HDPE, LLDPE, Polypropylene, VLDPE, and PVC. Capable of operating all types of geosynthetic welding equipment.

Academic / Training Background

- OSHA 40 Hour Training Course – CFR 1910.120
- OSHA 8 Hour Refresher Training – CFR 1910.120
- OSHA 8 Hour Supervisor's and Competent Person Training – CFR 1910.120
- MSHA 24 Hour New Miner
- MSHA 8 Hour Refresher
- OSHA 10 Hour Construction Outreach
- OSHA 30 Hour Construction Outreach
- First Aid / CPR
- Wheel Loaders – various sizes
- Bobcat loaders - various sizes
- Backhoe/loader combination - various sizes
- Forklifts - rubber tired - various sizes
- Aerial Lifts – various sizes
- Excavators – various sizes
- Bulldozers – various sizes
- IAGI - Certified Welding Technician
- Instructor – Powered Industrial Truck

Tetra Tech AEG
3600 Brecksville Road, Suite 100, Richfield, Ohio 44286
Tel +1.330.659.5930 Fax +1.330659-5931 tetratech.com

Antonio Alejo – Technician II		
Company History	**Years Experience**	**Materials**
American Environmental Group, LTD.	2010 - Present	Geomembrane HDPE, LLDPE, XR-5, PVC, Geosynthetic Clay Liner (GCL), Geonet, Geocomposite, Geotextiles
GSE	1995– 2010	Geomembrane HDPE, LLDPE, XR-5, PVC, Geosynthetic Clay Liner (GCL), Geonet, Geocomposite, Geotextiles

A Geosynthetic Technician II has a minimum of 2 million square feet of geosynthetic material installation experience.

American Environmental Group Ltd.

Jose Alejo – Technician III		
Company History	**Years Experience**	**Materials**
American Environmental Group, LTD.	2010 - Present	Geomembrane HDPE, LLDPE, XR-5, PVC, Geosynthetic Clay Liner (GCL), Geonet, Geocomposite, Geotextiles
GSE	1995– 2010	Geomembrane HDPE, LLDPE, XR-5, PVC, Geosynthetic Clay Liner (GCL), Geonet, Geocomposite, Geotextiles

A Geosynthetic Technician III has a minimum of 10 million square feet of geosynthetic material installation experience.

Jesus Carrillo – QC Technician		
Company History	**Years Experience**	**Materials**
American Environmental Group, LTD.	2015 – Present	Geomembrane HDPE, LLDPE, XR-5, PVC, Geosynthetic Clay Liner (GCL), Geonet, Geocomposite, Geotextiles
GSE	1996-2005	Geomembrane HDPE, LLDPE, XR-5, PVC, Geosynthetic Clay Liner (GCL), Geonet, Geocomposite, Geotextiles

A Geosynthetic QC Technician has a minimum of 5 million square feet of geosynthetic material installation experience.

American Environmental Group Ltd.

Alvino Gonzalez- Technician		
Company History	**Years Experience**	**Materials**
American Environmental Group, LTD.	2010 – Present	Geomembrane HDPE, LLDPE, XR-5, PVC, Geosynthetic Clay Liner (GCL), Geonet, Geocomposite, Geotextiles
GSE Lining Technology, Inc.	2010 – 2010	Geomembrane HDPE, LLDPE, XR-5, PVC, Geosynthetic Clay Liner (GCL), Geonet, Geocomposite, Geotextiles

A Geosynthetic Technician has a minimum of 1 million square feet of geosynthetic material installation experience.

Walter Lira-Guzman – Technician		
Company History	**Years Experience**	**Materials**
American Environmental Group, LTD.	2012 - Present	Geomembrane HDPE, LLDPE, XR-5, PVC, Geosynthetic Clay Liner (GCL), Geonet, Geocomposite, Geotextiles

A Geosynthetic Technician has a minimum of 1 million square feet of geosynthetic material installation experience.

American Environmental Group Ltd.

Jorge Louis Olvera – Master Seamer/Foreman		
Company History	**Years Experience**	**Materials**
American Environmental Group, LTD.	2011 - Present	Geomembrane HDPE, LLDPE, XR-5, PVC, Geosynthetic Clay Liner (GCL), Geonet, Geocomposite, Geotextiles
ESI	2010– 2011	Geomembrane HDPE, LLDPE, XR-5, PVC, Geosynthetic Clay Liner (GCL), Geonet, Geocomposite, Geotextiles
GSE	2007– 2008	Geomembrane HDPE, LLDPE, XR-5, PVC, Geosynthetic Clay Liner (GCL), Geonet, Geocomposite, Geotextiles

A Geosynthetic Master Seamer / Foreman has a minimum of 30 million square feet of geosynthetic material installation experience.

American Environmental Group Ltd.

Noy Pok - Technician		
Company History	**Years Experience**	**Materials**
American Environmental Group, LTD.	5/2020 – Present	Geomembrane HDPE, LLDPE, XR-5, PVC, Geosynthetic Clay Liner (GCL), Geonet, Geocomposite, Geotextiles
Atlantic Lining Co	2019 - 2020	Geomembrane HDPE, LLDPE, XR-5, PVC, Geosynthetic Clay Liner (GCL), Geonet, Geocomposite, Geotextiles

A Geosynthetic Technician has a minimum of 1 million square feet of geosynthetic material installation experience.

American Environmental Group Ltd.

Yaquelin Ricardo-Hernandez – QC Technician		
Company History	**Years Experience**	**Materials**
American Environmental Group, LTD.	2015-Present	Geomembrane HDPE, LLDPE, Geosynthetic Clay Liner (GCL), Geonet, Geocomposite, Geotextiles
GSE	2005-2012	Geomembrane HDPE, LLDPE, Geosynthetic Clay Liner (GCL), Geonet, Geocomposite, Geotextiles

A Geosynthetic QC Technician has a minimum of 5 million square feet of geosynthetic material installation experience.

American Environmental Group Ltd.

Peter Seekins - Technician		
Company History	**Years Experience**	**Materials**
American Environmental Group, LTD.	2015-Present	Geomembrane HDPE, LLDPE, Geosynthetic Clay Liner (GCL), Geonet, Geocomposite, Geotextiles

A Geosynthetic Technician has a minimum of 1 million square feet of geosynthetic material installation experience.

American Environmental Group Ltd.

Sinhxay Sundara - Master Seamer		
Company History	**Years Experience**	**Materials**
American Environmental Group, LTD.	2005 - Present	Geomembrane HDPE, LLDPE, XR-5, PVC, Geosynthetic Clay Liner (GCL), Geonet, Geocomposite, Geotextiles
American Environmental Group, LTD.	April 23, 2009 - 2014	**IAGI CWT 032009** Certified Welding Technician
Geo-Synthetic, Inc.	2000 – 2005	Geomembrane HDPE, LLDPE, XR-5, PVC, Geosynthetic Clay Liner (GCL), Geonet, Geocomposite, Geotextiles
GSE	1995 – 2000	Geomembrane HDPE, VLDPE, LLDPE, XR-5, PVC, Geosynthetic Clay Liner (GCL), Geonet, Geocomposite, Geotextiles

Master Seamers have an IAGI Certified Welding Technician certificate that entitles them having a minimum of 30 million square feet of geosynthetic material installation experience

American Environmental Group Ltd.

Curry Trahan – Technician		
Company History	**Years Experience**	**Materials**
American Environmental Group, LTD.	2019-Present	Geomembrane HDPE, LLDPE, XR-5, PVC, Geosynthetic Clay Liner (GCL), Geonet, Geocomposite, Geotextiles

A Geosynthetic Technician has a minimum of 1 million square feet of geosynthetic material installation experience.

American Environmental Group Ltd.

Shawn Bowers – Technician in Training		
Company History	**Years Experience**	**Materials**
American Environmental Group, LTD.	2020-Present	Geomembrane HDPE, LLDPE, XR-5, PVC, Geosynthetic Clay Liner (GCL), Geonet, Geocomposite, Geotextiles

A Geosynthetic Technician in training is working on having a minimum of 1 million square feet of geosynthetic material installation experience.

American Environmental Group Ltd.

Julian Pettingell – Technician III		
Company History	**Years Experience**	**Materials**
American Environmental Group, LTD.	2020 - Present	Geomembrane HDPE, LLDPE, XR-5, PVC, Geosynthetic Clay Liner (GCL), Geonet, Geocomposite, Geotextiles
IEC	2019	Geomembrane HDPE, LLDPE, XR-5, PVC, Geosynthetic Clay Liner (GCL), Geonet, Geocomposite, Geotextiles
Mustang	2017 - 2018	Geomembrane HDPE, LLDPE, XR-5, PVC, Geosynthetic Clay Liner (GCL), Geonet, Geocomposite, Geotextiles
ESI	2014 - 2017	Geomembrane HDPE, LLDPE, XR-5, PVC, Geosynthetic Clay Liner (GCL), Geonet, Geocomposite, Geotextiles

A Geosynthetic Technician has a minimum of 10 million square feet of geosynthetic material installation experience.

Javier Ortega – Technician in Training		
Company History	**Years Experience**	**Materials**
American Environmental Group, LTD.	2020-Present	Geomembrane HDPE, LLDPE, XR-5, PVC, Geosynthetic Clay Liner (GCL), Geonet, Geocomposite, Geotextiles

A Geosynthetic Technician in training is working on having a minimum of 1 million square feet of geosynthetic material installation experience.

American Environmental Group Ltd.

Raziel Rodriguez – Technician in Training		
Company History	**Years Experience**	**Materials**
American Environmental Group, LTD.	2020-Present	Geomembrane HDPE, LLDPE, XR-5, PVC, Geosynthetic Clay Liner (GCL), Geonet, Geocomposite, Geotextiles

A Geosynthetic Technician in training is working on having a minimum of 1 million square feet of geosynthetic material installation experience.

American Environmental Group Ltd.

Trey Shields - Technician		
Company History	**Years' Experience**	**Materials**
American Environmental Group, LTD.	2019 - Present	Geomembrane HDPE, LLDPE, XR-5 PVC, Geosynthetic Clay Liner (GCL), Geonet, Geocomposite, Geotextiles
Atlantic Lining	2018 - 2019	Geomembrane HDPE, LLDPE, XR-5 PVC, Geosynthetic Clay Liner (GCL), Geonet, Geocomposite, Geotextiles

A Geosynthetic Technician has a minimum of 1 million square feet of geosynthetic material installation experience.

American Environmental Group Ltd.

Phaivanh Thonesavanh – Technician in Training		
Company History	**Years Experience**	**Materials**
American Environmental Group, LTD.	2020-Present	Geomembrane HDPE, LLDPE, XR-5, PVC, Geosynthetic Clay Liner (GCL), Geonet, Geocomposite, Geotextiles

A Geosynthetic Technician in training is working on having a minimum of 1 million square feet of geosynthetic material installation experience.

American Environmental Group Ltd.

Duong Tran – Technician in Training		
Company History	**Years Experience**	**Materials**
American Environmental Group, LTD.	2020-Present	Geomembrane HDPE, LLDPE, XR-5, PVC, Geosynthetic Clay Liner (GCL), Geonet, Geocomposite, Geotextiles

A Geosynthetic Technician in training is working on having a minimum of 1 million square feet of geosynthetic material installation experience.

American Environmental Group Ltd.

Glenn Beeman, Jr – Technician in Training		
Company History	**Years Experience**	**Materials**
American Environmental Group, LTD.	2019-Present	Geomembrane HDPE, LLDPE, XR-5, PVC, Geosynthetic Clay Liner (GCL), Geonet, Geocomposite, Geotextiles

A Geosynthetic Technician in training is working on having a minimum of 1 million square feet of geosynthetic material installation experience.

American Environmental Group Ltd.

APPENDIX I.3 – 80 MIL LLDPE GEOMEMBRANE ROLL QC CERTIFICATES

agru america
quality control dept.

Maria Coffey-Manager
Quality Control Department

Newmont Mining
Cripple Creek & Victor Gold Mining Co
1632 County Road 82
Cripple Creek, CO 80813

SO#: **00005731**
Liner Type: **80LL micro**
Item: **FG-LDMSDS080BBBEG**
Current # of Rolls: **315**
Roll Count: **1-315 (all)**
Report Date: 10/13/2020 **ENGLISH**

Count	Roll #	(English)			Thickness (English)			Asperity (Top)	Asperity (Bottom)	Lot #	OIT (Standard)	Specific Gravity	Melt Flow Index	Carbon Black Content	Carbon Black Disp.	Tensile Str. @Break (MD)		Tensile Str. @Break (TD)		Elong. @Break (MD)	Elong. @Break (TD)	Tear Resistance (MD)	Tear Resistance (TD)	Puncture Resistance	Production Date
		Width	Length	Area	Min.	Max.	Ave.																		
		ft.	ft.	ft².	mils	mils	mils	mils	mils		min	g/cc	g/10 min.	%	(# in Cat. 1)	ppi	psi	ppi	psi	%	%	lbs.	lbs.	lbs.	
Minimum Results (ea. Col.)					70	78	76	23	27		147	0.931	0.34	2.1	10	226.3	2939	249.3	3263	480	601	60	56	146	
1	FNB0047810003	23	410.0	9,430	73	84	78	26	34	DKJ810770	214	0.933	0.34	2.5	10	235	3013	254.5	3263	519	637	60	56	149	12/6/2019
2	FNB0047810004	23	410.0	9,430	73	83	78	27	36	DKJ810770	214	0.933	0.34	2.5	10	235	3013	254.5	3263	519	637	60	56	149	12/6/2019
3	FNB0047810005	23	410.0	9,430	73	81	77	26	33	DKJ810770	214	0.933	0.34	2.5	10	232	3013	251.3	3263	519	637	60	56	149	12/6/2019
4	FNB0047810006	23	410.0	9,430	74	82	78	27	35	DKJ810770	214	0.933	0.34	2.5	10	235	3013	254.5	3263	519	637	60	56	149	12/6/2019
5	FNB0047810007	23	410.0	9,430	71	81	76	26	33	DKJ810770	214	0.931	0.34	2.3	10	234.5	3086	249.3	3280	510	619	63	59	154	12/6/2019
6	FNB0047810008	23	410.0	9,430	75	80	78	29	34	DKJ810770	214	0.931	0.34	2.3	10	240.7	3086	255.8	3280	510	619	63	59	154	12/6/2019
7	FNB0047810009	23	410.0	9,430	73	81	77	27	33	DKJ810770	214	0.931	0.34	2.3	10	237.6	3086	252.6	3280	510	619	63	59	154	12/6/2019
8	FNB0047810010	23	410.0	9,430	73	80	77	27	33	DKJ810770	214	0.931	0.34	2.4	10	237.6	3086	252.6	3280	510	619	63	59	154	12/6/2019
9	FNB0047810011	23	410.0	9,430	73	79	76	27	33	DKJ810770	214	0.931	0.34	2.4	10	234.5	3086	249.3	3280	510	619	63	59	154	12/6/2019
10	FNB0047810012	23	410.0	9,430	74	80	76	27	31	DKJ810770	214	0.933	0.34	2.5	10	253.9	3341	268.3	3530	520	623	68	69	153	12/6/2019
11	FNB0047810013	23	410.0	9,430	73	79	77	29	33	DKJ810770	214	0.933	0.34	2.5	10	257.3	3341	271.8	3530	520	623	68	69	153	12/7/2019
12	FNB0047810014	23	410.0	9,430	73	78	76	27	32	DKJ810770	214	0.933	0.34	2.5	10	253.9	3341	268.3	3530	520	623	68	69	153	12/7/2019
13	FNB0047810015	23	410.0	9,430	73	79	76	28	33	DKJ810770	214	0.933	0.34	2.4	10	253.9	3341	268.3	3530	520	623	68	69	153	12/7/2019
14	FNB0047810016	23	410.0	9,430	73	81	77	27	33	DKJ810770	214	0.933	0.34	2.4	10	257.3	3341	271.8	3530	520	623	68	69	153	12/7/2019
15	FNB0047810017	23	410.0	9,430	70	82	77	27	34	DKJ810770	214	0.933	0.34	2.3	10	253.5	3292	283.5	3682	516	649	74	74	155	12/7/2019
16	FNB0047810018	23	410.0	9,430	72	81	78	28	35	DKJ810770	214	0.933	0.34	2.3	10	256.8	3292	287.2	3682	516	649	74	74	155	12/7/2019
17	FNB0047810019	23	410.0	9,430	74	81	78	26	39	DKJ810770	214	0.933	0.34	2.3	10	256.8	3292	287.2	3682	516	649	74	74	155	12/7/2019
18	FNB0047810020	23	410.0	9,430	71	82	78	28	35	DKJ810770	214	0.933	0.34	2.3	10	256.8	3292	287.2	3682	516	649	74	74	155	12/7/2019
19	FNB0047810021	23	410.0	9,430	71	82	78	27	41	DKJ810770	214	0.933	0.34	2.3	10	256.8	3292	287.2	3682	516	649	74	74	155	12/7/2019
20	FNB0047810022	23	410.0	9,430	73	82	78	28	37	DKJ810770	214	0.933	0.34	2.4	10	243	3115	264.9	3396	525	637	62	59	152	12/7/2019
21	FNB0047810023	23	410.0	9,430	72	83	79	25	36	DKJ810770	214	0.933	0.34	2.4	10	246.1	3115	268.3	3396	525	637	62	59	152	12/7/2019
22	FNB0047810024	23	410.0	9,430	76	82	79	27	37	DKJ810770	214	0.933	0.34	2.4	10	246.1	3115	268.3	3396	525	637	62	59	152	12/7/2019
23	FNB0047810025	23	410.0	9,430	73	83	78	27	40	DKJ810770	214	0.933	0.34	2.4	10	243	3115	264.9	3396	525	637	62	59	152	12/7/2019
24	FNB0047810026	23	410.0	9,430	71	82	78	26	38	DKJ810770	214	0.933	0.34	2.4	10	243	3115	264.9	3396	525	637	62	59	152	12/7/2019

agru america
quality control dept.

Maria Coffey-Manager
Quality Control Department

Newmont Mining
Cripple Creek & Victor Gold Mining Co
1632 County Road 82
Cripple Creek, CO 80813

SO#: **00005731**
Liner Type: **80LL micro**
Item: **FG-LDMSDS080BBBEG**
Current # of Rolls: **315**
Roll Count: **1-315 (all)**
Report Date: 10/13/2020 **ENGLISH**

					ASTM D5994 (Modified)			ASTM D7466			ASTM D3895	ASTM D792	ASTM D1238	ASTM D4218	ASTM D5596	ASTM D6693						ASTM D1004		ASTM D4833	
Count	Roll #	(English)			Thickness (English)			Asperity (Top)	Asperity (Bottom)	Lot #	OIT (Standard)	Specific Gravity	Melt Flow Index	Carbon Black Content	Carbon Black Disp.	Tensile Str. @Break (MD)		Tensile Str. @Break (TD)		Elong. @Break (MD)	Elong. @Break (TD)	Tear Resistance (MD)	Tear Resistance (TD)	Puncture Resistance	Production Date
		Width	Length	Area	Min.	Max.	Ave.																		
		ft.	ft.	ft².	mils	mils	mils	mils	mils		min	g/cc	g/10 min.	%	(# in Cat. 1)	ppi	psi	ppi	psi	%	%	lbs.	lbs.	lbs.	
	Minimum Results (ea. Col.)				70	78	76	23	27		147	0.931	0.34	2.1	10	226.3	2939	249.3	3263	480	601	60	56	146	
25	FNB0047810027	23	410.0	9,430	73	84	78	27	38	DKJ810770	214	0.931	0.34	2.3	10	235.9	3024	269.8	3459	530	640	68	68	147	12/7/2019
26	FNB0047810028	23	410.0	9,430	73	81	76	27	31	DKJ810770	214	0.931	0.34	2.3	10	229.8	3024	262.9	3459	530	640	68	68	147	12/7/2019
27	FNB0047810029	23	410.0	9,430	71	81	77	26	33	DKJ810770	214	0.931	0.34	2.3	10	232.8	3024	266.3	3459	530	640	68	68	147	12/7/2019
28	FNB0047810030	23	410.0	9,430	75	81	78	27	34	DKJ810770	214	0.931	0.34	2.2	10	235.9	3024	269.8	3459	530	640	68	68	147	12/7/2019
29	FNB0047810031	23	410.0	9,430	75	79	77	27	33	DKJ810770	214	0.931	0.34	2.2	10	232.8	3024	266.3	3459	530	640	68	68	147	12/7/2019
30	FNB0047810032	23	410.0	9,430	75	82	79	26	34	DKJ810770	214	0.934	0.34	2.4	10	267.7	3388	286.9	3632	480	638	73	70	159	12/8/2019
31	FNB0047810033	23	410.0	9,430	76	80	78	29	34	DKJ810770	214	0.934	0.34	2.4	10	264.3	3388	283.3	3632	480	638	73	70	159	12/8/2019
32	FNB0047810034	23	410.0	9,430	76	80	78	27	33	DKJ810770	214	0.934	0.34	2.4	10	264.3	3388	283.3	3632	480	638	73	70	159	12/8/2019
33	FNB0047810035	23	410.0	9,430	76	82	79	27	33	DKJ810770	214	0.934	0.34	2.4	10	267.7	3388	286.9	3632	480	638	73	70	159	12/8/2019
34	FNB0047810036	23	410.0	9,430	75	82	79	28	33	DKJ810770	214	0.934	0.34	2.4	10	267.7	3388	286.9	3632	480	638	73	70	159	12/8/2019
35	FNB0047810037	23	410.0	9,430	76	82	79	26	37	DKJ810770	214	0.932	0.34	2.4	10	232.2	2939	270.5	3424	521	632	63	61	149	12/8/2019
36	FNB0047810038	23	410.0	9,430	78	82	80	26	39	DKJ810770	214	0.932	0.34	2.4	10	235.1	2939	273.9	3424	521	632	63	61	149	12/8/2019
37	FNB0047810039	23	410.0	9,430	76	81	79	27	38	DKJ810770	214	0.932	0.34	2.4	10	232.2	2939	270.5	3424	521	632	63	61	149	12/8/2019
38	FNB0047810040	23	410.0	9,430	74	79	77	26	34	DKJ810770	214	0.932	0.34	2.5	10	226.3	2939	263.6	3424	521	632	63	61	149	12/8/2019
39	FNB0047810041	23	410.0	9,430	75	81	78	26	38	DKJ810770	214	0.932	0.34	2.5	10	229.2	2939	267.1	3424	521	632	63	61	149	12/8/2019
40	FNB0047810042	23	410.0	9,430	74	82	79	27	36	DKJ810770	214	0.934	0.34	2.3	10	261.8	3314	286.7	3629	520	623	65	66	155	12/8/2019
41	FNB0047810043	23	410.0	9,430	74	82	78	26	36	DKJ810770	214	0.934	0.34	2.3	10	258.5	3314	283.1	3629	520	623	65	66	155	12/8/2019
42	FNB0047810044	23	410.0	9,430	72	83	78	27	37	DKJ810770	214	0.934	0.34	2.3	10	258.5	3314	283.1	3629	520	623	65	66	155	12/8/2019
43	FNB0047810045	23	410.0	9,430	72	81	77	25	35	DKJ810770	214	0.934	0.34	2.5	10	255.2	3314	279.4	3629	520	623	65	66	155	12/8/2019
44	FNB0047810046	23	410.0	9,430	75	80	77	28	34	DKJ810770	214	0.934	0.34	2.5	10	255.2	3314	279.4	3629	520	623	65	66	155	12/8/2019
45	FNB0047810047	23	410.0	9,430	75	80	77	29	35	DKJ810770	214	0.933	0.34	2.4	10	260.8	3387	282.2	3665	520	638	73	74	157	12/8/2019
46	FNB0047810048	23	410.0	9,430	75	81	77	28	33	DKJ810770	214	0.933	0.34	2.4	10	260.8	3387	282.2	3665	520	638	73	74	157	12/8/2019
47	FNB0047810049	23	410.0	9,430	75	80	77	29	34	DKJ810770	214	0.933	0.34	2.4	10	260.8	3387	282.2	3665	520	638	73	74	157	12/8/2019
48	FNB0047810050	23	410.0	9,430	76	81	77	29	33	DKJ810770	214	0.933	0.34	2.7	10	260.8	3387	282.2	3665	520	638	73	74	157	12/9/2019

agru america
quality control dept.

Maria Coffey-Manager
Quality Control Department

Newmont Mining
Cripple Creek & Victor Gold Mining Co
1632 County Road 82
Cripple Creek, CO 80813

SO#: **00005731**
Liner Type: **80LL micro**
Item: **FG-LDMSDS080BBBEG**
Current # of Rolls: **315**
Roll Count: **1-315 (all)**
Report Date: 10/13/2020 **ENGLISH**

Count	Roll #	(English)			Thickness (English)			Asperity (Top)	Asperity (Bottom)	Lot #	OIT (Standard)	Specific Gravity	Melt Flow Index	Carbon Black Content	Carbon Black Disp.	Tensile Str. @Break (MD)		Tensile Str. @Break (TD)		Elong. @Break (MD)	Elong. @Break (TD)	Tear Resistance (MD)	Tear Resistance (TD)	Puncture Resistance	Production Date
		Width	Length	Area	Min.	Max.	Ave.																		
		ft.	ft.	ft².	mils	mils	mils	mils	mils		min	g/cc	g/10 min.	%	(# in Cat. 1)	ppi	psi	ppi	psi	%	%	lbs.	lbs.	lbs.	
Minimum Results (ea. Col.)					70	78	76	23	27		147	0.931	0.34	2.1	10	226.3	2939	249.3	3263	480	601	60	56	146	
49	FNB0047810051	23	410.0	9,430	73	81	78	28	34	DKJ810770	214	0.933	0.34	2.7	10	264.2	3387	285.9	3665	520	638	73	74	157	12/9/2019
50	FNB0047810052	23	410.0	9,430	74	80	78	27	32	DKJ810770	214	0.935	0.34	2.4	10	258.8	3318	291.8	3741	540	661	74	73	156	12/9/2019
51	FNB0047810053	23	410.0	9,430	76	82	79	28	33	DKJ810770	214	0.935	0.34	2.4	10	262.1	3318	295.5	3741	540	661	74	73	156	12/9/2019
52	FNB0047810054	23	410.0	9,430	74	81	79	29	33	DKJ810770	214	0.935	0.34	2.4	10	262.1	3318	295.5	3741	540	661	74	73	156	12/9/2019
53	FNB0047810055	23	410.0	9,430	75	79	78	27	34	DKJ810770	214	0.935	0.34	2.5	10	258.8	3318	291.8	3741	540	661	74	73	156	12/9/2019
54	FNB0047810056	23	410.0	9,430	76	81	79	28	37	DKJ810770	214	0.935	0.34	2.5	10	262.1	3318	295.5	3741	540	661	74	73	156	12/9/2019
55	FNB0047810057	23	410.0	9,430	76	82	78	26	34	DKJ810770	214	0.934	0.34	2.5	10	256.2	3284	279.4	3582	519	645	66	61	155	12/9/2019
56	FNB0047810058	23	410.0	9,430	76	82	79	28	31	DKJ810770	214	0.934	0.34	2.5	10	259.4	3284	283	3582	519	645	66	61	155	12/9/2019
57	FNB0047810059	23	410.0	9,430	75	82	78	27	34	DKJ810770	214	0.934	0.34	2.5	10	256.2	3284	279.4	3582	519	645	66	61	155	12/9/2019
58	FNB0047810060	23	410.0	9,430	74	83	78	30	33	DKJ810770	214	0.934	0.34	2.5	10	256.2	3284	279.4	3582	519	645	66	61	155	12/9/2019
59	FNB0047810061	23	410.0	9,430	76	82	79	30	31	DKJ810770	214	0.934	0.34	2.5	10	259.4	3284	283	3582	519	645	66	61	155	12/9/2019
60	FNB0047810062	23	410.0	9,430	74	83	78	26	33	DKJ810770	214	0.933	0.34	2.4	10	256.2	3285	282.8	3625	513	625	65	62	155	12/9/2019
61	FNB0047810063	23	410.0	9,430	75	82	79	27	33	DKJ810770	214	0.933	0.34	2.4	10	259.5	3285	286.4	3625	513	625	65	62	155	12/9/2019
62	FNB0047810064	23	410.0	9,430	76	82	78	26	34	DKJ810770	214	0.933	0.34	2.4	10	256.2	3285	282.8	3625	513	625	65	62	155	12/9/2019
63	FNB0047810065	23	410.0	9,430	76	81	78	28	33	DKJ810770	214	0.933	0.34	2.4	10	256.2	3285	282.8	3625	513	625	65	62	155	12/9/2019
64	FNB0047810066	23	410.0	9,430	74	82	78	28	34	DKJ810770	214	0.933	0.34	2.4	10	256.2	3285	282.8	3625	513	625	65	62	155	12/9/2019
65	FNB0047810067	23	410.0	9,430	74	81	77	29	34	DKJ810770	214	0.933	0.34	2.6	10	257.9	3349	278.4	3616	527	640	65	62	158	12/9/2019
66	FNB0047810068	23	410.0	9,430	75	81	79	25	34	DKJ810770	214	0.933	0.34	2.6	10	264.6	3349	285.7	3616	527	640	65	62	158	12/9/2019
67	FNB0047810069	23	410.0	9,430	74	81	79	28	31	DKJ810770	214	0.933	0.34	2.6	10	264.6	3349	285.7	3616	527	640	65	62	158	12/10/2019
68	FNB0047810070	23	410.0	9,430	74	81	78	27	36	DKJ810770	214	0.933	0.34	2.3	10	261.2	3349	282	3616	527	640	65	62	158	12/10/2019
69	FNB0047810071	23	410.0	9,430	76	79	78	29	31	DKJ810770	214	0.933	0.34	2.3	10	261.2	3349	282	3616	527	640	65	62	158	12/10/2019
70	FNB0047810072	23	410.0	9,430	74	82	78	27	32	DKJ810770	214	0.933	0.34	2.3	10	253.1	3245	269.8	3459	529	623	71	68	156	12/10/2019
71	FNB0047810073	23	410.0	9,430	74	82	78	27	33	DKJ810770	214	0.933	0.34	2.3	10	253.1	3245	269.8	3459	529	623	71	68	156	12/10/2019
72	FNB0047810074	23	410.0	9,430	75	81	78	25	34	DKJ810770	214	0.933	0.34	2.3	10	253.1	3245	269.8	3459	529	623	71	68	156	12/10/2019

agru america
quality control dept.

Maria Coffey-Manager
Quality Control Department

Newmont Mining
Cripple Creek & Victor Gold Mining Co
1632 County Road 82
Cripple Creek, CO 80813

SO#: **00005731**
Liner Type: **80LL micro**
Item: **FG-LDMSDS080BBBEG**
Current # of Rolls: **315**
Roll Count: **1-315 (all)**
Report Date: 10/13/2020 **ENGLISH**

					ASTM D5994 (Modified)			ASTM D7466			ASTM D3895	ASTM D792	ASTM D1238	ASTM D4218	ASTM D5596	ASTM D6693						ASTM D1004		ASTM D4833	
Count	Roll #	(English)			Thickness (English)			Asperity (Top)	Asperity (Bottom)	Lot #	OIT (Standard)	Specific Gravity	Melt Flow Index	Carbon Black Content	Carbon Black Disp.	Tensile Str. @Break (MD)		Tensile Str. @Break (TD)		Elong. @Break (MD)	Elong. @Break (TD)	Tear Resistance (MD)	Tear Resistance (TD)	Puncture Resistance	Production Date
		Width	Length	Area	Min.	Max.	Ave.																		
		ft.	ft.	ft².	mils	mils	mils	mils	mils		min	g/cc	g/10 min.	%	(# in Cat. 1)	ppi	psi	ppi	psi	%	%	lbs.	lbs.	lbs.	
Minimum Results (ea. Col.)					70	78	76	23	27		147	0.931	0.34	2.1	10	226.3	2939	249.3	3263	480	601	60	56	146	
73	FNB0047810075	23	410.0	9,430	74	82	77	27	34	DKJ810770	214	0.933	0.34	2.2	10	249.9	3245	266.3	3459	529	623	71	68	156	12/10/2019
74	FNB0047810076	23	410.0	9,430	76	80	78	26	34	DKJ810770	214	0.933	0.34	2.2	10	253.1	3245	269.8	3459	529	623	71	68	156	12/10/2019
75	FNB0047810077	23	410.0	9,430	75	80	78	26	35	DKJ810770	214	0.933	0.34	2.5	10	250.1	3207	276.3	3542	531	628	67	62	146	12/10/2019
76	FNB0047810078	23	410.0	9,430	76	81	78	26	33	DKJ810770	214	0.933	0.34	2.5	10	250.1	3207	276.3	3542	531	628	67	62	146	12/10/2019
77	FNB0047810079	23	410.0	9,430	77	81	78	26	34	DKJ810770	214	0.933	0.34	2.5	10	250.1	3207	276.3	3542	531	628	67	62	146	12/10/2019
78	FNB0047810080	23	410.0	9,430	75	80	77	26	38	DKJ810770	214	0.933	0.34	2.3	10	246.9	3207	272.7	3542	531	628	67	62	146	12/10/2019
79	FNB0047810081	23	410.0	9,430	73	80	78	27	35	DKJ810770	214	0.933	0.34	2.3	10	250.1	3207	276.3	3542	531	628	67	62	146	12/10/2019
80	FNB0047810082	23	410.0	9,430	76	80	77	27	33	DKJ810770	214	0.935	0.34	2.5	10	256.1	3326	266.3	3459	519	624	65	61	154	12/10/2019
81	FNB0047810083	23	410.0	9,430	75	82	78	26	34	DKJ810770	214	0.935	0.34	2.5	10	259.4	3326	269.8	3459	519	624	65	61	154	12/10/2019
82	FNB0047810084	23	410.0	9,430	76	82	78	27	36	DKJ810770	214	0.935	0.34	2.5	10	259.4	3326	269.8	3459	519	624	65	61	154	12/10/2019
83	FNB0047810085	23	410.0	9,430	76	81	79	28	34	DKJ810770	214	0.933	0.34	2.4	10	262.8	3326	273.3	3459	519	624	65	61	154	12/10/2019
84	FNB0047810086	23	410.0	9,430	74	81	78	30	33	DKJ810770	214	0.933	0.34	2.4	10	259.4	3326	269.8	3459	519	624	65	61	154	12/10/2019
85	FNB0047810087	23	410.0	9,430	75	81	78	28	32	DKJ810770	214	0.934	0.34	2.5	10	281.8	3613	285	3654	526	634	64	62	155	12/10/2019
86	FNB0047810088	23	410.0	9,430	76	80	78	29	33	DKJ810770	214	0.934	0.34	2.5	10	281.8	3613	285	3654	526	634	64	62	155	12/11/2019
87	FNB0047810089	23	410.0	9,430	77	81	79	29	34	DKJ810770	214	0.934	0.34	2.5	10	285.4	3613	288.7	3654	526	634	64	62	155	12/11/2019
88	FNB0047810090	23	410.0	9,430	76	80	78	29	33	DKJ810770	214	0.934	0.34	2.3	10	281.8	3613	285	3654	526	634	64	62	155	12/11/2019
89	FNB0047810091	23	410.0	9,430	75	82	78	27	32	DKJ810770	214	0.934	0.34	2.3	10	281.8	3613	285	3654	526	634	64	62	155	12/11/2019
90	FNB0047810092	23	410.0	9,430	74	84	79	27	34	DKJ810770	214	0.932	0.34	2.4	10	286.8	3631	292.2	3699	551	640	65	63	157	12/11/2019
91	FNB0047810093	23	410.0	9,430	74	81	79	24	35	DKJ810770	214	0.932	0.34	2.4	10	286.8	3631	292.2	3699	551	640	65	63	157	12/11/2019
92	FNB0047810094	23	410.0	9,430	72	81	78	25	36	DKJ810770	214	0.932	0.34	2.4	10	283.2	3631	288.5	3699	551	640	65	63	157	12/11/2019
93	FNB0047810095	23	410.0	9,430	73	81	77	25	35	DKK810700	200	0.932	0.37	2.4	10	279.6	3631	284.8	3699	551	640	65	63	157	12/11/2019
94	FNB0047810096	23	410.0	9,430	72	83	78	26	35	DKK810700	200	0.932	0.37	2.4	10	283.2	3631	288.5	3699	551	640	65	63	157	12/11/2019
95	FNB0047810097	23	410.0	9,430	71	84	78	25	35	DKK810700	200	0.932	0.37	2.4	10	265.8	3408	281.7	3612	530	636	68	69	156	12/11/2019
96	FNB0047810098	23	410.0	9,430	72	82	78	25	35	DKK810700	200	0.932	0.37	2.4	10	265.8	3408	281.7	3612	530	636	68	69	156	12/11/2019

agru america quality control dept.

Maria Coffey-Manager
Quality Control Department

Newmont Mining
Cripple Creek & Victor Gold Mining Co
1632 County Road 82
Cripple Creek, CO 80813

SO#: **00005731**
Liner Type: **80LL micro**
Item: **FG-LDMSDS080BBBEG**
Current # of Rolls: **315**
Roll Count: **1-315 (all)**
Report Date: 10/13/2020 **ENGLISH**

					ASTM D5994 (Modified)			ASTM D7466			ASTM D3895	ASTM D792	ASTM D1238	ASTM D4218	ASTM D5596	ASTM D6693						ASTM D1004		ASTM D4833	
Count	Roll #	(English)			Thickness (English)			Asperity (Top)	Asperity (Bottom)	Lot #	OIT (Standard)	Specific Gravity	Melt Flow Index	Carbon Black Content	Carbon Black Disp.	Tensile Str. @Break (MD)		Tensile Str. @Break (TD)		Elong. @Break (MD)	Elong. @Break (TD)	Tear Resistance (MD)	Tear Resistance (TD)	Puncture Resistance	Production Date
		Width	Length	Area	Min.	Max.	Ave.																		
		ft.	ft.	ft².	mils	mils	mils	mils	mils		min	g/cc	g/10 min.	%	(# in Cat. 1)	ppi	psi	ppi	psi	%	%	lbs.	lbs.	lbs.	
	Minimum Results (ea. Col.)				70	78	76	23	27		147	0.931	0.34	2.1	10	226.3	2939	249.3	3263	480	601	60	56	146	
97	FNB0047810099	23	410.0	9,430	74	83	79	24	35	DKK810700	200	0.932	0.37	2.4	10	269.2	3408	285.3	3612	530	636	68	69	156	12/11/2019
98	FNB0047810100	23	410.0	9,430	72	85	79	24	35	DKK810700	200	0.932	0.37	2.4	10	269.2	3408	285.3	3612	530	636	68	69	156	12/11/2019
99	FNB0047810101	23	410.0	9,430	74	80	78	27	32	DKK810700	200	0.932	0.37	2.4	10	265.8	3408	281.7	3612	530	636	68	69	156	12/11/2019
100	FNB0047810102	23	410.0	9,430	75	81	78	29	33	DKK810700	200	0.934	0.37	2.4	10	290.6	3726	277.3	3555	535	608	67	62	160	12/11/2019
101	FNB0047810103	23	410.0	9,430	75	83	79	30	34	DKK810700	200	0.934	0.37	2.4	10	294.4	3726	280.8	3555	535	608	67	62	160	12/11/2019
102	FNB0047810104	23	410.0	9,430	77	81	79	29	33	DKK810700	200	0.934	0.37	2.4	10	294.4	3726	280.8	3555	535	608	67	62	160	12/11/2019
103	FNB0047810105	23	410.0	9,430	76	80	78	29	33	DKK810700	200	0.934	0.37	2.3	10	290.6	3726	277.3	3555	535	608	67	62	160	12/11/2019
104	FNB0047810106	23	410.0	9,430	74	83	79	28	33	DKK810700	200	0.934	0.37	2.3	10	294.4	3726	280.8	3555	535	608	67	62	160	12/12/2019
105	FNB0047810107	23	410.0	9,430	74	82	78	29	33	DKK810700	200	0.932	0.37	2.4	10	270.7	3470	296.6	3803	520	666	66	66	156	12/12/2019
106	FNB0047810108	23	410.0	9,430	74	81	78	28	33	DKK810700	200	0.932	0.37	2.4	10	270.7	3470	296.6	3803	520	666	66	66	156	12/12/2019
107	FNB0047810109	23	410.0	9,430	74	81	78	28	33	DKK810700	200	0.932	0.37	2.4	10	270.7	3470	296.6	3803	520	666	66	66	156	12/12/2019
108	FNB0047810110	23	410.0	9,430	77	81	78	28	33	DKK810700	200	0.932	0.37	2.3	10	270.7	3470	296.6	3803	520	666	66	66	156	12/12/2019
109	FNB0047810111	23	410.0	9,430	72	83	78	25	36	DKK810700	200	0.932	0.37	2.3	10	270.7	3470	296.6	3803	520	666	66	66	156	12/12/2019
110	FNB0047810112	23	410.0	9,430	73	83	79	24	37	DKK810700	200	0.932	0.37	2.4	10	277.2	3509	286.6	3628	546	641	70	67	152	12/12/2019
111	FNB0047810113	23	410.0	9,430	74	83	79	25	35	DKK810700	200	0.932	0.37	2.4	10	277.2	3509	286.6	3628	546	641	70	67	152	12/12/2019
112	FNB0047810114	23	410.0	9,430	74	83	79	26	37	DKK810700	200	0.932	0.37	2.4	10	277.2	3509	286.6	3628	546	641	70	67	152	12/12/2019
113	FNB0047810115	23	410.0	9,430	73	81	78	26	36	DKK810700	200	0.932	0.37	2.4	10	273.7	3509	283	3628	546	641	70	67	152	12/12/2019
114	FNB0047810116	23	410.0	9,430	73	82	77	25	36	DKK810700	200	0.932	0.37	2.4	10	270.2	3509	279.4	3628	546	641	70	67	152	12/12/2019
115	FNB0047810117	23	410.0	9,430	75	85	78	27	39	DKK810700	200	0.933	0.37	2.4	10	240.5	3083	281.5	3609	542	638	70	63	153	12/12/2019
116	FNB0047810118	23	410.0	9,430	74	83	78	25	34	DKK810700	200	0.933	0.37	2.4	10	240.5	3083	281.5	3609	542	638	70	63	153	12/12/2019
117	FNB0047810119	23	410.0	9,430	76	85	79	26	35	DKK810700	200	0.933	0.37	2.4	10	243.6	3083	285.1	3609	542	638	70	63	153	12/12/2019
118	FNB0047810120	23	410.0	9,430	76	83	79	25	33	DKK810700	200	0.933	0.37	2.4	10	243.6	3083	285.1	3609	542	638	70	63	153	12/12/2019
119	FNB0047810121	23	410.0	9,430	75	81	78	28	34	DKK810700	200	0.933	0.37	2.4	10	240.5	3083	281.5	3609	542	638	70	63	153	12/12/2019
120	FNB0047810122	23	410.0	9,430	75	80	78	28	32	DKK810700	200	0.934	0.37	2.3	10	280.8	3600	277.6	3559	562	627	63	61	154	12/12/2019

agru america
quality control dept.

Maria Coffey-Manager
Quality Control Department

Newmont Mining
Cripple Creek & Victor Gold Mining Co
1632 County Road 82
Cripple Creek, CO 80813

SO#: **00005731**
Liner Type: **80LL micro**
Item: **FG-LDMSDS080BBBEG**
Current # of Rolls: **315**
Roll Count: **1-315** **(all)**
Report Date: 10/13/2020 **ENGLISH**

					ASTM D5994 (Modified)			ASTM D7466			ASTM D3895	ASTM D792	ASTM D1238	ASTM D4218	ASTM D5596	ASTM D6693						ASTM D1004		ASTM D4833	
Count	Roll #	(English)			Thickness (English)			Asperity (Top)	Asperity (Bottom)	Lot #	OIT (Standard)	Specific Gravity	Melt Flow Index	Carbon Black Content	Carbon Black Disp.	Tensile Str. @Break (MD)		Tensile Str. @Break (TD)		Elong. @Break (MD)	Elong. @Break (TD)	Tear Resistance (MD)	Tear Resistance (TD)	Puncture Resistance	Production Date
		Width	Length	Area	Min.	Max.	Ave.																		
		ft.	ft.	ft².	mils	mils	mils	mils	mils		min	g/cc	g/10 min.	%	(# in Cat. 1)	ppi	psi	ppi	psi	%	%	lbs.	lbs.	lbs.	
	Minimum Results (ea. Col.)				70	78	76	23	27		147	0.931	0.34	2.1	10	226.3	2939	249.3	3263	480	601	60	56	146	
121	FNB0047810123	23	410.0	9,430	75	79	78	28	36	DKK810700	200	0.934	0.37	2.3	10	280.8	3600	277.6	3559	562	627	63	61	154	12/12/2019
122	FNB0047810124	23	410.0	9,430	75	80	78	29	34	DKK810700	200	0.934	0.37	2.3	10	280.8	3600	277.6	3559	562	627	63	61	154	12/12/2019
123	FNB0047810125	23	410.0	9,430	75	80	78	28	35	DKK810700	200	0.934	0.37	2.4	10	280.8	3600	277.6	3559	562	627	63	61	154	12/13/2019
124	FNB0047810126	23	410.0	9,430	74	79	77	28	33	DKK810700	200	0.934	0.37	2.4	10	277.2	3600	274	3559	562	627	63	61	154	12/13/2019
125	FNB0047810127	23	410.0	9,430	77	82	79	29	34	DKK810700	200	0.933	0.37	2.3	10	264.9	3353	278.9	3531	545	621	65	64	151	12/13/2019
126	FNB0047810128	23	410.0	9,430	75	81	78	28	36	DKK810700	200	0.933	0.37	2.3	10	261.5	3353	275.4	3531	545	621	65	64	151	12/13/2019
127	FNB0047810129	23	410.0	9,430	73	80	77	28	35	DKK810700	200	0.933	0.37	2.3	10	258.2	3353	271.9	3531	545	621	65	64	151	12/13/2019
128	FNB0047810130	23	410.0	9,430	75	81	78	27	36	DKK810700	200	0.933	0.37	2.2	10	261.5	3353	275.4	3531	545	621	65	64	151	12/13/2019
129	FNB0047810131	23	410.0	9,430	76	83	79	26	34	DKK810700	200	0.933	0.37	2.2	10	264.9	3353	278.9	3531	545	621	65	64	151	12/13/2019
130	FNB0047810132	23	410.0	9,430	77	82	80	25	34	DKK810700	200	0.934	0.37	2.3	10	269.6	3370	281.8	3522	522	618	65	64	154	12/13/2019
131	FNB0047810133	23	410.0	9,430	76	82	79	27	35	DKK810700	200	0.934	0.37	2.3	10	266.2	3370	278.2	3522	522	618	65	64	154	12/13/2019
132	FNB0047810134	23	410.0	9,430	77	83	80	26	35	DKK810700	200	0.934	0.37	2.3	10	269.6	3370	281.8	3522	522	618	65	64	154	12/13/2019
133	FNB0047810135	23	410.0	9,430	77	82	79	27	38	DKK810700	200	0.934	0.37	2.6	10	266.2	3370	278.2	3522	522	618	65	64	154	12/13/2019
134	FNB0047810136	23	410.0	9,430	76	81	79	27	37	DKK810700	200	0.934	0.37	2.6	10	266.2	3370	278.2	3522	522	618	65	64	154	12/13/2019
135	FNB0047810137	23	410.0	9,430	76	81	79	26	37	DKK810700	200	0.934	0.37	2.4	10	262.4	3321	291.7	3692	530	656	64	60	151	12/13/2019
136	FNB0047810138	23	410.0	9,430	77	83	79	26	35	DKK810700	200	0.934	0.37	2.4	10	262.4	3321	291.7	3692	530	656	64	60	151	12/13/2019
137	FNB0047810139	23	410.0	9,430	77	81	79	28	33	DKK810700	200	0.934	0.37	2.4	10	262.4	3321	291.7	3692	530	656	64	60	151	12/13/2019
138	FNB0047810140	23	410.0	9,430	75	81	78	28	34	DKK810700	200	0.934	0.37	2.5	10	259	3321	288	3692	530	656	64	60	151	12/13/2019
139	FNB0047810141	23	410.0	9,430	75	81	78	27	33	DKK810700	200	0.934	0.37	2.5	10	259	3321	288	3692	530	656	64	60	151	12/13/2019
140	FNB0047810142	23	410.0	9,430	75	81	78	27	36	DKK810700	200	0.933	0.37	2.4	10	260.1	3334	274.5	3519	531	628	65	64	153	12/13/2019
141	FNB0047810143	23	410.0	9,430	75	79	77	28	33	DKK810700	200	0.933	0.37	2.4	10	256.7	3334	271	3519	531	628	65	64	153	12/14/2019
142	FNB0047810144	23	410.0	9,430	76	82	80	28	34	DKK810700	200	0.933	0.37	2.4	10	266.7	3334	281.5	3519	531	628	65	64	153	12/14/2019
143	FNB0047810145	23	410.0	9,430	74	83	78	30	36	DKK810700	200	0.933	0.37	2.3	10	260.1	3334	274.5	3519	531	628	65	64	153	12/14/2019
144	FNB0047810146	23	410.0	9,430	75	82	78	28	34	DKK810700	200	0.933	0.37	2.3	10	260.1	3334	274.5	3519	531	628	65	64	153	12/14/2019

agru america quality control dept.

Maria Coffey-Manager
Quality Control Department

Newmont Mining
Cripple Creek & Victor Gold Mining Co
1632 County Road 82
Cripple Creek, CO 80813

SO#: **00005731**
Liner Type: **80LL micro**
Item: **FG-LDMSDS080BBBEG**
Current # of Rolls: **315**
Roll Count: **1-315 (all)**
Report Date: 10/13/2020 **ENGLISH**

					ASTM D5994 (Modified)			ASTM D7466			ASTM D3895	ASTM D792	ASTM D1238	ASTM D4218	ASTM D5596	ASTM D6693						ASTM D1004		ASTM D4833	
Count	Roll #	(English)			Thickness (English)			Asperity (Top)	Asperity (Bottom)	Lot #	OIT (Standard)	Specific Gravity	Melt Flow Index	Carbon Black Content	Carbon Black Disp.	Tensile Str. @Break (MD)		Tensile Str. @Break (TD)		Elong. @Break (MD)	Elong. @Break (TD)	Tear Resistance (MD)	Tear Resistance (TD)	Puncture Resistance	Production Date
		Width	Length	Area	Min.	Max.	Ave.																		
		ft.	ft.	ft².	mils	mils	mils	mils	mils		min	g/cc	g/10 min.	%	(# in Cat. 1)	ppi	psi	ppi	psi	%	%	lbs.	lbs.	lbs.	
Minimum Results (ea. Col.)					70	78	76	23	27		147	0.931	0.34	2.1	10	226.3	2939	249.3	3263	480	601	60	56	146	
145	FNB0047810147	23	410.0	9,430	77	83	79	27	33	DKK810700	200	0.932	0.37	2.3	10	270.3	3422	292.4	3701	527	631	74	72	157	12/14/2019
146	FNB0047810148	23	410.0	9,430	76	82	79	28	32	DKK810700	200	0.932	0.37	2.3	10	270.3	3422	292.4	3701	527	631	74	72	157	12/14/2019
147	FNB0047810149	23	410.0	9,430	76	84	79	31	34	DKK810700	200	0.932	0.37	2.3	10	270.3	3422	292.4	3701	527	631	74	72	157	12/14/2019
148	FNB0047810150	23	410.0	9,430	77	83	80	31	39	DKK810700	200	0.932	0.37	2.4	10	273.8	3422	296.1	3701	527	631	74	72	157	12/14/2019
149	FNB0047810151	23	410.0	9,430	77	80	79	35	33	DKK810700	200	0.932	0.37	2.4	10	270.3	3422	292.4	3701	527	631	74	72	157	12/14/2019
150	FNB0047810152	23	410.0	9,430	75	82	79	29	38	DKK810700	200	0.933	0.37	2.3	10	257.1	3255	278.7	3528	527	636	63	65	152	12/14/2019
151	FNB0047810153	23	410.0	9,430	77	81	79	29	35	DKK810700	200	0.933	0.37	2.3	10	257.1	3255	278.7	3528	527	636	63	65	152	12/14/2019
152	FNB0047810154	23	410.0	9,430	75	82	78	31	37	DKK810700	200	0.933	0.37	2.3	10	253.9	3255	275.2	3528	527	636	63	65	152	12/14/2019
153	FNB0047810155	23	410.0	9,430	76	82	79	33	35	DKK810700	200	0.934	0.39	2.4	10	257.1	3255	278.7	3528	527	636	63	65	152	12/14/2019
154	FNB0047810156	23	410.0	9,430	76	82	79	31	36	DKK810700	200	0.934	0.39	2.4	10	257.1	3255	278.7	3528	527	636	63	65	152	12/14/2019
155	FNB0047810157	23	410.0	9,430	73	81	78	27	35	DKK810700	200	0.933	0.39	2.3	10	265.2	3400	297.4	3813	538	659	67	58	154	12/14/2019
156	FNB0047810158	23	410.0	9,430	74	80	78	27	33	DKK810700	200	0.933	0.39	2.3	10	265.2	3400	297.4	3813	538	659	67	58	154	12/14/2019
157	FNB0047810159	23	410.0	9,430	75	81	77	27	32	DKK810700	200	0.933	0.39	2.3	10	261.8	3400	293.6	3813	538	659	67	58	154	12/14/2019
158	FNB0047810160	23	410.0	9,430	74	81	76	33	32	DKK810700	200	0.933	0.39	2.2	10	258.4	3400	289.8	3813	538	659	67	58	154	12/14/2019
159	FNB0047810161	23	410.0	9,430	75	83	77	30	31	DKK810700	200	0.933	0.39	2.2	10	261.8	3400	293.6	3813	538	659	67	58	154	12/14/2019
160	FNB0047810162	23	410.0	9,430	76	84	78	34	31	DKK810700	200	0.935	0.39	2.4	10	273.2	3502	300.1	3847	554	656	77	72	152	12/15/2019
161	FNB0047810163	23	410.0	9,430	75	84	79	28	33	DKK810700	200	0.935	0.39	2.4	10	276.7	3502	303.9	3847	554	656	77	72	152	12/15/2019
162	FNB0047810164	23	410.0	9,430	75	80	78	28	33	DKK810700	200	0.935	0.39	2.4	10	273.2	3502	300.1	3847	554	656	77	72	152	12/15/2019
163	FNB0047810165	23	410.0	9,430	75	80	78	27	33	DKK810700	200	0.935	0.39	2.4	10	273.2	3502	300.1	3847	554	656	77	72	152	12/15/2019
164	FNB0047810166	23	410.0	9,430	76	80	78	28	33	DKK810700	200	0.935	0.39	2.4	10	273.2	3502	300.1	3847	554	656	77	72	152	12/15/2019
165	FNB0047810167	23	410.0	9,430	76	82	79	27	37	DKK810700	200	0.934	0.39	2.5	10	256.6	3248	271.4	3436	518	625	66	63	154	12/15/2019
166	FNB0047810168	23	410.0	9,430	76	82	79	31	36	DKK810700	200	0.934	0.39	2.5	10	256.6	3248	271.4	3436	518	625	66	63	154	12/15/2019
167	FNB0047810169	23	410.0	9,430	76	82	78	28	36	DKK810700	200	0.934	0.39	2.5	10	253.3	3248	268	3436	518	625	66	63	154	12/15/2019
168	FNB0047810170	23	410.0	9,430	76	82	79	28	37	DKK810700	200	0.934	0.39	2.2	10	256.6	3248	271.4	3436	518	625	66	63	154	12/15/2019

agru america quality control dept.

Maria Coffey-Manager
Quality Control Department

Newmont Mining
Cripple Creek & Victor Gold Mining Co
1632 County Road 82
Cripple Creek, CO 80813

SO#: **00005731**
Liner Type: **80LL micro**
Item: **FG-LDMSDS080BBBEG**
Current # of Rolls: **315**
Roll Count: **1-315 (all)**
Report Date: 10/13/2020 **ENGLISH**

					ASTM D5994 (Modified)			ASTM D7466			ASTM D3895	ASTM D792	ASTM D1238	ASTM D4218	ASTM D5596	ASTM D6693						ASTM D1004		ASTM D4833	
Count	Roll #	(English)			Thickness (English)			Asperity (Top)	Asperity (Bottom)	Lot #	OIT (Standard)	Specific Gravity	Melt Flow Index	Carbon Black Content	Carbon Black Disp.	Tensile Str. @Break (MD)		Tensile Str. @Break (TD)		Elong. @Break (MD)	Elong. @Break (TD)	Tear Resistance (MD)	Tear Resistance (TD)	Puncture Resistance	Production Date
		Width	Length	Area	Min.	Max.	Ave.																		
		ft.	ft.	ft².	mils	mils	mils	mils	mils		min	g/cc	g/10 min.	%	(# in Cat. 1)	ppi	psi	ppi	psi	%	%	lbs.	lbs.	lbs.	
Minimum Results (ea. Col.)					70	78	76	23	27		147	0.931	0.34	2.1	10	226.3	2939	249.3	3263	480	601	60	56	146	
169	FNB0047810171	23	410.0	9,430	74	81	78	26	35	DKK810700	200	0.934	0.39	2.2	10	253.3	3248	268	3436	518	625	66	63	154	12/15/2019
170	FNB0047810172	23	410.0	9,430	75	81	78	27	37	DKK810700	200	0.934	0.39	2.3	10	246.7	3163	283.1	3630	533	656	63	62	153	12/15/2019
171	FNB0047810173	23	410.0	9,430	75	82	79	30	36	DKK810700	200	0.934	0.39	2.3	10	249.9	3163	286.8	3630	533	656	63	62	153	12/15/2019
172	FNB0047810174	23	410.0	9,430	73	84	78	27	35	DKK810700	200	0.934	0.39	2.3	10	246.7	3163	283.1	3630	533	656	63	62	153	12/15/2019
173	FNB0047810175	23	410.0	9,430	76	81	78	26	33	DKK810700	200	0.933	0.39	2.4	10	246.7	3163	283.1	3630	533	656	63	62	153	12/15/2019
174	FNB0047810176	23	410.0	9,430	76	84	80	26	39	DKK810700	200	0.933	0.39	2.4	10	253	3163	290.4	3630	533	656	63	62	153	12/15/2019
175	FNB0047810177	23	410.0	9,430	77	85	80	28	34	DKK810700	200	0.933	0.39	2.5	10	286.9	3586	306.7	3834	520	644	70	67	156	12/15/2019
176	FNB0047810178	23	410.0	9,430	75	84	80	29	36	DKK810700	200	0.933	0.39	2.5	10	286.9	3586	306.7	3834	520	644	70	67	156	12/15/2019
177	FNB0047810179	23	410.0	9,430	74	82	79	27	35	DKK810700	200	0.933	0.39	2.5	10	283.3	3586	302.9	3834	520	644	70	67	156	12/15/2019
178	FNB0047810180	23	410.0	9,430	76	83	79	28	35	DKK810700	200	0.933	0.39	2.4	10	283.3	3586	302.9	3834	520	644	70	67	156	12/16/2019
179	FNB0047810181	23	410.0	9,430	77	81	79	29	35	DKK810700	200	0.933	0.39	2.4	10	283.3	3586	302.9	3834	520	644	70	67	156	12/16/2019
180	FNB0047810182	23	410.0	9,430	74	80	77	29	36	DKK810700	200	0.932	0.39	2.4	10	285.9	3713	285	3701	541	635	70	65	157	12/16/2019
181	FNB0047810183	23	410.0	9,430	75	83	80	28	35	DKK810700	200	0.932	0.39	2.4	10	297	3713	296.1	3701	541	635	70	65	157	12/16/2019
182	FNB0047810184	23	410.0	9,430	75	82	79	28	35	DKK810700	200	0.932	0.39	2.4	10	293.3	3713	292.4	3701	541	635	70	65	157	12/16/2019
183	FNB0047810185	23	410.0	9,430	74	82	79	28	36	DKK810700	200	0.932	0.39	2.3	10	293.3	3713	292.4	3701	541	635	70	65	157	12/16/2019
184	FNB0047810186	23	410.0	9,430	76	85	79	34	37	DKK810700	200	0.932	0.39	2.3	10	293.3	3713	292.4	3701	541	635	70	65	157	12/16/2019
185	FNB0047810187	23	410.0	9,430	74	82	79	23	36	DKK810700	200	0.933	0.39	2.2	10	297.1	3761	307.4	3891	543	644	72	67	148	12/16/2019
186	FNB0047810188	23	410.0	9,430	73	83	79	33	32	DKJ810710	147	0.933	0.34	2.2	10	297.1	3761	307.4	3891	543	644	72	67	148	12/16/2019
187	FNB0047810189	23	410.0	9,430	78	83	81	27	36	DKJ810710	147	0.933	0.34	2.2	10	304.6	3761	315.2	3891	543	644	72	67	148	12/16/2019
188	FNB0047810190	23	410.0	9,430	78	84	81	30	35	DKJ810710	147	0.933	0.34	2.1	10	304.6	3761	315.2	3891	543	644	72	67	148	12/16/2019
189	FNB0047810191	23	410.0	9,430	76	86	81	27	37	DKJ810710	147	0.933	0.34	2.1	10	304.6	3761	315.2	3891	543	644	72	67	148	12/16/2019
190	FNB0047810192	23	410.0	9,430	76	81	79	28	36	DKJ810710	147	0.934	0.34	2.5	10	279.8	3542	306.8	3884	526	633	72	67	151	12/16/2019
191	FNB0047810193	23	410.0	9,430	77	82	80	24	36	DKJ810710	147	0.934	0.34	2.5	10	283.4	3542	310.7	3884	526	633	72	67	151	12/16/2019
192	FNB0047810194	23	410.0	9,430	75	81	78	27	35	DKJ810710	147	0.934	0.34	2.5	10	276.3	3542	303	3884	526	633	72	67	151	12/16/2019

agru america
quality control dept.

Maria Coffey-Manager
Quality Control Department

Newmont Mining
Cripple Creek & Victor Gold Mining Co
1632 County Road 82
Cripple Creek, CO 80813

SO#: **00005731**
Liner Type: **80LL micro**
Item: **FG-LDMSDS080BBBEG**
Current # of Rolls: **315**
Roll Count: **1-315 (all)**
Report Date: 10/13/2020 **ENGLISH**

					ASTM D5994 (Modified)			ASTM D7466			ASTM D3895	ASTM D792	ASTM D1238	ASTM D4218	ASTM D5596	ASTM D6693						ASTM D1004		ASTM D4833	
Count	Roll #	(English)			Thickness (English)			Asperity (Top)	Asperity (Bottom)	Lot #	OIT (Standard)	Specific Gravity	Melt Flow Index	Carbon Black Content	Carbon Black Disp.	Tensile Str. @Break (MD)		Tensile Str. @Break (TD)		Elong. @Break (MD)	Elong. @Break (TD)	Tear Resistance (MD)	Tear Resistance (TD)	Puncture Resistance	Production Date
		Width	Length	Area	Min.	Max.	Ave.																		
		ft.	ft.	ft².	mils	mils	mils	mils	mils		min	g/cc	g/10 min.	%	(# in Cat. 1)	ppi	psi	ppi	psi	%	%	lbs.	lbs.	lbs.	
Minimum Results (ea. Col.)					70	78	76	23	27		147	0.931	0.34	2.1	10	226.3	2939	249.3	3263	480	601	60	56	146	
193	FNB0047810195	23	410.0	9,430	73	80	77	29	33	DKJ810710	147	0.934	0.34	2.2	10	272.7	3542	299.1	3884	526	633	72	67	151	12/16/2019
194	FNB0047810197	23	410.0	9,430	77	82	79	27	32	DKJ810710	147	0.934	0.34	2.2	10	279.8	3542	306.8	3884	526	633	72	67	151	12/16/2019
195	FNB0047810198	23	410.0	9,430	74	82	78	28	32	DKJ810710	147	0.933	0.34	2.4	10	255	3269	273.4	3505	533	643	81	74	154	12/16/2019
196	FNB0047810199	23	410.0	9,430	76	81	78	27	34	DKJ810710	147	0.933	0.34	2.4	10	255	3269	273.4	3505	533	643	81	74	154	12/17/2019
197	FNB0047810200	23	410.0	9,430	74	82	78	26	33	DKJ810710	147	0.933	0.34	2.4	10	255	3269	273.4	3505	533	643	81	74	154	12/17/2019
198	FNB0047810201	23	410.0	9,430	73	82	79	28	30	DKJ810710	147	0.933	0.34	2.5	10	258.3	3269	276.9	3505	533	643	81	74	154	12/17/2019
199	FNB0047810202	23	410.0	9,430	76	84	79	25	31	DKJ810710	147	0.933	0.34	2.5	10	258.3	3269	276.9	3505	533	643	81	74	154	12/17/2019
200	FNB0047810203	23	410.0	9,430	76	82	79	27	31	DKJ810710	147	0.935	0.34	2.4	10	252.4	3195	266.5	3374	522	615	68	76	154	12/17/2019
201	FNB0048240001	23	410.0	9,430	76	82	79	24	33	DKJ810710	147	0.935	0.34	2.4	10	252.4	3195	266.5	3374	522	615	68	76	154	12/17/2019
202	FNB0048240002	23	410.0	9,430	76	82	79	24	33	DKJ810710	147	0.935	0.34	2.4	10	252.4	3195	266.5	3374	522	615	68	76	154	12/17/2019
203	FNB0048240003	23	410.0	9,430	77	82	79	24	34	DKJ810710	147	0.935	0.34	2.4	10	252.4	3195	266.5	3374	522	615	68	76	154	12/17/2019
204	FNB0048240004	23	410.0	9,430	73	84	79	24	33	DKJ810710	147	0.935	0.34	2.4	10	252.4	3195	266.5	3374	522	615	68	76	154	12/17/2019
205	FND0047820005	23	410.0	9,430	74	83	79	27	34	DKK810710	200	0.934	0.39	2.3	10	288.9	3657	295.3	3738	557	622	66	62	159	12/12/2019
206	FND0047820008	23	410.0	9,430	73	81	78	28	33	DKK810710	200	0.934	0.39	2.3	10	285.2	3657	291.6	3738	557	622	66	62	159	12/12/2019
207	FND0047820009	23	410.0	9,430	73	80	77	28	33	DKK810710	200	0.934	0.39	2.4	10	281.6	3657	287.8	3738	557	622	66	62	159	12/13/2019
208	FND0047820010	23	410.0	9,430	73	82	78	28	29	DKK810710	200	0.934	0.39	2.4	10	285.2	3657	291.6	3738	557	622	66	62	159	12/13/2019
209	FND0047820011	23	410.0	9,430	71	81	78	29	33	DKK810710	200	0.932	0.39	2.3	10	271.1	3475	268.2	3439	562	627	66	61	155	12/13/2019
210	FND0047820012	23	410.0	9,430	73	82	78	27	32	DKK810710	200	0.932	0.39	2.3	10	271.1	3475	268.2	3439	562	627	66	61	155	12/13/2019
211	FND0047820013	23	410.0	9,430	73	80	77	28	32	DKK810710	200	0.932	0.39	2.3	10	267.6	3475	264.8	3439	562	627	66	61	155	12/13/2019
212	FND0047820014	23	410.0	9,430	72	81	77	25	33	DKK810710	200	0.932	0.39	2.2	10	267.6	3475	264.8	3439	562	627	66	61	155	12/13/2019
213	FND0047820015	23	410.0	9,430	73	80	77	27	29	DKK810710	200	0.932	0.39	2.2	10	267.6	3475	264.8	3439	562	627	66	61	155	12/13/2019
214	FND0047820016	23	410.0	9,430	72	81	77	26	31	DKK810710	200	0.932	0.39	2.3	10	271.5	3526	273.7	3554	554	643	66	61	156	12/13/2019
215	FND0047820017	23	410.0	9,430	72	82	77	27	33	DKK810710	200	0.932	0.39	2.3	10	271.5	3526	273.7	3554	554	643	66	61	156	12/13/2019
216	FND0047820018	23	410.0	9,430	72	80	77	26	34	DKK810710	200	0.932	0.39	2.3	10	271.5	3526	273.7	3554	554	643	66	61	156	12/13/2019

agru america
quality control dept.

Maria Coffey-Manager
Quality Control Department

Newmont Mining
Cripple Creek & Victor Gold Mining Co
1632 County Road 82
Cripple Creek, CO 80813

SO#: **00005731**
Liner Type: **80LL micro**
Item: **FG-LDMSDS080BBBEG**
Current # of Rolls: **315**
Roll Count: **1-315 (all)**
Report Date: 10/13/2020 **ENGLISH**

					ASTM D5994 (Modified)			ASTM D7466			ASTM D3895	ASTM D792	ASTM D1238	ASTM D4218	ASTM D5596	ASTM D6693						ASTM D1004		ASTM D4833	
Count	Roll #	(English)			Thickness (English)			Asperity (Top)	Asperity (Bottom)	Lot #	OIT (Standard)	Specific Gravity	Melt Flow Index	Carbon Black Content	Carbon Black Disp.	Tensile Str. @Break (MD)		Tensile Str. @Break (TD)		Elong. @Break (MD)	Elong. @Break (TD)	Tear Resistance (MD)	Tear Resistance (TD)	Puncture Resistance	Production Date
		Width	Length	Area	Min.	Max.	Ave.																		
		ft.	ft.	ft².	mils	mils	mils	mils	mils		min	g/cc	g/10 min.	%	(# in Cat. 1)	ppi	psi	ppi	psi	%	%	lbs.	lbs.	lbs.	
	Minimum Results (ea. Col.)				70	78	76	23	27		147	0.931	0.34	2.1	10	226.3	2939	249.3	3263	480	601	60	56	146	
217	FND0047820019	23	410.0	9,430	74	82	78	26	30	DKK810710	200	0.932	0.39	2.3	10	275	3526	277.2	3554	554	643	66	61	156	12/13/2019
218	FND0047820020	23	410.0	9,430	73	81	78	27	35	DKK810710	200	0.932	0.39	2.3	10	275	3526	277.2	3554	554	643	66	61	156	12/13/2019
219	FND0047820021	23	410.0	9,430	71	81	76	28	29	DKK810710	200	0.931	0.39	2.5	10	261.7	3443	276.3	3636	558	649	75	73	156	12/13/2019
220	FND0047820022	23	410.0	9,430	72	84	77	28	32	DKK810710	200	0.931	0.39	2.5	10	265.1	3443	280	3636	558	649	75	73	156	12/13/2019
221	FND0047820023	23	410.0	9,430	72	82	78	28	30	DKK810710	200	0.931	0.39	2.5	10	268.6	3443	283.6	3636	558	649	75	73	156	12/13/2019
222	FND0047820024	23	410.0	9,430	72	80	77	29	31	DKK810710	200	0.931	0.39	2.4	10	265.1	3443	280	3636	558	649	75	73	156	12/13/2019
223	FND0047820025	23	410.0	9,430	73	80	77	29	30	DKK810710	200	0.931	0.39	2.4	10	265.1	3443	280	3636	558	649	75	73	156	12/14/2019
224	FND0047820026	23	410.0	9,430	73	81	77	30	29	DKK810710	200	0.932	0.39	2.4	10	273.8	3556	271.5	3526	567	624	77	71	155	12/14/2019
225	FND0047820027	23	410.0	9,430	72	85	78	30	30	DKK810710	200	0.932	0.39	2.4	10	277.4	3556	275	3526	567	624	77	71	155	12/14/2019
226	FND0047820028	23	410.0	9,430	75	83	78	26	30	DKK810710	200	0.932	0.39	2.4	10	277.4	3556	275	3526	567	624	77	71	155	12/14/2019
227	FND0047820029	23	410.0	9,430	74	82	77	25	34	DKK810710	200	0.932	0.39	2.3	10	273.8	3556	271.5	3526	567	624	77	71	155	12/14/2019
228	FND0047820030	23	410.0	9,430	73	83	78	29	37	DKK810710	200	0.932	0.39	2.3	10	277.4	3556	275	3526	567	624	77	71	155	12/14/2019
229	FND0047820031	23	410.0	9,430	75	83	78	35	33	DKK810710	200	0.931	0.39	2.4	10	275.1	3527	263	3372	556	621	66	64	156	12/14/2019
230	FND0047820032	23	410.0	9,430	75	83	79	29	35	DKK810710	200	0.931	0.39	2.4	10	278.6	3527	266.4	3372	556	621	66	64	156	12/14/2019
231	FND0047820033	23	410.0	9,430	74	86	79	38	30	DKK810710	200	0.931	0.39	2.4	10	278.6	3527	266.4	3372	556	621	66	64	156	12/14/2019
232	FND0047820034	23	410.0	9,430	73	81	78	27	37	DKK810710	198	0.936	0.39	2.3	10	275.1	3527	263	3372	556	621	66	64	156	12/14/2019
233	FND0047820035	23	410.0	9,430	75	85	78	35	32	DKK810710	198	0.936	0.39	2.3	10	275.1	3527	263	3372	556	621	66	64	156	12/14/2019
234	FND0047820036	23	410.0	9,430	74	80	77	26	29	DKK810710	198	0.932	0.39	2.2	10	279.8	3634	283.2	3678	561	640	67	64	159	12/14/2019
235	FND0047820037	23	410.0	9,430	73	82	76	28	30	DKK810710	198	0.932	0.39	2.2	10	276.2	3634	279.5	3678	561	640	67	64	159	12/14/2019
236	FND0047820038	23	410.0	9,430	72	81	76	29	29	DKK810710	198	0.932	0.39	2.2	10	276.2	3634	279.5	3678	561	640	67	64	159	12/14/2019
237	FND0047820039	23	410.0	9,430	72	79	76	34	31	DKK810710	198	0.932	0.39	2.4	10	276.2	3634	279.5	3678	561	640	67	64	159	12/14/2019
238	FND0047820040	23	410.0	9,430	76	86	79	29	29	DKK810710	198	0.932	0.39	2.4	10	287.1	3634	290.6	3678	561	640	67	64	159	12/15/2019
239	FND0047820041	23	410.0	9,430	76	83	78	27	32	DKK810710	198	0.935	0.39	2.2	10	283.4	3633	286.7	3675	572	629	77	77	155	12/15/2019
240	FND0047820042	23	410.0	9,430	76	85	78	28	30	DKK810710	198	0.935	0.39	2.2	10	283.4	3633	286.7	3675	572	629	77	77	155	12/15/2019

agru america
quality control dept.

Maria Coffey-Manager
Quality Control Department

Newmont Mining
Cripple Creek & Victor Gold Mining Co
1632 County Road 82
Cripple Creek, CO 80813

SO#: **00005731**
Liner Type: **80LL micro**
Item: **FG-LDMSDS080BBBEG**
Current # of Rolls: **315**
Roll Count: **1-315 (all)**
Report Date: 10/13/2020 **ENGLISH**

					ASTM D5994 (Modified)			ASTM D7466			ASTM D3895	ASTM D792	ASTM D1238	ASTM D4218	ASTM D5596	ASTM D6693						ASTM D1004		ASTM D4833	
Count	Roll #	(English)			Thickness (English)			Asperity (Top)	Asperity (Bottom)	Lot #	OIT (Standard)	Specific Gravity	Melt Flow Index	Carbon Black Content	Carbon Black Disp.	Tensile Str. @Break (MD)		Tensile Str. @Break (TD)		Elong. @Break (MD)	Elong. @Break (TD)	Tear Resistance (MD)	Tear Resistance (TD)	Puncture Resistance	Production Date
		Width	Length	Area	Min.	Max.	Ave.																		
		ft.	ft.	ft².	mils	mils	mils	mils	mils		min	g/cc	g/10 min.	%	(# in Cat. 1)	ppi	psi	ppi	psi	%	%	lbs.	lbs.	lbs.	
Minimum Results (ea. Col.)					70	78	76	23	27		147	0.931	0.34	2.1	10	226.3	2939	249.3	3263	480	601	60	56	146	
241	FND0047820043	23	410.0	9,430	74	84	79	27	30	DKK810710	198	0.935	0.39	2.2	10	287	3633	290.3	3675	572	629	77	77	155	12/15/2019
242	FND0047820044	23	410.0	9,430	77	87	80	35	31	DKK810710	198	0.935	0.39	2.5	10	290.6	3633	294	3675	572	629	77	77	155	12/15/2019
243	FND0047820045	23	410.0	9,430	74	86	80	31	28	DKK810710	198	0.935	0.39	2.5	10	290.6	3633	294	3675	572	629	77	77	155	12/15/2019
244	FND0047820046	23	410.0	9,430	76	83	79	28	33	DKK810710	198	0.932	0.39	2.5	10	285.7	3616	310.6	3932	568	665	68	67	159	12/15/2019
245	FND0047820047	23	410.0	9,430	77	85	79	28	31	DKK810710	198	0.932	0.39	2.5	10	285.7	3616	310.6	3932	568	665	68	67	159	12/15/2019
246	FND0047820048	23	410.0	9,430	74	85	78	26	30	DKK810710	198	0.932	0.39	2.5	10	282	3616	306.7	3932	568	665	68	67	159	12/15/2019
247	FND0047820049	23	410.0	9,430	75	86	80	31	29	DKK810710	198	0.932	0.39	2.3	10	289.3	3616	314.6	3932	568	665	68	67	159	12/15/2019
248	FND0047820050	23	410.0	9,430	77	84	79	29	32	DKK810710	198	0.932	0.39	2.3	10	285.7	3616	310.6	3932	568	665	68	67	159	12/15/2019
249	FND0047820051	23	410.0	9,430	74	84	78	28	32	DKK810710	198	0.933	0.39	2.2	10	276.1	3540	273	3500	560	626	67	69	160	12/15/2019
250	FND0047820052	23	410.0	9,430	74	85	78	26	30	DKK810710	198	0.933	0.39	2.2	10	276.1	3540	273	3500	560	626	67	69	160	12/15/2019
251	FND0047820053	23	410.0	9,430	75	87	79	29	29	DKK810710	198	0.933	0.39	2.2	10	279.7	3540	276.5	3500	560	626	67	69	160	12/15/2019
252	FND0047820054	23	410.0	9,430	77	86	79	28	28	DKK810710	198	0.933	0.39	2.2	10	279.7	3540	276.5	3500	560	626	67	69	160	12/15/2019
253	FND0047820055	23	410.0	9,430	74	86	78	28	29	DKK810710	198	0.933	0.39	2.2	10	276.1	3540	273	3500	560	626	67	69	160	12/16/2019
254	FND0047820056	23	410.0	9,430	75	86	79	28	32	DKK810710	198	0.933	0.39	2.3	10	289.9	3669	307.2	3889	564	662	73	69	158	12/16/2019
255	FND0047820057	23	410.0	9,430	75	84	78	30	29	DKK810710	198	0.933	0.39	2.3	10	286.2	3669	303.3	3889	564	662	73	69	158	12/16/2019
256	FND0047820058	23	410.0	9,430	76	85	79	29	30	DKJ810710	147	0.933	0.34	2.3	10	289.9	3669	307.2	3889	564	662	73	69	158	12/16/2019
257	FND0047820059	23	410.0	9,430	75	85	79	28	30	DKJ810710	147	0.933	0.34	2.2	10	289.9	3669	307.2	3889	564	662	73	69	158	12/16/2019
258	FND0047820060	23	410.0	9,430	79	86	81	32	38	DKJ810710	147	0.933	0.34	2.2	10	297.2	3669	315	3889	564	662	73	69	158	12/16/2019
259	FND0047820061	23	410.0	9,430	78	82	80	28	31	DKJ810710	147	0.932	0.34	2.4	10	319	3987	331.9	4149	571	647	70	70	158	12/16/2019
260	FND0047820062	23	410.0	9,430	76	85	80	28	33	DKJ810710	147	0.932	0.34	2.4	10	319	3987	331.9	4149	571	647	70	70	158	12/16/2019
261	FND0047820063	23	410.0	9,430	76	86	80	28	33	DKJ810710	147	0.932	0.34	2.4	10	319	3987	331.9	4149	571	647	70	70	158	12/16/2019
262	FND0047820064	23	410.0	9,430	74	81	78	30	31	DKJ810710	147	0.932	0.34	2.4	10	311	3987	323.6	4149	571	647	70	70	158	12/16/2019
263	FND0047820065	23	410.0	9,430	74	83	79	26	32	DKJ810710	147	0.932	0.34	2.4	10	315	3987	327.8	4149	571	647	70	70	158	12/16/2019
264	FND0047820066	23	410.0	9,430	74	80	77	28	30	DKJ810710	147	0.934	0.34	2.2	10	270.4	3512	279.9	3635	561	649	64	63	155	12/16/2019

agru america
quality control dept.

Maria Coffey-Manager
Quality Control Department

Newmont Mining
Cripple Creek & Victor Gold Mining Co
1632 County Road 82
Cripple Creek, CO 80813

SO#: **00005731**
Liner Type: **80LL micro**
Item: **FG-LDMSDS080BBBEG**
Current # of Rolls: **315**
Roll Count: **1-315 (all)**
Report Date: 10/13/2020 **ENGLISH**

					ASTM D5994 (Modified)			ASTM D7466			ASTM D3895	ASTM D792	ASTM D1238	ASTM D4218	ASTM D5596	ASTM D6693						ASTM D1004		ASTM D4833	
Count	Roll #	(English)			Thickness (English)			Asperity (Top)	Asperity (Bottom)	Lot #	OIT (Standard)	Specific Gravity	Melt Flow Index	Carbon Black Content	Carbon Black Disp.	Tensile Str. @Break (MD)		Tensile Str. @Break (TD)		Elong. @Break (MD)	Elong. @Break (TD)	Tear Resistance (MD)	Tear Resistance (TD)	Puncture Resistance	Production Date
		Width	Length	Area	Min.	Max.	Ave.																		
		ft.	ft.	ft².	mils	mils	mils	mils	mils		min	g/cc	g/10 min.	%	(# in Cat. 1)	ppi	psi	ppi	psi	%	%	lbs.	lbs.	lbs.	
Minimum Results (ea. Col.)					70	78	76	23	27		147	0.931	0.34	2.1	10	226.3	2939	249.3	3263	480	601	60	56	146	
265	FND0047820067	23	410.0	9,430	72	82	78	27	32	DKJ810710	147	0.934	0.34	2.2	10	273.9	3512	283.5	3635	561	649	64	63	155	12/16/2019
266	FND0047820068	23	410.0	9,430	74	84	78	28	30	DKJ810710	147	0.934	0.34	2.2	10	273.9	3512	283.5	3635	561	649	64	63	155	12/16/2019
267	FND0047820069	23	410.0	9,430	73	82	78	28	30	DKJ810710	147	0.934	0.34	2.2	10	273.9	3512	283.5	3635	561	649	64	63	155	12/16/2019
268	FND0047820070	23	410.0	9,430	72	82	79	28	29	DKJ810710	147	0.934	0.34	2.2	10	277.4	3512	287.2	3635	561	649	64	63	155	12/16/2019
269	FND0047820071	23	410.0	9,430	72	82	79	27	30	DKJ810710	147	0.934	0.34	2.2	10	265.5	3361	269.8	3415	560	619	69	71	155	12/17/2019
270	FND0047820072	23	410.0	9,430	73	82	79	27	32	DKJ810710	147	0.934	0.34	2.2	10	265.5	3361	269.8	3415	560	619	69	71	155	12/17/2019
271	FND0047820073	23	410.0	9,430	75	82	79	28	27	DKJ810710	147	0.934	0.34	2.2	10	265.5	3361	269.8	3415	560	619	69	71	155	12/17/2019
272	FND0047820074	23	410.0	9,430	76	82	79	27	30	DKJ810710	147	0.934	0.34	2.3	10	265.5	3361	269.8	3415	560	619	69	71	155	12/17/2019
273	FND0047820075	23	410.0	9,430	76	82	79	25	30	DKJ810710	147	0.934	0.34	2.3	10	265.5	3361	269.8	3415	560	619	69	71	155	12/17/2019
274	FND0047820076	23	410.0	9,430	75	86	80	26	30	DKJ810710	147	0.933	0.34	2.3	10	283.8	3547	308.6	3857	544	632	77	75	160	12/17/2019
275	FNB0048240005	23	410.0	9,430	75	82	79	24	33	DKJ810710	147	0.933	0.34	2.5	10	248.9	3150	266.3	3371	505	602	68	67	154	12/17/2019
276	FNB0048240006	23	410.0	9,430	75	82	79	26	34	DKJ810710	147	0.933	0.34	2.5	10	248.9	3150	266.3	3371	505	602	68	67	154	12/17/2019
277	FNB0048240007	23	410.0	9,430	75	81	79	26	35	DKJ810710	147	0.933	0.34	2.5	10	248.9	3150	266.3	3371	505	602	68	67	154	12/17/2019
278	FNB0048240008	23	410.0	9,430	77	83	79	25	34	DKJ810710	147	0.933	0.34	2.4	10	248.9	3150	266.3	3371	505	602	68	67	154	12/17/2019
279	FNB0048240009	23	410.0	9,430	72	83	79	24	35	DKJ810710	147	0.933	0.34	2.4	10	248.9	3150	266.3	3371	505	602	68	67	154	12/17/2019
280	FNB0048240010	23	410.0	9,430	73	81	78	28	35	DKJ810710	147	0.934	0.34	2.3	10	276.7	3548	297.8	3818	545	654	73	75	154	12/17/2019
281	FNB0048240011	23	410.0	9,430	76	84	79	28	33	DKJ810710	147	0.934	0.34	2.3	10	280.3	3548	301.6	3818	545	654	73	75	154	12/17/2019
282	FNB0048240012	23	410.0	9,430	77	83	79	28	31	DKJ810710	147	0.934	0.34	2.3	10	280.3	3548	301.6	3818	545	654	73	75	154	12/17/2019
283	FNB0048240013	23	410.0	9,430	77	84	79	27	31	DKJ810710	147	0.934	0.34	2.4	10	280.3	3548	301.6	3818	545	654	73	75	154	12/17/2019
284	FNB0048240014	23	410.0	9,430	76	81	78	28	31	DKJ810710	147	0.934	0.34	2.4	10	276.7	3548	297.8	3818	545	654	73	75	154	12/18/2019
285	FNB0048240015	23	410.0	9,430	78	81	79	27	32	DKJ810710	147	0.934	0.34	2.5	10	267.7	3389	287.7	3642	525	623	66	65	154	12/18/2019
286	FNB0048240016	23	410.0	9,430	75	81	79	26	33	DKJ810710	147	0.934	0.34	2.5	10	267.7	3389	287.7	3642	525	623	66	65	154	12/18/2019
287	FNB0048240017	23	410.0	9,430	75	83	77	29	34	DKJ810710	147	0.934	0.34	2.5	10	261	3389	280.4	3642	525	623	66	65	154	12/18/2019
288	FNB0048240019	23	410.0	9,430	76	82	78	28	34	DKJ810710	147	0.934	0.34	2.3	10	264.3	3389	284.1	3642	525	623	66	65	154	12/18/2019

agru america quality control dept.

Maria Coffey-Manager
Quality Control Department

Newmont Mining
Cripple Creek & Victor Gold Mining Co
1632 County Road 82
Cripple Creek, CO 80813

SO#: **00005731**
Liner Type: **80LL micro**
Item: **FG-LDMSDS080BBBEG**
Current # of Rolls: **315**
Roll Count: **1-315 (all)**
Report Date: 10/13/2020 **ENGLISH**

Count	Roll #	(English)			Thickness (English)			Asperity (Top)	Asperity (Bottom)	Lot #	OIT (Standard)	Specific Gravity	Melt Flow Index	Carbon Black Content	Carbon Black Disp.	Tensile Str. @Break (MD)		Tensile Str. @Break (TD)		Elong. @Break (MD)	Elong. @Break (TD)	Tear Resistance (MD)	Tear Resistance (TD)	Puncture Resistance	Production Date
		Width	Length	Area	Min.	Max.	Ave.																		
		ft.	ft.	ft².	mils	mils	mils	mils	mils		min	g/cc	g/10 min.	%	(# in Cat. 1)	ppi	psi	ppi	psi	%	%	lbs.	lbs.	lbs.	
Minimum Results (ea. Col.)					70	78	76	23	27		147	0.931	0.34	2.1	10	226.3	2939	249.3	3263	480	601	60	56	146	
289	FND0047820077	23	410.0	9,430	75	82	78	25	28	DKJ810710	147	0.933	0.34	2.3	10	276.7	3547	300.8	3857	544	632	77	75	160	12/17/2019
290	FND0047820078	23	410.0	9,430	75	82	78	25	28	DKJ810710	147	0.933	0.34	2.3	10	276.7	3547	300.8	3857	544	632	77	75	160	12/17/2019
291	FND0047820079	23	410.0	9,430	74	80	78	26	30	DKJ810710	147	0.933	0.34	2.3	10	276.7	3547	300.8	3857	544	632	77	75	160	12/17/2019
292	FND0047820080	23	410.0	9,430	75	81	78	26	30	DKJ810710	147	0.933	0.34	2.3	10	276.7	3547	300.8	3857	544	632	77	75	160	12/17/2019
293	FND0047820081	23	410.0	9,430	76	83	79	25	31	DKJ810710	147	0.932	0.34	2.1	10	286.6	3628	281.2	3560	552	618	72	72	158	12/17/2019
294	FND0047820082	23	410.0	9,430	77	81	79	30	30	DKJ810710	147	0.932	0.34	2.1	10	286.6	3628	281.2	3560	552	618	72	72	158	12/17/2019
295	FND0047820083	23	410.0	9,430	77	84	80	29	29	DKJ810710	147	0.932	0.34	2.1	10	290.2	3628	284.8	3560	552	618	72	72	158	12/17/2019
296	FND0047820084	23	410.0	9,430	74	83	79	28	32	DKJ810710	147	0.932	0.34	2.3	10	286.6	3628	281.2	3560	552	618	72	72	158	12/17/2019
297	FND0047820085	23	410.0	9,430	74	82	78	28	31	DKJ810710	147	0.932	0.34	2.3	10	283	3628	277.7	3560	552	618	72	72	158	12/17/2019
298	FNB0048240019	23	410.0	9,430	75	82	78	28	35	DKJ810710	147	0.934	0.34	2.3	10	264.3	3389	284.1	3642	525	623	66	65	154	12/18/2019
299	FNB0048240020	23	410.0	9,430	75	82	79	28	34	DKJ810710	147	0.933	0.34	2.5	10	236.9	2999	261.2	3306	513	612	68	64	157	12/18/2019
300	FNB0048240021	23	410.0	9,430	74	83	79	28	34	DKJ810710	147	0.933	0.34	2.5	10	236.9	2999	261.2	3306	513	612	68	64	157	12/18/2019
301	FNB0048240022	23	410.0	9,430	73	82	77	24	34	DKJ810710	147	0.933	0.34	2.5	10	230.9	2999	254.6	3306	513	612	68	64	157	12/18/2019
302	FNB0048240023	23	410.0	9,430	74	81	79	26	36	DKJ810710	147	0.933	0.34	2.3	10	236.9	2999	261.2	3306	513	612	68	64	157	12/18/2019
303	FNB0048240024	23	410.0	9,430	75	81	77	27	35	DKJ810710	147	0.933	0.34	2.3	10	230.9	2999	254.6	3306	513	612	68	64	157	12/18/2019
304	FNB0048240025	23	410.0	9,430	71	82	78	27	35	DKJ810710	147	0.934	0.34	2.5	10	233.5	2994	258.3	3312	519	613	66	64	152	12/18/2019
305	FNB0048240026	23	410.0	9,430	77	84	81	28	35	DKJ810710	147	0.934	0.34	2.5	10	242.5	2994	268.3	3312	519	613	66	64	152	12/18/2019
306	FNB0048240027	23	410.0	9,430	78	85	80	28	35	DKJ810710	147	0.934	0.34	2.5	10	239.5	2994	265	3312	519	613	66	64	152	12/18/2019
307	FNB0048240028	23	410.0	9,430	77	86	81	26	34	DKJ810710	147	0.934	0.34	2.3	10	242.5	2994	268.3	3312	519	613	66	64	152	12/18/2019
308	FNB0048240029	23	410.0	9,430	77	83	79	27	33	DKJ810710	147	0.934	0.34	2.3	10	236.5	2994	261.6	3312	519	613	66	64	152	12/18/2019
309	FNB0048240030	23	410.0	9,430	77	83	79	28	33	DKJ810710	147	0.934	0.34	2.3	10	261.8	3314	283.2	3585	520	601	63	63	155	12/18/2019
310	FNB0048240031	23	410.0	9,430	78	84	80	28	32	DKJ810710	147	0.934	0.34	2.3	10	265.1	3314	286.8	3585	520	601	63	63	155	12/18/2019
311	FNB0048240032	23	410.0	9,430	76	85	79	28	34	DKJ810710	147	0.934	0.34	2.3	10	261.8	3314	283.2	3585	520	601	63	63	155	12/18/2019
312	FNB0048240033	23	410.0	9,430	76	83	79	29	34	DKJ810710	147	0.934	0.34	2.4	10	261.8	3314	283.2	3585	520	601	63	63	155	12/19/2019
313	FNB0048240034	23	410.0	9,430	77	82	79	28	34	DKJ810710	147	0.934	0.34	2.4	10	261.8	3314	283.2	3585	520	601	63	63	155	12/19/2019
314	FNB0048240035	23	410.0	9,430	76	81	78	28	34	DKJ810710	147	0.934	0.34	2.6	10	260.5	3340	268.9	3447	527	618	66	67	156	12/19/2019

agru america quality control dept.

Maria Coffey-Manager
Quality Control Department

Newmont Mining
Cripple Creek & Victor Gold Mining Co
1632 County Road 82
Cripple Creek, CO 80813

SO#: **00005731**
Liner Type: **80LL micro**
Item: **FG-LDMSDS080BBBEG**
Current # of Rolls: **315**
Roll Count: **1-315 (all)**
Report Date: 10/13/2020 **ENGLISH**

					ASTM D5994 (Modified)			ASTM D7466			ASTM D3895	ASTM D792	ASTM D1238	ASTM D4218	ASTM D5596	ASTM D6693						ASTM D1004		ASTM D4833	
Count	Roll #	(English)			Thickness (English)			Asperity (Top)	Asperity (Bottom)	Lot #	OIT (Standard)	Specific Gravity	Melt Flow Index	Carbon Black Content	Carbon Black Disp.	Tensile Str. @Break (MD)		Tensile Str. @Break (TD)		Elong. @Break (MD)	Elong. @Break (TD)	Tear Resistance (MD)	Tear Resistance (TD)	Puncture Resistance	Production Date
		Width	Length	Area	Min.	Max.	Ave.																		
		ft.	ft.	ft².	mils	mils	mils	mils	mils		min	g/cc	g/10 min.	%	(# in Cat. 1)	ppi	psi	ppi	psi	%	%	lbs.	lbs.	lbs.	
	Minimum Results (ea. Col.)				70	78	76	23	27		147	0.931	0.34	2.1	10	226.3	2939	249.3	3263	480	601	60	56	146	
315	FNB0048240036	23	410.0	9,430	75	81	78	28	34	DKJ810710	147	0.934	0.34	2.6	10	260.5	3340	268.9	3447	527	618	66	67	156	12/19/2019

APPENDIX I.4 – 80MIL LLDPE GEOMEMBRANE RESIN QC CERTIFICATES

CoA Date: 09/19/2019

Certificate of Analysis

Shipped To: AGRU AMERICA INC:FERNLEY
2000 EAST NEWLANDS
FERNLEY NV 89408
USA

Recipient: PALMER
Fax:

Delivery #: 80045156
PO #: 16557
Weight: 187300.000 LB
Ship Date: 09/19/2019
Package: BULK
Mode: Hopper Car
Car #: CPCX816538
Seal No: 189042

Product:
MARLEX 7104 POLYETHYLENE in Bulk

Lot Number: DKJ810770

Property	Test Method	Value	Unit
Melt Index	ASTM D1238	0.34	g/10min
HLMI	ASTM D1238	12.70	g/10min
Pellet Count	ST-905	34	pelet/gram
Production date		20190912	
Density	D1505	0.919	g/cm3

The data set forth herein have been carefully compiled by Chevron Phillips Chemical Company LP (CPChem).
However, there is no warranty of any kind, either expressed or implied, applicable to its use, and the user assumes all risk and liability in connection therewith.

T. KEVIN AYRES
QUALITY ASSURANCE SUPERINTENDENT

For CoA questions contact Shannon Blacknall at +1-832-813-4807

CoA Date: 10/31/2019

Certificate of Analysis

Shipped To: AGRU AMERICA INC:FERNLEY
2000 EAST NEWLANDS
FERNLEY NV 89408
USA

Recipient: PALMER
Fax:

Delivery #: 80071664
PO #: 16662
Weight: 187500.000 LB
Ship Date: 10/31/2019
Package: BULK
Mode: Hopper Car
Car #: CHVX896718
Seal No: 126126

Product:
MARLEX 7104 POLYETHYLENE in Bulk

Lot Number: DKK810700

Property	Test Method	Value	Unit
Melt Index	ASTM D1238	0.37	g/10min
HLMI	ASTM D1238	15.12	g/10min
Pellet Count	ST-905	32	pelet/gram
Production date		20191011	
Density	D1505	0.920	g/cm3

The data set forth herein have been carefully compiled by Chevron Phillips Chemical Company LP (CPChem).
However, there is no warranty of any kind, either expressed or implied, applicable to its use, and the user assumes all risk and liability in connection therewith.

T. KEVIN AYRES
QUALITY ASSURANCE SUPERINTENDENT

For CoA questions contact Shannon Blacknall at +1-832-813-4807

CoA Date: 10/01/2019

Certificate of Analysis

Shipped To: AGRU AMERICA INC:FERNLEY
2000 EAST NEWLANDS
FERNLEY NV 89408
USA

Recipient: PALMER
Fax:

Delivery #: 80052424
PO #: 16557
Weight: 188000.000 LB
Ship Date: 10/01/2019
Package: BULK
Mode: Hopper Car
Car #: SHPX464215
Seal No: 189475

Product:
MARLEX 7104 POLYETHYLENE in Bulk

Lot Number: DKJ810710

Property	Test Method	Value	Unit
Melt Index	ASTM D1238	0.36	g/10min
HLMI	ASTM D1238	13.83	g/10min
Pellet Count	ST-905	32	pelet/gram
Production date		20190911	
Density	D1505	0.919	g/cm3

The data set forth herein have been carefully compiled by Chevron Phillips Chemical Company LP (CPChem).
However, there is no warranty of any kind, either expressed or implied, applicable to its use, and the user assumes all risk and liability in connection therewith.

T. KEVIN AYRES
QUALITY ASSURANCE SUPERINTENDENT

For CoA questions contact Shannon Blacknall at +1-832-813-4807

CoA Date: 10/31/2019

Certificate of Analysis

Shipped To: AGRU AMERICA INC:FERNLEY
2000 EAST NEWLANDS
FERNLEY NV 89408
USA

Recipient: PALMER
Fax:

Delivery #: 80071665
PO #: 16662
Weight: 187150.000 LB
Ship Date: 10/31/2019
Package: BULK
Mode: Hopper Car
Car #: PSPX007047
Seal No: 126129

Product:
MARLEX 7104 POLYETHYLENE in Bulk

Lot Number: DKK810710

Property	Test Method	Value	Unit
Melt Index	ASTM D1238	0.39	g/10min
HLMI	ASTM D1238	16.04	g/10min
Pellet Count	ST-905	33	pelet/gram
Production date		20191011	
Density	D1505	0.920	g/cm3

The data set forth herein have been carefully compiled by Chevron Phillips Chemical Company LP (CPChem).
However, there is no warranty of any kind, either expressed or implied, applicable to its use, and the user assumes all risk and liability in connection therewith.

T. KEVIN AYRES
QUALITY ASSURANCE SUPERINTENDENT

For CoA questions contact Shannon Blacknall at +1-832-813-4807

Vergil H. Rhodes, PE, CPlasT - Tech Svc & App Dev Engineer, Geomembranes
Highways 60 & 123, Bartlesville Research and Technology Center, Room 103 PTC
Bartlesville, OK 74003
■ 918-977-4229 ■ rhodevh@cpchem.com ■ Fax: 918-977-7599 ■ www.cpchem.com

October 31, 2017
Filename: Agru Oven and QUV Exposure Testing_103117.pdf

Nathan Ivy - Corporate Quality Control/Technical Manager
Agru America, Inc.
800 Rockmead #122
Kingwood, TX 77339
281-358-4741

Dear Mr. Ivy:

Please recall your request for testing of oven-exposed and UV-exposed geomembrane samples produced primarily from Marlex® 7104 LLDPE and Marlex® K307 HDPE. Agru blended other components with each of these polyethylenes to produce the geomembrane samples for testing. Smooth geomembrane samples have been received from Agru and test results are reported below. The samples were tested for HP-OIT in their as-received condition, and were also tested after oven and UV exposures of 90 days and 1600 hours of irradiance, respectively, in accordance with GRI-GM13 and GRI-GM17.
The following geomembrane sheet samples were received from Agru in mid-June 2017 and were reported to be primarily composed of each of the Chevron Phillips Chemical Company grades in the description below:

- K307 Lot #HHB620720, Agru Roll #G17D000534, black sheet, smooth, nominal 0.040" thick.
- 7104 Lot #CFJ810540, Agru Roll #G15B434055, black sheet, smooth, nominal 0.040" thick.

Exposure and testing conditions, along with the test results are tabulated on the next page. GM-13 and GM-17 require minimum % HP-OIT retention after a 90-day oven exposure and after a 1600 hour UV irradiance exposure. These test results indicate these GM-13 and GM-17 minimum % HP-OIT retentions were exceeded by these Agru-supplied K307 and 7104 sheet samples, respectively.

If you have any questions, please feel free to contact me (contact information given above).

Sincerely,

Vergil Rhodes
Polyethylene Technical Service and Applications Development, Geomembrane

NOTICES
Technical Information - By using any Technical Information contained herein, Recipient agrees that said Technical Information is given by CPChem for convenience only, without any warranty or guarantee of any kind, and is accepted and used at your sole risk. Recipients are encouraged to verify independently any such information to their reasonable satisfaction. As used in this paragraph, "Technical Information" includes any technical advice, recommendations, testing, or analysis, including, without limitation, information as it may relate to the selection of a product for a specific use and application.

The following oven aging and UV exposure test methods were conducted in accordance with the GRI-GM13 (HDPE) and GRI-GM17 (LLDPE) requirements:

Test Name	**Exposure Conditions**	**Test Method**
Oven Aging	90 days in an oven at 85 °C	ASTM D5721
UV Exposure	1600 UV irradiance hours. Cycle: 20 hours UVA-340 at 75 °C followed by 4 hours dark with condensation at 60 °C. Irradiance was 0.78 W/m^2 at wavelength 340 nm. Note: This implies a total UV chamber residence time of 1920 hours, e.g., 1600 hours of irradiance and 320 hours of dark/condensation.	ASTM D7238
HP-OIT	150 °C in an oxygen atmosphere at 500 psi	ASTM D5885

Oven Aging Results:

Sample	Initial HP-OIT (min)	HP-OIT after 90 days of oven aging. (min)	% HP-OIT Retained after 90 days of oven aging.	GRI-GM13 and GRI-GM17 minimum % HP-OIT retained after 90 days of oven aging.
K307 Lot #HHB620720, Agru Roll #G17D000534, black sheet, smooth, nominal 0.040" thick	1264	1123	89	GRI-GM13: 80 minimum
7104 Lot #CFJ810540, Agru Roll #G15B434055, black sheet, smooth, nominal 0.040" thick	550	508	92	GRI-GM17: 60 minimum

UV Aging Results:

Sample	Initial HP-OIT (min)	HP-OIT after 1600 hrs of UV exposure. (min)	% HP-OIT Retained after 1600 hrs of UV exposure.	GRI-GM13 and GRI-GM17 minimum % HP-OIT retained after 1600 hrs of UV exposure.
K307 Lot #HHB620720, Agru Roll #G17D000534, black sheet, smooth, nominal 0.040" thick	1264	1024	81	GRI-GM13: 50 minimum
7104 Lot #CFJ810540, Agru Roll #G15B434055, black sheet, smooth, nominal 0.040" thick	550	470	85	GRI-GM17: 35 minimum

Note: 1600 hours of UV exposure in accordance with ASTM D7238 implies a total UV chamber residence time of 1920 hours, e.g., 1600 hours of irradiance and 320 hours of darkness with condensation.

NOTICES
Technical Information - By using any Technical Information contained herein, Recipient agrees that said Technical Information is given by CPChem for convenience only, without any warranty or guarantee of any kind, and is accepted and used at your sole risk. Recipients are encouraged to verify independently any such information to their reasonable satisfaction. As used in this paragraph, "Technical Information" includes any technical advice, recommendations, testing, or analysis, including, without limitation, information as it may relate to the selection of a product for a specific use and application.

January 29, 2014

Mail To:

Grant Palmer
Agru America
500 Garrison Road
Georgetown, SC 29440

email: gp@AgruAmerica.com

Bill To:

<= Same

Dear Mr. Palmer:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs.
TRI is pleased to submit this final report of the laboratory testing for the sample(s) listed below.

TRI Job Reference Number:	E2386-59-09
Material(s) Tested:	One Agru 80 mil Microspike LLDPE Geomembrane(s)
Test(s) Requested:	2% Secant (ASTM D5323 via ASTM D638, GM17) Multi-axial Tensile (ASTM D 5617)

If you have any questions or require any additional information, please call us at 1-800-880-8378

Sincerely,

Mansukh Patel
Laboratory Manager
Geosynthetic Services Division
www.GeosyntheticTesting.com

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

GEOMEMBRANE TEST RESULTS
TRI Client: Agru America

Material: Agru 80 mil Microspike LLDPE Geomembrane
Sample Identification: G14D031009 , Chevron 7104 LLDPE Resin, Resin Lot # CDG810350
TRI Log #: E2386-59-09

PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	6	7	8	9	10	MEAN	STD. DEV.
2% Secant Modulus (ASTM D5323 via ASTM D638, GM17)												
MD 2% Secant Modulus (psi)	30887	30305	30617	32594	31327						**31146**	892
MD 2% Secant Modulus (ppi)	2662	2530	2596	2533	2444						**2553**	82
TD 2% Secant Modulus (psi)	35037	35745	35187	37057	34833						**35572**	897
TD 2% Secant Modulus (ppi)	2950	2760	3065	2827	2675						**2855**	154
Multi-axial Tensile (ASTM D 5617)												
Test Method A: Centerpoint Deflection Versus Pressure												
Thickness (mils)	81.0	78.0	79.0								**79.3**	1.5
Maximum Stress (psi)	1873	1781	1899								**1851**	62
% Elongation @ Rupture (%)	77.6	77.0	85.0								**79.9**	4.5
Failure Description	MDT N-EF	MDT N-EF	MDT N-EF									

MDT	A tear in the machine direction.
H	Circular or elliptical hole in the specimen.
H-CAT	Circular or elliptical hole in an area where the material has significantly necked down or thinned. The large thinned area resembles a pupil of a cat eye.
N-EF	No edge failure

MD Machine Direction TD Transverse Direction

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

TRI ENVIRONMENTAL, INC.
9063 BEE CAVES RD. – AUSTIN, TX 78733 – USA | PH: 800.880.TEST OR 512.263.2101

APPENDIX I.5 – WELDING ROD QUALITY CONTROL CERTIFICATES

agru america
quality control dept.

WELDING ROD CERTIFICATE OF CONFORMITY

Weld Rod (Black) Thickness: **5.00**

Prod. Run #: **FNWR10042410001**

Lot Number: **DKG810640**

Material: **7104** Resin: **LLDPE**

		Test Results
Carbon Black Content: ASTM D4218		**2.2** %
Melt Flow Index (Cond. E): ASTM D1238	190°C/2160g	**0.35** g/10 min.
Specific Gravity: ASTM D792/D1505	Average Density	**0.935** g/cc

Customer: **Cripple Creek & Victor Gold Mining Co**

Destination: **Newmont Mining**
1632 County Road 82
Cripple Creek, CO 80813

SO #: **00005731**

Signature:

Maria Coffey
Manager, Quality Control Department

Production Date: **10/1/2019**

CoA Date: 08/30/2019

Certificate of Analysis

Shipped To: AGRU AMERICA INC:FERNLEY
2000 EAST NEWLANDS
FERNLEY NV 89408
USA

Recipient: PALMER
Fax:

Delivery #: 80032944
PO #: 16453
Weight: 187600.000 LB
Ship Date: 08/30/2019
Package: BULK
Mode: Hopper Car
Car #: NAHX610300
Seal No: 158633

Product:
MARLEX 7104 POLYETHYLENE in Bulk

Lot Number: DKG810640

Property	Test Method	Value	Unit
Melt Index	ASTM D1238	0.35	g/10min
HLMI	ASTM D1238	14.25	g/10min
Pellet Count	ST-905	33	pelet/gram
Production date		20190712	
Density	D1505	0.919	g/cm3

The data set forth herein have been carefully compiled by Chevron Phillips Chemical Company LP (CPChem).
However, there is no warranty of any kind, either expressed or implied, applicable to its use, and the user assumes all risk and liability in connection therewith.

T. KEVIN AYRES
QUALITY ASSURANCE SUPERINTENDENT

For CoA questions contact Shannon Blacknall at +1-832-813-4807

APPENDIX I.6 – GEOTEXTILE ROLL QUALITY CONTROL CERTIFICATES

MANUFACTURER'S CERTIFICATE OF COMPLIANCE FOR MATERIALS FURNISHED FOR **NEWMONT-CRIPPLE CREEK & VICTOR GOLD MINE** PROJECT

ROJECT NUMBER: **475.0106.006**

LOCATION: VICTOR, CO

CONTRACTOR: TEZAK HEAVY EQUIPTMENT CO., INC.

MANUFACTURER: SKAPS INDUSTRIES; 335 ATHENA DRIVE, ATHENS, GA 30601

TYPE OF MATERIAL: GE-112 NON-WOVEN GEOTEXTILE - 15' X 402'; 670 SY

TEST PERFORMED: NA

DATE OF TEST: NA

LOTS REPRESENTED: NA

ANDREW SMITH

Triton Environmental, LLC

I hereby certify under penalty of perjury that the material listed in this Certificate of Compliance represents 4690 Sqyd (quantity and units) of pay item 2A-14 (pay item number and Description) that will be

installed on project number 475.0106.006.

Contractor 7/17/19 Date

Corporate: 5433 Newport St * Commerce City, CO 80022 * Phone 303-945-7588 * Fax 303-945-7579
Western Slope: 3017 Hwy 50 * Grand Junction, CO 81503 * 970-985-2984 * Fax 303-945-7589
East Coast: 4750 Steubenville Pike * Pittsburgh, PA 15205 * 412-458-0360 * Fax 412-458-0422

July 18, 2019

Mr. Andrew Smith
Triton Environmental
5433 Newport Street
Commerce City, CO 80022

VIA e-mail

Reference: SKAPS GE112

Dear Mr. Smith,

This letter is to confirm our earlier discussion regarding SKAPS GE112 nonwoven needle punched geotextile. The GE112 is manufactured in the SKAPS plant in Athens, GA, and is continuously inspected using permanent on-line full-width metal detectors and does not contain any needles which could damage other geosynthetic layers.

Very truly yours,

Engineered Synthetic Products, Inc.
Representing SKAPS Industries, Inc.

Gary Willibey. P.E.

GLW/abm

3985 Steve Reynolds Blvd., Bldg. H
Norcross, GA 30093
Tel: (770) 564-1857
Fax: (770) 564-1818
www.espgeosynthetics.com

SKAPS Industries (Nonwoven Division)
335, Athena Drive
Athens, GA 30601 (U.S.A.)
Phone (706) 354-3700 Fax (706) 354-3737
E-mail: contact@skaps.com

Sales Office:
Engineered Synthetic Product Inc.
Phone: (770)564-1857
Fax: (770)564-1818

July 18, 2019
Triton Environmental, LLC
5433 Newport St
Commerce City, CO, 80022
PO : 14336
BOL : 069220

Dear Sir/Madam:

This is to certify that SKAPS GE112 is a high quality needle-punched nonwoven geotextile made of 100% polypropylene staple fibers, randomly networked to form a high strength dimensionally stable fabric. SKAPS GE112 resists ultraviolet deterioration, rotting, biological degradation. The fabric is inert to commonly encountered soil chemicals. Polypropylene is stable within a pH range of 2 to 13. SKAPS GE112 conforms to the property values listed below:

PROPERTY	TEST METHOD	UNITS	M.A.R.V. Minimum Average Roll Value
Weight	ASTM D 5261	oz/sy (g/m^2)	12.00 (407)
Grab Tensile	ASTM D 4632	lbs (kN)	330 (1.47)
Grab Elongation	ASTM D 4632	%	50
Trapezoidal Tear	ASTM D 4533	lbs (kN)	125 (0.56)
CBR Puncture	ASTM D 6241	lbs (kN)	950 (4.23)
Permittivity*	ASTM D 4491	sec^{-1}	0.90
Water Flow*	ASTM D 4491	gpm/ft^2($l/min/m^2$)	70 (2852)
AOS*	ASTM D 4751	US Sieve (mm)	100 (0.15)
UV Resistance	ASTM D 4355	%/hrs	70/500

Notes:
* At the time of manufacturing. Handling may change these properties.

KOUROSH SABZEVARI
QUALITY CONTROL MANAGER

Product : GE112-180

ROLL #	WEIGHT	MD TENSILE	MD ELONG	XMD TENSILE	XMD ELONG	MD TRAP	XMD TRAP	CBR PUNCTURE	AOS	WATER FLOW	PERMITTIVITY
ASTM METHOD	D5261	D4632	D4632	D4632	D4632	D4533	D4533	D6241	D4751	D4491	D4491
UNITS	oz/sq yd	lbs.	%	lbs	%	lbs.	lbs	lbs.	US Sieve	gpm/ft2	sec-1
TARGET	12.00	330	50	330	50	125	125	950	100	70	0.90
030670741	12.70	413	78	376	110	244	274	1561	100	73	0.98
030670754	12.93	397	69	406	113	137	141	1165	100	73	0.98
030670759	12.93	397	69	406	113	137	141	1165	100	73	0.98
030670765	12.56	410	69	385	99	159	176	1019	100	73	0.98

* All values are MARV.

APPENDIX I.7 – GEOGRID ROLL QUALITY CONTROL CERTIFICATES

Tensar Corporation, LLC Quality Control Test Data
Product Type-Uniaxial Grid

10/11/2019 04:02 PM

Product Code:	UX180060	Bill of Lading:	TMP-832273
Customer Name:	NILEX USA	Sales Order:	TGS-402461
Project Name:	CRIPPLE CREEK MINE	Purchase Order:	11379

Finished Product QC Testing

QC Sample ID	Production Lot Number	Number of Rolls Shipped	Ultimate Tensile Strength (kN/m) ASTM D6637	Tensile @ 2 % Strain (kN/m) ASTM D6637	2% Tensile Modulus (kN/m) ASTM D6637	Tensile @ 5 % Strain (kN/m) ASTM D6637	Carbon Black (%) ASTM D4218	Junction Strength (kN/m) ASTM D7737
121472020	121472	4	232.6	59.7	2985.0	109.9	2.40	233.6
121473010	121473	4	221.9	56.0	2801.0	104.5	2.50	220.3
121475009	121475	4	228.3	62.4	3119.0	116.6	2.50	222.9
121476003	121476	4	215.6	60.2	3011.0	114.9	2.50	222.2
121477008	121477	19	213.3	57.2	2861.0	107.5	2.80	221.3
121478009	121478	40	236.9	62.9	3143.0	117.4	2.50	235.9

Note: ASTM D 6637 Method A supercedes GRI-GGI and ASTM D 4595 for geogrids
ASTM D 7737 supercedes GRI-GG2

1 kN/m = 68.54 lbs/ft



October 11, 2019

David Hall
Quality Assurance Laboratory Supervisor

Date

APPENDIX J – GEOMEMBRANE INSTALLATION SUMMARIES

APPENDIX J.1 – GEOMEMBRANE DEPLOYMENT SUMMARY

APPENDIX J.2 – GEOMEMBRANE TRIAL SEAM SUMMARIES

APPENDIX J.3 – GEOMEMBRANE FUSION WELDING SUMMARY

APPENDIX J.4 – GEOMEMBRANE EXTRUSION WELDING SUMMARY

APPENDIX J.5 – GEOMEMBRANE DESTRUCTIVE TESTING SUMMARIES

APPENDIX J.6 – GEOMEMBRANE PRESSURE TESTING SUMMARY

APPENDIX J.7 – GEOMEMBRANE DEFECT/REPAIR SUMMARY

APPENDIX J.8 – GEOMEMBRANE ACCEPTANCE FORMS

APPENDIX J.1 – GEOMEMBRANE DEPLOYMENT SUMMARY

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Panel Deployment Summary

Deployment Date	Panel Number	Roll Number	Ambient Temp. (°F)	Average Thickness (mm)	QA Monitor	Approximate Quantities			Surveyed Quantities		Remarks
						Length (ft)	Width (ft)	Area (ft²)	Area (ft²)	Cumulative Area (ft²)	
8/24/2020	P-3713	0047810119	65	80	TT	330	22.5	7,425	7,209	1,953,501	
8/24/2020	P-3714	0047810121	70	80	TT	324	22.5	7,290	7,368	1,960,869	
8/24/2020	P-3715	0047810159	72	80	TT	71	22.5	1,598	1,528	1,962,397	
8/24/2020	P-3716	0047810159	72	80	TT	203	22.5	4,568	4,543	1,966,940	
8/24/2020	P-3717	0047810120	72	80	TT	293	22.5	6,593	6,798	1,973,738	
8/24/2020	P-3718	0047810112	72	80	TT	312	22.5	7,020	6,889	1,980,627	
8/24/2020	P-3719	0047810113	75	80	TT	309	22.5	6,953	6,736	1,987,363	
8/24/2020	P-3720	0047810118	75	80	TT	305	22.5	6,863	6,711	1,994,074	
8/25/2020	P-3721	0047810116	70	80	TT	303	22.5	6,818	6,582	2,000,656	
8/26/2020	P-3722	0047810123	60	80	TT	297	22.5	6,683	6,547	2,007,203	
8/26/2020	P-3723	0047810122	60	80	TT	297	22.5	6,683	6,544	2,013,747	
8/26/2020	P-3724	0047810117	62	80	TT	296	22.5	6,660	6,464	2,020,211	
8/26/2020	P-3725	0047810111	65	80	TT	294	22.5	6,615	6,532	2,026,743	
8/26/2020	P-3726	0047810115	65	80	TT	294	22.5	6,615	6,535	2,033,278	
8/26/2020	P-3727	0047810084	65	80	TT	294	22.5	6,615	6,508	2,039,786	
8/26/2020	P-3728	0047810086	65	80	TT	292	22.5	6,570	6,374	2,046,160	
8/26/2020	P-3729	0047810114	70	80	TT	291	22.5	6,548	6,361	2,052,521	
8/26/2020	P-3730	0047810075	70	80	TT	289	22.5	6,503	6,320	2,058,841	
8/26/2020	P-3731	0047810083	70	80	TT	287	22.5	6,458	6,339	2,065,180	
8/26/2020	P-3732	0047810080	70	80	TT	286	22.5	6,435	6,168	2,071,348	
8/26/2020	P-3733	0047810085	72	80	TT	284	22.5	6,390	6,291	2,077,639	
8/27/2020	P-3734	0047810082	55	80	TT	282	22.5	6,345	6,248	2,083,887	
8/27/2020	P-3735	0047810078	60	80	TT	282	22.5	6,345	6,194	2,090,081	
8/27/2020	P-3736	0047810081	60	80	TT	280	22.5	6,300	6,097	2,096,178	
8/27/2020	P-3737	0047810110	60	80	TT	278	22.5	6,255	6,198	2,102,376	
8/27/2020	P-3738	0047810101	62	80	TT	278	22.5	6,255	6,121	2,108,497	
8/27/2020	P-3739	0047810109	65	80	TT	278	22.5	6,255	6,050	2,114,547	
8/27/2020	P-3740	0047810107	65	80	TT	278	22.5	6,255	6,109	2,120,656	
8/27/2020	P-3741	0047810105	68	80	TT	278	22.5	6,255	6,238	2,126,894	

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Panel Deployment Summary

Deployment Date	Panel Number	Roll Number	Ambient Temp. (°F)	Average Thickness (mm)	QA Monitor	Approximate Quantities			Surveyed Quantities		Remarks
						Length (ft)	Width (ft)	Area (ft²)	Area (ft²)	Cumulative Area (ft²)	
8/27/2020	P-3742	0047810099	70	80	TT	279	22.5	6,278	6,066	2,132,960	
8/27/2020	P-3743	0047810103	70	80	TT	281	22.5	6,323	6,129	2,139,089	
8/27/2020	P-3744	0047810102	70	80	TT	282	22.5	6,345	6,311	2,145,400	
8/28/2020	P-3745	0047810108	65	80	TT	284	22.5	6,390	6,278	2,151,678	
8/28/2020	P-3746	0047810100	65	80	TT	288	22.5	6,480	6,273	2,157,951	
8/28/2020	P-3747	0047801191	65	80	TT	294	22.5	6,615	6,463	2,164,414	
8/28/2020	P-3748	0047810096	65	80	TT	303	22.5	6,818	6,581	2,170,995	
8/28/2020	P-3749	0047810092	68	80	TT	317	22.5	7,133	6,922	2,177,917	
8/28/2020	P-3750	0047810094	70	80	TT	330	22.5	7,425	7,430	2,185,347	
8/28/2020	P-3751	0047810108	70	80	TT	106	22.5	2,385	2,293	2,187,640	
8/28/2020	P-3752	0047801191	70	80	TT	99	22.5	2,228	2,111	2,189,751	
8/28/2020	P-3753	0047810100	70	80	TT	99	22.5	2,228	2,209	2,191,960	
8/28/2020	P-3754	0047810104	70	80	TT	24	16	192	113	2,192,073	
8/28/2020	P-3755	0047810104	70	80	TT	280	22.5	6,300	6,040	2,198,113	
9/1/2020	P-3756	0047810104	45	80	TT	70	22.5	1,575	1,528	2,199,641	
9/1/2020	P-3757	0047810109	45	80	TT	114	22.5	2,565	2,505	2,202,146	
9/1/2020	P-3758	0047810103	45	80	TT	64	22.5	1,440	1,318	2,203,464	
9/1/2020	P-3759	0047810084	48	80	TT	96	22.5	2,160	2,066	2,205,530	
9/1/2020	P-3760	0047810094	48	80	TT	55	22.5	1,238	1,219	2,206,749	
9/1/2020	P-3761	0047810103	48	80	TT	62	22.5	1,395	1,250	2,207,999	
9/1/2020	P-3762	0047810118	48	80	TT	110	22.5	2,475	2,409	2,210,408	
9/1/2020	P-3763	0047810105	48	80	TT	64	22.5	1,440	1,300	2,211,708	
9/1/2020	P-3764	0047810096	50	80	TT	86	22.5	1,935	1,761	2,213,469	
9/1/2020	P-3765	0047810122	50	80	TT	51	22.5	1,148	1,030	2,214,499	
9/1/2020	P-3766	0047810101	50	80	TT	91	22.5	2,048	1,796	2,216,295	
9/1/2020	P-3767	0047810078	50	80	TT	37	22.5	833	778	2,217,073	
9/1/2020	P-3768	0047810078	50	80	TT	11	8	44	31	2,217,104	
9/1/2020	P-3769	0047810088	50	80	TT	364	22.5	8,190	8,025	2,225,129	
9/1/2020	P-3770	0047810090	50	80	TT	358	22.5	8,055	7,984	2,233,113	

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Panel Deployment Summary

Deployment Date	Panel Number	Roll Number	Ambient Temp. (°F)	Average Thickness (mm)	QA Monitor	Approximate Quantities			Surveyed Quantities		Remarks
						Length (ft)	Width (ft)	Area (ft²)	Area (ft²)	Cumulative Area (ft²)	
9/1/2020	P-3771	0047810099	52	80	TT	73	22.5	1,643	1,532	2,234,645	
9/1/2020	P-3772	0047810099	61	80	TT	36	14	252	239	2,234,884	
9/1/2020	P-3773	0047810107	61	80	TT	109	22.5	2,453	2,467	2,237,351	
9/1/2020	P-3774	0047810113	61	80	TT	77	22.5	1,733	1,708	2,239,059	
9/1/2020	P-3775	0047810110	61	80	TT	46	18	414	358	2,239,417	
9/1/2020	P-3776	0047810110	61	80	TT	67	22.5	1,508	1,445	2,240,862	
9/1/2020	P-3777	0047810121	61	80	TT	39	22.5	878	972	2,241,834	
9/1/2020	P-3778	0047810035	61	80	TT	232	22.5	5,220	5,286	2,247,120	
9/1/2020	P-3779	0047810035	61	80	TT	32	10	160	162	2,247,282	
9/1/2020	P-3780	0047810035	61	80	TT	145	22.5	3,263	3,135	2,250,417	
9/1/2020	P-3781	0047810102	61	80	TT	112	22.5	2,520	2,429	2,252,846	
9/1/2020	P-3782	0047810120	61	80	TT	50	22.5	1,125	1,087	2,253,933	
9/2/2020	P-3783	0047810089	55	80	TT	327	22.5	7,358	7328	2,261,261	
9/2/2020	P-3784	0047810089	55	80	TT	24	6	72	61	2,261,322	
9/2/2020	P-3785	0047810089	55	80	TT	41	22.5	923	1137	2,262,459	
9/2/2020	P-3786	0047810112	55	80	TT	63	18	567	469	2,262,928	
9/2/2020	P-3787	0047810034	58	80	TT	162	22.5	3,645	3570	2,266,498	
9/2/2020	P-3788	0047810034	58	80	TT	188	22.5	4,230	4131	2,270,629	
9/2/2020	P-3789	0047810080	58	80	TT	62	22.5	1,395	1346	2,271,975	
9/2/2020	P-3790	0047810030	60	80	TT	306	22.5	6,885	6960	2,278,935	
9/2/2020	P-3791	0047810030	60	80	TT	71	22.5	1,598	1557	2,280,492	
9/2/2020	P-3792	0047810086	60	80	TT	104	22.5	2,340	2267	2,282,759	
9/2/2020	P-3793	0047810159	60	80	TT	103	22.5	2,318	2417	2,285,176	
9/2/2020	P-3794	0047810119	60	80	TT	39	22.5	878	616	2,285,792	
9/2/2020	P-3795	0047810087	65	80	TT	316	22.5	7,110	6973	2,292,765	
9/2/2020	P-3796	0047810031	65	80	TT	322	22.5	7,245	6915	2,299,680	
9/2/2020	P-3797	0047810038	65	80	TT	327	22.5	7,358	7163	2,306,843	
9/2/2020	P-3798	0047810038	65	80	TT	68	22.5	1,530	1510	2,308,353	
9/2/2020	P-3799	0047810037	65	80	TT	261	22.5	5,873	5708	2,314,061	

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Panel Deployment Summary

Deployment Date	Panel Number	Roll Number	Ambient Temp. (°F)	Average Thickness (mm)	QA Monitor	Approximate Quantities			Surveyed Quantities		Remarks
						Length (ft)	Width (ft)	Area (ft²)	Area (ft²)	Cumulative Area (ft²)	
9/2/2020	P-3800	0047810037	65	80	TT	134	22.5	3,015	2920	2,316,981	
9/2/2020	P-3801	0047810029	65	80	TT	201	22.5	4,523	4392	2,321,373	
9/2/2020	P-3802	0047810029	65	80	TT	193	22.5	4,343	4284	2,325,657	
9/2/2020	P-3803	0047810085	65	80	TT	103	22.5	2,318	2231	2,327,888	
9/2/2020	P-3804	0047810075	65	80	TT	44	22.5	990	977	2,328,865	
9/2/2020	P-3805	0047810036	65	80	TT	347.5	22.5	7,819	7555	2,336,420	
9/2/2020	P-3806	0047810097	65	80	TT	353	22.5	7,943	7778	2,344,198	
9/3/2020	P-3807	0047810095	55	80	TT	358	22.5	8,055	7845	2,352,043	
9/3/2020	P-3808	0047810032	55	80	TT	364	22.5	8,190	8216	2,360,259	
9/3/2020	P-3809	0047810093	55	80	TT	372	22.5	8,370	8,174	2,368,433	
9/3/2020	P-3810	0047810106	55	80	TT	383	22.5	8,618	8,553	2,376,986	
9/3/2020	P-3811	0047810098	58	80	TT	391	22.5	8,798	8,737	2,385,723	
9/3/2020	P-3812	0047810008	60	80	TT	394	22.5	8,865	8,912	2,394,635	
9/3/2020	P-3813	0047810033	60	80	TT	399	22.5	8,978	8704	2,403,339	
9/3/2020	P-3814	0047810111	60	80	TT	18	22.5	405	425	2,403,764	
9/3/2020	P-3815	0047810027	60	80	TT	391	22.5	8,798	8655	2,412,419	
9/3/2020	P-3816	0047810111	60	80	TT	40	22.5	900	921	2,413,340	
9/3/2020	P-3817	0047810115	60	80	TT	86	22.5	1,935	1779	2,415,119	
9/3/2020	P-3818	0047810028	60	80	TT	358	22.5	8,055	7563	2,422,682	
9/3/2020	P-3819	0047810125	65	80	TT	359	22.5	8,078	7820	2,430,502	
9/3/2020	P-3820	0047810114	65	80	TT	64	22.5	1,440	1408	2,431,910	
9/3/2020	P-3821	0047810125	65	80	TT	62	22.5	698	729	2,432,639	
9/3/2020	P-3822	0047810077	65	80	TT	333	22.5	7,493	7356	2,439,995	
9/3/2020	P-3823	0047810077	65	80	TT	65	22.5	731	725	2,440,720	
9/3/2020	P-3824	0047810164	65	80	TT	125	22.5	2,813	2742	2,443,462	
9/3/2020	P-3825	0047820045	65	80	TT	128	22.5	2,880	2797	2,446,259	
9/3/2020	P-3826	0047810079	65	80	TT	18	22.5	405	412	2,446,671	
9/3/2020	P-3827	0047810079	65	80	TT	242	22.5	5,445	5320	2,451,991	
9/3/2020	P-3828	0047810079	65	80	TT	61	22.5	686	611	2,452,602	

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Panel Deployment Summary

Deployment Date	Panel Number	Roll Number	Ambient Temp. (°F)	Average Thickness (mm)	QA Monitor	Approximate Quantities			Surveyed Quantities		Remarks
						Length (ft)	Width (ft)	Area (ft²)	Area (ft²)	Cumulative Area (ft²)	
9/3/2020	P-3829	0047810079	65	80	TT	106	22.5	2,385	2332	2,454,934	
9/3/2020	P-3830	0047810123	65	80	TT	42	22.5	945	947	2,455,881	
9/3/2020	P-3831	0047820019	65	80	TT	98	22.5	2,205	2286	2,458,167	
9/3/2020	P-3832	0047820019	65	80	TT	27	10	135	100	2,458,267	
9/3/2020	P-3833	0047810083	65	80	TT	41	22.5	923	821	2,459,088	
9/4/2020	P-3834	0047810083	52	80	RM	61	22.5	686	652	2,459,740	
9/4/2020	P-3835	0047810132	52	80	RM	81.5	22.5	2,014	1995	2,461,735	
9/4/2020	P-3836	0047810132	52	80	RM	26	8	104	95	2,461,830	
9/4/2020	P-3837	0047810162	52	80	RM	89	22.5	2,003	2087	2,463,917	
9/4/2020	P-3838	0047810117	52	80	RM	65	22.5	1,463	1429	2,465,346	
9/4/2020	P-3839	0047810057	52	80	RM	226.5	22.5	5,096	5016	2,470,362	
9/4/2020	P-3840	0047810057	55	80	RM	110.5	22.5	2,486	2432	2,472,794	
9/4/2020	P-3841	0038410028	55	80	RM	42.5	22.5	956	923	2,473,717	
9/4/2020	P-3842	0047810082	55	80	RM	112	22.5	2,520	2387	2,476,104	
9/4/2020	P-3843	0047810076	55	80	RM	26	22.5	585	586	2,476,690	
9/4/2020	P-3844	0047810076	55	80	RM	60	22.5	675	724	2,477,414	
9/4/2020	P-3845	0047810076	55	80	RM	322.5	22.5	7,256	7078	2,484,492	
9/4/2020	P-3846	0047810076	60	80	RM	52	22.5	585	653	2,485,145	
9/4/2020	P-3847	0047810013	60	80	RM	386	22.5	8,685	8210	2,493,355	
9/4/2020	P-3848	0047810009	60	80	RM	373	22.5	8,393	8622	2,501,977	
9/4/2020	P-3849	0047810163	60	80	RM	31	22.5	698	709	2,502,686	
9/4/2020	P-3850	0047810163	60	80	RM	63	22.5	1,418	1383	2,504,069	
9/4/2020	P-3851	0047810011	60	80	RM	355.5	22.5	7,999	7953	2,512,022	
9/4/2020	P-3852	0047810166	60	80	RM	93	22.5	2,093	2022	2,514,044	
9/4/2020	P-3853	0047810059	70	80	TT	302	22.5	6,795	6603	2,520,647	
9/4/2020	P-3854	0047810059	70	80	TT	49	22.5	1,103	1053	2,521,700	
9/4/2020	P-3855	0047810146	70	80	TT	133	22.5	2,993	2896	2,524,596	
9/4/2020	P-3856	0047810058	70	80	TT	185	22.5	4,163	4071	2,528,667	
9/4/2020	P-3857	0047810058	70	80	TT	196	22.5	4,410	4300	2,532,967	

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Panel Deployment Summary

Deployment Date	Panel Number	Roll Number	Ambient Temp. (°F)	Average Thickness (mm)	QA Monitor	Approximate Quantities			Surveyed Quantities		Remarks
						Length (ft)	Width (ft)	Area (ft²)	Area (ft²)	Cumulative Area (ft²)	
9/4/2020	P-3858	0047810012	70	80	TT	145	22.5	3,263	3199	2,536,166	
9/4/2020	P-3859	0047810012	70	80	TT	240	22.5	5,400	5278	2,541,444	
9/4/2020	P-3860	0047810160	70	80	TT	73	22.5	1,643	1643	2,543,087	
9/4/2020	P-3861	0047810185	70	80	TT	119	22.5	2,678	2542	2,545,629	
9/4/2020	P-3862	0047820037	70	80	TT	143	22.5	3,218	3039	2,548,668	
9/4/2020	P-3863	0032750363	70	80	TT	25	22.5	563	588	2,549,256	
9/5/2020	P-3864	0047810014	55	80	TT	258	22.5	5,805	5720	2,554,976	
9/5/2020	P-3865	0047810014	55	80	TT	105	22.5	2,363	2293	2,557,269	
9/5/2020	P-3866	0047820011	55	80	TT	125	22.5	2,813	2775	2,560,044	
9/5/2020	P-3867	0047810060	60	80	TT	202	22.5	4,545	4411	2,564,455	
9/5/2020	P-3868	0047810060	60	80	TT	166	22.5	3,735	3548	2,568,003	
9/5/2020	P-3869	0047810056	60	80	TT	11	22.5	248	230	2,568,233	
9/5/2020	P-3870	0047810161	60	80	TT	101	22.5	2,273	2212	2,570,445	
9/5/2020	P-3871	0047810056	60	80	TT	44	22.5	990	958	2,571,403	
9/5/2020	P-3872	0047810056	60	80	TT	119	22.5	2,678	2581	2,573,984	
9/5/2020	P-3873	0047810056	60	80	TT	96	22.5	2,160	2083	2,576,067	
9/5/2020	P-3874	0047810056	60	80	TT	60	22.5	1,350	1300	2,577,367	
9/5/2020	P-3875	0032750366	60	80	TT	13	22.5	293	285	2,577,652	
9/5/2020	P-3876	0032750366	60	80	TT	54	22.5	1,215	1134	2,578,786	
9/18/2020	P-3877	0047810169	50	80	TT	47	22.5	529	424	2,579,210	
9/18/2020	P-3878	0047810203	50	80	TT	75	22.5	1,688	1633	2,580,843	
9/18/2020	P-3879	0047820065	50	80	TT	128	22.5	2,880	2802	2,583,645	
9/18/2020	P-3880	0047820024	50	80	TT	74	22.5	1,665	1631	2,585,276	
9/18/2020	P-3881	0047820058	52	80	TT	108	22.5	2,430	2329	2,587,605	
9/18/2020	P-3882	0047810003	52	80	TT	238	22.5	5,355	5188	2,592,793	
9/18/2020	P-3883	0047810003	52	80	TT	98	22.5	2,205	2138	2,594,931	
9/18/2020	P-3884	0048240024	52	80	TT	144	22.5	3,240	3153	2,598,084	
9/18/2020	P-3885	0047810024	52	80	TT	53	22.5	1,193	1128	2,599,212	
9/18/2020	P-3886	0047810024	55	80	TT	319	22.5	7,178	6966	2,606,178	

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Panel Deployment Summary

Deployment Date	Panel Number	Roll Number	Ambient Temp. (°F)	Average Thickness (mm)	QA Monitor	Approximate Quantities			Surveyed Quantities		Remarks
						Length (ft)	Width (ft)	Area (ft²)	Area (ft²)	Cumulative Area (ft²)	
9/18/2020	P-3887	0047810167	55	80	TT	30	22.5	675	645	2,606,823	
9/18/2020	P-3888	0047810006	55	80	TT	381	22.5	8,573	8434	2,615,257	
9/18/2020	P-3889	0047810025	55	80	TT	20	22.5	450	442	2,615,699	
9/18/2020	P-3890	0047810025	55	80	TT	352	22.5	7,920	7783	2,623,482	
9/18/2020	P-3891	0047810017	60	80	TT	100	22.5	2,250	2183	2,625,665	
9/18/2020	P-3892	0047810138	60	80	TT	135	22.5	3,038	2952	2,628,617	
9/18/2020	P-3893	0047810135	60	80	TT	136	22.5	3,060	2988	2,631,605	
9/18/2020	P-3894	0047810007	60	80	TT	213	22.5	4,793	4717	2,636,322	
9/18/2020	P-3895	0047810007	60	80	TT	163	22.5	3,668	3664	2,639,986	
9/18/2020	P-3896	0047820039	60	80	TT	144	22.5	3,240	3198	2,643,184	
9/18/2020	P-3897	0047810005	60	80	TT	183	22.5	4,118	4047	2,647,231	
9/19/2020	P-3898	0047810005	50	80	TT	19	10	95	85	2,647,316	
9/19/2020	P-3899	0047810005	50	80	TT	51	22.5	1,148	1207	2,648,523	
9/19/2020	P-3900	0047810005	50	80	TT	61	22.5	1,373	1371	2,649,894	
9/19/2020	P-3901	0047810022	50	80	TT	57	22.5	1,283	1262	2,651,156	
9/19/2020	P-3902	0047810022	50	80	TT	147	22.5	3,308	3285	2,654,441	
9/19/2020	P-3903	0047810022	50	80	TT	76	22.5	855	809	2,655,250	
9/19/2020	P-3904	0047810022	55	80	TT	106	22.5	2,385	2367	2,657,617	
9/19/2020	P-3905	0047810021	55	80	TT	144	22.5	3,240	3271	2,660,888	
9/19/2020	P-3906	0047810021	55	80	TT	187	22.5	4,208	4105	2,664,993	
9/19/2020	P-3907	0047810015	55	80	TT	92	22.5	2,070	2076	2,667,069	
9/19/2020	P-3908	0047810021	55	80	TT	82	22.5	923	915	2,667,984	
9/19/2020	P-3909	0047810015	55	80	TT	287	22.5	6,458	6319	2,674,303	
9/19/2020	P-3910	0047810019	55	80	TT	80	22.5	1,800	2051	2,676,354	
9/19/2020	P-3911	0047810019	55	80	TT	280	22.5	6,300	6251	2,682,605	
9/19/2020	P-3912	0047810026	55	80	TT	91	22.5	2,048	2047	2,684,652	
9/19/2020	P-3913	0047810026	55	80	TT	291	22.5	6,548	6409	2,691,061	
9/19/2020	P-3914	0047810020	55	80	TT	72	22.5	1,620	1635	2,692,696	
9/21/2020	P-3915	0047810020	50	80	TT	316	22.5	7,110	6920	2,699,616	

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Panel Deployment Summary

Deployment Date	Panel Number	Roll Number	Ambient Temp. (°F)	Average Thickness (mm)	QA Monitor	Approximate Quantities			Surveyed Quantities		Remarks
						Length (ft)	Width (ft)	Area (ft²)	Area (ft²)	Cumulative Area (ft²)	
9/21/2020	P-3916	0047810193	50	80	TT	41	22.5	923	915	2,700,531	
9/21/2020	P-3917	0047810193	50	80	TT	159	22.5	3,578	3492	2,704,023	
9/21/2020	P-3918	0047810016	50	80	TT	195	22.5	4,388	4295	2,708,318	
9/21/2020	P-3919	0047810016	55	80	TT	193	22.5	4,343	4255	2,712,573	
9/21/2020	P-3920	0047810018	55	80	TT	158	22.5	3,555	3501	2,716,074	
9/21/2020	P-3921	0047810018	55	80	TT	231	22.5	5,198	5053	2,721,127	
9/21/2020	P-3922	0047810061	55	80	TT	119	22.5	2,678	2646	2,723,773	
9/21/2020	P-3923	0047810061	55	80	TT	271	22.5	6,098	5942	2,729,715	
9/21/2020	P-3924	0047810010	55	80	TT	79	22.5	1,778	1727	2,731,442	
9/21/2020	P-3925	0047810010	55	80	TT	312	22.5	7,020	6843	2,738,285	
9/21/2020	P-3926	0047810051	55	80	TT	40	22.5	900	853	2,739,138	
9/21/2020	P-3927	0047810051	60	80	TT	351	22.5	7,989	7804	2,746,942	
9/21/2020	P-3928	0047810062	60	80	TT	349	22.5	7,853	7569	2,754,511	
9/21/2020	P-3929	0047810023	60	80	TT	348	22.5	7,830	7752	2,762,263	
9/22/2020	P-3930	0047810074	50	80	TT	344	22.5	7,740	7636	2,769,899	
9/22/2020	P-3931	0047810064	50	80	TT	342	22.5	7,695	7454	2,777,353	
9/22/2020	P-3932	0047810069	50	80	TT	339	22.5	7,628	7472	2,784,825	
9/22/2020	P-3933	0047810063	50	80	TT	336	22.5	7,560	7355	2,792,180	
9/22/2020	P-3934	0047810065	50	80	TT	332	22.5	7,470	7347	2,799,527	
9/22/2020	P-3935	0047810073	50	80	TT	328	22.5	7,380	7134	2,806,661	
9/22/2020	P-3936	0047810072	55	80	TT	322	22.5	7,245	7120	2,813,781	
9/22/2020	P-3937	0047810053	55	80	TT	317	22.5	7,133	6994	2,820,775	
9/23/2020	P-3938	0047810054	50	80	TT	314	22.5	7,065	6891	2,827,666	
9/23/2020	P-3939	0047810052	50	80	TT	312	22.5	7,020	6857	2,834,523	
9/23/2020	P-3940	0047810017	50	80	TT	311	22.5	6,998	6874	2,841,397	
9/23/2020	P-3941	0047810055	50	80	TT	310	22.5	6,975	6850	2,848,247	
9/23/2020	P-3942	0047810195	50	80	TT	308	22.5	6,930	6836	2,855,083	
9/23/2020	P-3943	0047810071	50	80	TT	308	22.5	6,930	6815	2,861,898	
9/23/2020	P-3944	0047810067	50	80	TT	308	22.5	6,930	6797	2,868,695	

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Panel Deployment Summary

Deployment Date	Panel Number	Roll Number	Ambient Temp. (°F)	Average Thickness (mm)	QA Monitor	Approximate Quantities			Surveyed Quantities		Remarks
						Length (ft)	Width (ft)	Area (ft²)	Area (ft²)	Cumulative Area (ft²)	
9/23/2020	P-3945	0047810050	55	80	TT	310	22.5	6,975	6905	2,875,600	
9/23/2020	P-3946	0047810050	55	80	TT	80	22.5	1,800	1720	2,877,320	
9/23/2020	P-3947	0047810066	55	80	TT	232	22.5	5,220	5140	2,882,460	
9/23/2020	P-3948	0047810066	55	80	TT	162	22.5	3,645	3502	2,885,962	
9/23/2020	P-3949	0047810070	55	80	TT	149	22.5	3,353	3252	2,889,214	
9/23/2020	P-3950	0047810070	60	80	TT	243	22.5	5,468	5256	2,894,470	
9/23/2020	P-3951	0047810140	60	80	TT	68	22.5	1,530	1488	2,895,958	
9/24/2020	P-3952	0047810045	45	80	TT	308	22.5	6,930	6877	2,902,835	
9/24/2020	P-3953	0047810068	45	80	TT	280	22.5	6,300	6162	2,908,997	
9/24/2020	P-3954	0047810046	45	80	TT	215	22.5	4,838	4682	2,913,679	
9/24/2020	P-3955	0047810046	45	80	TT	117	22.5	2,633	2704	2,916,383	
9/24/2020	P-3956	0047810049	45	80	TT	37	16	296	222	2,916,605	
9/24/2020	P-3957	0047810049	45	80	TT	59	22.5	1,328	1265	2,917,870	
9/24/2020	P-3958	0047810049	45	80	TT	16	7	56	51	2,917,921	
9/24/2020	P-3959	0047810049	45	80	TT	264	22.5	5,940	5839	2,923,760	
9/24/2020	P-3960	0047810042	50	80	TT	254	22.5	5,715	5576	2,929,336	
9/24/2020	P-3961	0047810042	55	80	TT	117	22.5	2,633	2562	2,931,898	
9/24/2020	P-3962	0047810043	55	80	TT	124	22.5	2,790	2723	2,934,621	
9/24/2020	P-3963	0047810043	55	80	TT	200	22.5	4,500	4562	2,939,183	
9/24/2020	P-3964	0047810048	60	80	TT	120	22.5	2,700	2636	2,941,819	
9/24/2020	P-3965	0047810048	65	80	TT	58	22.5	653	587	2,942,406	
9/24/2020	P-3966	0047810048	65	80	TT	180	22.5	4,050	3956	2,946,362	
9/24/2020	P-3967	0047810047	65	80	TT	174	22.5	3,915	3807	2,950,169	
9/24/2020	P-3968	0047810047	65	80	TT	171	22.5	3,848	3301	2,953,470	

APPENDIX J.2 – GEOMEMBRANE TRIAL SEAM SUMMARIES

APPENDIX J.2.1 – GEOMEMBRANE FUSION TRIAL SEAM SUMMARY

APPENDIX J.2.2 – GEOMEMBRANE EXTRUSION TRIAL SEAM SUMMARY

APPENDIX J.2.1 – GEOMEMBRANE FUSION TRIAL SEAM SUMMARY

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Fusion Trial Seam Summary

Date	Sample Number	Time	Machine Number	Operator	Ambient Air Temp. (°F)	Machine Settings		Test Results							QA Monitor	Remarks
						Temp. (°F)	Speed (ft/min)	Inside Peel (Min. = 100 ppi)		Outside Peel (Min. = 100 ppi)		Shear (Minimum = 120 ppi)		Pass/ Fail		
								Strength (ppi)	Mode[1]	Strength (ppi)	Mode[1]	Strength (ppi)	Mode[1]			
8/24/2020	TF-1534	12:40 AM	42	WL	75	850	14.4	132	SE1	131	SE1	147	BRK	P	TT	Smooth/Smooth
								113	SE1	122	SE1					
8/24/2020	TF-1535	12:35 AM	82	AG	75	800	10	131	SE1	139	SE1	149	BRK	P	TT	Smooth/Smooth
								111	SE1	124	SE1					
8/24/2020	TF-1536	9:52 AM	82	AG	56	800	10	134	SE1	137	SE1	156	BRK	P	BM	Smooth/Smooth
								132	SE1	128	SE1					
8/24/2020	TF-1537	9:50 AM	42	WL	56	850	14.4	136	SE1	138	SE1	160	BRK	P	BM	Smooth/Smooth
								132	SE1	120	SE1					
8/25/2020	TF-1538	1:05 PM	42	WL	72	850	13	132	SE1	126	SE1	144	BRK	P	BM	Smooth/Smooth
								126	SE1	103	SE1					
8/25/2020	TF-1539	1:05 PM	82	AG	72	800	10	138	SE1	136	SE1	156	BRK	P	BM	Smooth/Smooth
								125	SE1	119	SE1					
8/26/2020	TF-1540	7:30 AM	42	WL	60	850	12.5	154	SE1	158	SE1	181	BRK	P	TT	Smooth/Smooth
								148	SE1	141	SE1					
8/26/2020	TF-1541	7:33 AM	82	AG	60	800	10	153	SE1	140	SE1	175	BRK	P	TT	Smooth/Smooth
								146	SE1	148	SE1					
8/26/2020	TF-1542	12:45 PM	82	AG	70	800	10	127	SE1	130	SE1	151	BRK	P	TT	Smooth/Smooth
								121	SE1	128	SE1					
8/26/2020	TF-1543	12:50 PM	42	WL	70	850	11.5	136	SE1	136	SE1	151	BRK	P	TT	Smooth/Smooth
								133	SE1	131	SE1					
8/27/2020	TF-1544	7:45 AM	42	WL	52	850	12	144	SE1	143	SE1	170	BRK	P	RM	Smooth/Smooth
								133	SE1	140	SE1					
8/27/2020	TF-1545	7:40 AM	82	AG	52	800	10	172	SE1	157	SE1	188	BRK	P	RM	Smooth/Smooth
								150	SE1	129	SE1					
8/27/2020	TF-1546	1:05 PM	82	AG	70	800	10	153	SE1	150	SE1	162	BRK	P	RM	Smooth/Smooth
								126	SE1	123	SE1					
8/27/2020	TF-1547	1:20 PM	42	WL	70	850	12	138	SE1	138	SE1	153	BRK	P	RM	Smooth/Smooth
								124	SE1	125	SE1					
8/28/2020	TF-1548	7:38 AM	82	AG	55	800	10	146	SE1	154	SE1	168	BRK	P	TT	Smooth/Smooth
								133	SE1	141	SE1					
8/28/2020	TF-1549	7:45 AM	42	WL	55	850	12	142	SE1	139	SE1	166	BRK	P	TT	Smooth/Smooth
								126	SE1	137	SE1					

[1]See Figure 3 for Modes

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Fusion Trial Seam Summary

Date	Sample Number	Time	Machine Number	Operator	Ambient Air Temp. (°F)	Machine Settings		Test Results							QA Monitor	Remarks
						Temp. (°F)	Speed (ft/min)	Inside Peel (Min. = 100 ppi)		Outside Peel (Min. = 100 ppi)		Shear (Minimum = 120 ppi)		Pass/ Fail		
								Strength (ppi)	Mode[1]	Strength (ppi)	Mode[1]	Strength (ppi)	Mode[1]			
8/29/2020	TF-1550	10:05 AM	42	WL	55	850	12	128	SE1	132	SE1	146	BRK	P	TT	Textured/Textured
								111	SE1	118	SE1					
8/29/2020	TF-1551	13:45 AM	42	WL	55	850	12	150	SE1	148	SE1	173	BRK	P	TT	Textured/Textured
								132	SE1	136	SE1					
8/31/2020	TF-1552	7:35 AM	42	WL	48	850	11.5	179	SE1	175	SE1	199	BRK	P	TT	Textured/Textured
								164	SE1	165	SE1					
9/1/2020	TF-1553	8:00 AM	82	JA	52	800	10	170	SE1	159	SE1	198	BRK	P	RM	Smooth/Smooth
								155	SE1	160	SE1					
9/1/2020	TF-1554	8:05 AM	42	WL	52	850	12	159	SE1	160	SE1	198	BRK	P	RM	Smooth/Smooth
								151	SE1	152	SE1					
9/1/2020	TF-1555	12:55 PM	42	WL	60	850	11.5	147	SE1	166	SE1	171	BRK	P	RM	Smooth/Smooth
								146	SE1	133	SE1					
9/1/2020	TF-1556	1:14 PM	82	JA	60	750	12	170	SE1	163	SE1	185	BRK	P	RM	Smooth/Smooth
								135	SE1	145	SE1					
9/2/2020	TF-1557	7:25 AM	42	WL	68	850	11	162	SE1	163	SE1	195	BRK	P	BM	Smooth/Smooth
								180	SE1	156	SE1					
9/2/2020	TF-1558	7:39 AM	82	AG	68	800	10	171	SE1	159	SE1	198	BRK	P	BM	Smooth/Smooth
								165	SE1	152	SE1					
9/2/2020	TF-1559	12:45 PM	82	AG	67	800	10	146	SE1	145	SE1	196	BRK	P	BM	Smooth/Smooth
								141	SE1	142	SE1					
9/2/2020	TF-1560	12:45 PM	42	WL	67	850	11.5	147	SE1	156	SE1	176	BRK	P	BM	Smooth/Smooth
								146	SE1	144	SE1					
9/3/2020	TF-1561	7:20 AM	82	AG	51	800	10	131	SE1	150	SE1	189	BRK	P	BM	Smooth/Smooth
								130	SE1	139	SE1					
9/3/2020	TF-1562	7:25 AM	42	WL	51	850	11	176	SE1	166	SE1	193	BRK	P	BM	Smooth/Smooth
								160	SE1	164	SE1					
9/3/2020	TF-1563	12:40 PM	82	AG	61	800	10	145	SE1	146	SE1	161	BRK	P	BM	Smooth/Smooth
								143	SE1	138	SE1					
9/3/2020	TF-1564	12:46 PM	42	WL	61	850	11	130	SE1	143	SE1	159	BRK	P	BM	Smooth/Smooth
								118	SE1	134	SE1					
9/4/2020	TF-1565	7:30 AM	42	WL	60	850	12.5	162	SE1	162	SE1	178	BRK	P	BM	Smooth/Smooth
								162	SE1	152	SE1					

[1]See Figure 3 for Modes

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Fusion Trial Seam Summary

Date	Sample Number	Time	Machine Number	Operator	Ambient Air Temp. (°F)	Machine Settings		Test Results							QA Monitor	Remarks
						Temp. (°F)	Speed (ft/min)	Inside Peel (Min. = 100 ppi)		Outside Peel (Min. = 100 ppi)		Shear (Minimum = 120 ppi)		Pass/ Fail		
								Strength (ppi)	Mode[1]	Strength (ppi)	Mode[1]	Strength (ppi)	Mode[1]			
9/4/2020	TF-1566	7:28 AM	82	AG	60	800	10	166	SE1	173	SE1	188	BRK	P	BM	Smooth/Smooth
								162	SE1	155	SE1					
9/4/2020	TF-1567	12:45 PM	82	AG	80	800	10	125	SE1	122	SE1	147	BRK	P	BM	Smooth/Smooth
								116	SE1	117	SE1					
9/4/2020	TF-1568	12:55 PM	42	WL	80	850	12.5	115	SE1	116	SE1	137	BRK	P	BM	Smooth/Smooth
								111	SE1	109	SE1					
9/5/2020	TF-1569	7:18 AM	82	AG	52	800	10	160	SE1	163	SE1	193	BRK	P	BM	Smooth/Smooth
								166	SE1	157	SE1					
9/5/2020	TF-1570	7:25 AM	42	WL	52	850	11	154	SE1	164	SE1	192	BRK	P	BM	Smooth/Smooth
								145	SE1	157	SE1					
9/18/2020	TF-1571	8:20 AM	42	WL	53	850	11.5	158	SE1	167	SE1	196	BRK	P	BM	Smooth/Smooth
								150	SE1	163	SE1					
9/18/2020	TF-1572	8:20 AM	82	AG	53	800	10	165	SE1	166	SE1	194	BRK	P	BM	Smooth/Smooth
								163	SE1	153	SE1					
9/18/2020	TF-1573	12:55 PM	42	WL	60	850	11.5	125	SE1	151	SE1	154	BRK	P	RM	Smooth/Smooth
								124	SE1	131	SE1					
9/18/2020	TF-1574	12:55 PM	82	AG	60	800	10	131	SE1	148	SE1	165	BRK	P	RM	Smooth/Smooth
								125	SE1	126	SE1					
9/19/2020	TF-1575	7:36 AM	82	AG	50	800	10	165	SE1	170	SE1	199	BRK	P	TT	Smooth/Smooth
								147	SE1	161	SE1					
9/19/2020	TF-1576	7:45 AM	42	WL	50	850	10.5	144	SE1	147	SE1	178	BRK	P	TT	Smooth/Smooth
								128	SE1	145	SE1					
9/21/2020	TF-1577	7:40 AM	42	WL	50	850	10.5	158	SE1	162	SE1	191	BRK	P	TT	Smooth/Smooth
								154	SE1	154	SE1					
9/21/2020	TF-1578	7:43 AM	82	AG	50	800	10	165	SE1	164	SE1	194	BRK	P	TT	Smooth/Smooth
								148	SE1	157	SE1					
9/21/2020	TF-1579	12:30 PM	82	AG	60	800	10	138	SE1	145	SE1	153	BRK	P	TT	Smooth/Smooth
								121	SE1	141	SE1					
9/21/2020	TF-1580	12:50 PM	42	WL	60	850	10.5	134	SE1	125	SE1	140	BRK	P	TT	Smooth/Smooth
								121	SE1	129	SE1					
9/22/2020	TF-1581	7:30 AM	42	WL	45	850	10.5	168	SE1	182	SE1	194	BRK	P	TT	Smooth/Smooth
								159	SE1	156	SE1					

[1]See Figure 3 for Modes

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Fusion Trial Seam Summary

Date	Sample Number	Time	Machine Number	Operator	Ambient Air Temp. (°F)	Machine Settings		Test Results							QA Monitor	Remarks
						Temp. (°F)	Speed (ft/min)	Inside Peel (Min. = 100 ppi)		Outside Peel (Min. = 100 ppi)		Shear (Minimum = 120 ppi)		Pass/ Fail		
								Strength (ppi)	Mode[1]	Strength (ppi)	Mode[1]	Strength (ppi)	Mode[1]			
9/22/2020	TF-1582	7:41 AM	82	AG	45	800	10	158	SE1	157	SE1	185	BRK	P	TT	Smooth/Smooth
								158	SE1	145	SE1					
9/23/2020	TF-1583	7:30 AM	42	WL	45	850	10.5	152	SE1	165	SE1	197	BRK	P	RM	Smooth/Smooth
								149	SE1	164	SE1					
9/23/2020	TF-1584	7:37 AM	82	AG	45	800	10	169	SE1	166	SE1	196	BRK	P	RM	Smooth/Smooth
								154	SE1	177	SE1					
9/23/2020	TF-1585	12:40 PM	82	AG	62	800	10	161	SE1	165	SE1	183	BRK	P	BM	Smooth/Smooth
								149	SE1	143	SE1					
9/23/2020	TF-1586	12:50 PM	42	WL	62	850	12.5	127	SE1	145	SE1	158	BRK	P	BM	Smooth/Smooth
								139	SE1	132	SE1					
9/24/2020	TF-1587	7:30 AM	42	WL	48	850	12.5	163	SE1	174	SE1	192	BRK	P	BM	Smooth/Smooth
								148	SE1	147	SE1					
9/24/2020	TF-1588	7:32 AM	82	AG	48	800	10	174	SE1	162	SE1	198	BRK	P	BM	Smooth/Smooth
								169	SE1	176	SE1					
9/24/2020	TF-1589	12:40 PM	82	AG	64	800	10	154	SE1	149	SE1	172	BRK	P	BM	Smooth/Smooth
								152	SE1	147	SE1					
9/24/2020	TF-1590	12:45 PM	42	WL	64	850	12.5	123	SE1	136	SE1	150	BRK	P	BM	Smooth/Smooth
								127	SE1	134	SE1					

[1]See Figure 3 for Modes

APPENDIX J.2.2 – GEOMEMBRANE EXTRUSION TRIAL SEAM SUMMARY

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Extrusion Trial Seam Summary

Date	Sample Number	Time	Machine Number	Operator	Ambient Air Temp. (°F)	Machine Settings		Test Results					QA Monitor	Remarks
						Pre-Heat Temp. (°F)	Extruder Temp. (°F)	Peel (Min. = 100 ppi)		Shear (Min. = 120 ppi)		Pass/Fail		
								Strength (ppi)	Mode[1]	Strength (ppi)	Mode[1]			
8/25/2020	TX-754	8:00 AM	49	WL	65	500	500	153	SE3	158	BRK	PASS	TT	
								141	SE3					
8/25/2020	TX-755	9:10 AM	25	JA	65	525	525	118	SE3	161	BRK	PASS	TT	
								133	SE3					
8/26/2020	TX-756	2:55 PM	49	WL	70	500	500	150	SE3	161	BRK	PASS	TT	
								155	SE3					
8/26/2020	TX-757	3:20 PM	49	WL	70	500	500	114	SE3	149	BRK	PASS	TT	
								120	SE3					
8/27/2020	TX-758	3:20 PM	49	WL	70	500	500	130	SE3	142	BRK	PASS	TT	
								124	SE3					
8/29/2020	TX-758	9:13 AM	49	JLO	55	550	550	133	SE3	155	BRK	PASS	TT	
								120	SE3					
8/29/2020	TX-759	9:20 AM	25	JA	55	550	550	122	SE3	153	BRK	PASS	TT	
								121	SE3					
8/31/2020	TX-760	7:45 AM	25	JA	48	550	550	125	SE3	177	BRK	PASS	RM	
								118	SE3					
8/31/2020	TX-761	8:42 AM	44	JL	52	550	550	152	SE3	172	BRK	PASS	RM	
								113	SE3					
8/31/2020	TX-762	8:46 AM	49	WL	52	550	550	149	SE3	160	BRK	PASS	RM	
								137	SE3					
8/31/2020	TX-763	12:35 PM	44	JL	60	550	550	143	SE3	153	BRK	PASS	RM	
								121	SE3					
8/31/2020	TX-764	12:45 PM	25	JA	60	500	500	122	SE3	154	BRK	PASS	RM	
								116	SE3					
8/31/2020	TX-765	12:45 PM	49	WL	60	550	550	112	SE3	142	BRK	PASS	RM	
								107	SE3					
9/11/2020	TX-766	8:50 AM	25	JA	37	550	550	174	SE3	199	BRK	PASS	TT	
								182	SE3					

[1]See Figure 3 for Modes

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Extrusion Trial Seam Summary

Date	Sample Number	Time	Machine Number	Operator	Ambient Air Temp. (°F)	Machine Settings		Test Results					QA Monitor	Remarks
						Pre-Heat Temp. (°F)	Extruder Temp. (°F)	Peel (Min. = 100 ppi)		Shear (Min. = 120 ppi)		Pass/Fail		
								Strength (ppi)	Mode[1]	Strength (ppi)	Mode[1]			
9/11/2020	TX-767	9:16 AM	49	WL	37	550	550	179	SE3	192	BRK	PASS	TT	
								180	SE3					
9/11/2020	TX-768	12:50 PM	25	JA	50	550	550	169	SE3	187	BRK	PASS	TT	
								153	SE3					
9/11/2020	TX-769	12:53 PM	49	WL	50	550	550	155	SE3	172	BRK	PASS	TT	
								159	SE3					
9/12/2020	TX-770	7:50 AM	25	JA	45	550	550	129	SE3	181	BRK	PASS	TT	
								116	SE3					
9/12/2020	TX-771	7:52 AM	44	JLO	45	550	550	163	SE3	171	BRK	PASS	TT	
								152	SE3					
9/12/2020	TX-772	8:01 AM	49	WL	45	550	550	128	SE3	165	BRK	PASS	TT	
								136	SE3					
9/12/2020	TX-773	12:55 PM	49	WL	60	550	550	131	SE3	157	BRK	PASS	TT	
								126	SE3					
9/12/2020	TX-774	1:00 PM	25	JA	60	500	500	123	SE3	142	BRK	PASS	TT	
								118	SE3					
9/12/2020	TX-775	1:18 PM	44	JLO	60	550	550	123	SE3	141	BRK	PASS	TT	
								117	SE3					
9/14/2020	TX-776	7:30 AM	25	AA	50	550	550	138	SE3	167	BRK	PASS	RM	
								145	SE3					
9/14/2020	TX-777	8:00 AM	49	WL	50	500	500	150	SE3	166	BRK	PASS	RM	
								140	SE3					
9/14/2020	TX-778	1:00 PM	49	WL	65	500	500	118	SE3	135	BRK	PASS	RM	
								121	SE3					
9/14/2020	TX-779	12:45 PM	25	AA	65	550	550	120	SE3	148	BRK	PASS	RM	
								126	SE3					
9/15/2020	TX-780	9:02 AM	49	WL	52	500	500	139	SE3	148	BRK	PASS	RM	
								127	SE3					

[1]See Figure 3 for Modes

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Extrusion Trial Seam Summary

Date	Sample Number	Time	Machine Number	Operator	Ambient Air Temp. (°F)	Machine Settings		Test Results					QA Monitor	Remarks
						Pre-Heat Temp. (°F)	Extruder Temp. (°F)	Peel (Min. = 100 ppi)		Shear (Min. = 120 ppi)		Pass/Fail		
								Strength (ppi)	Mode[1]	Strength (ppi)	Mode[1]			
9/15/2020	TX-781	8:50 AM	25	AA	52	550	550	141	SE3	155	BRK	PASS	RM	
								139	SE3					
9/15/2020	TX-782	12:45 PM	25	AA	62	550	550	138	SE3	150	BRK	PASS	RM	
								131	SE3					
9/15/2020	TX-783	12:45 PM	49	WL	62	500	500	132	SE3	148	BRK	PASS	RM	
								129	SE3					
9/16/2020	TX-784	7:40 AM	25	AA	50	550	550	172	SE3	170	BRK	PASS	TT	
								162	SE3					
9/16/2020	TX-785	7:40 AM	49	WL	50	500	500	152	SE3	164	BRK	PASS	TT	
								147	SE3					
9/16/2020	TX-786	10:00 AM	44	JLO	55	550	550	161	SE3	170	BRK	PASS	TT	
								152	SE3					
9/16/2020	TX-787	12:55 PM	49	WL	60	500	500	125	SE3	139	BRK	PASS	TT	
								127	SE3					
9/16/2020	TX-788	12:50 PM	25	AA	60	550	550	132	SE3	146	BRK	PASS	TT	
								122	SE3					
9/16/2020	TX-789	1:01 PM	44	JLO	60	550	550	153	SE3	152	BRK	PASS	TT	
								145	SE3					
9/18/2020	TX-790	9:10 AM	25	AA	38	550	550	148	SE3	170	BRK	PASS	TT	
								150	SE3					
9/18/2020	TX-791	12:45 PM	25	AA	43	550	550	126	SE3	148	BRK	PASS	TT	
								132	SE3					
9/19/2020	TX-792	2:10 PM	25	AA	65	550	550	126	SE3	140	BRK	PASS	TT	
								118	SE3					
9/21/2020	TX-793	3:11 PM	25	AA	65	550	550	129	SE3	154	BRK	PASS	TT	
								131	SE3					
9/22/2020	TX-794	12:40 PM	25	AA	55	550	550	158	SE3	174	BRK	PASS	RM	
								149	SE3					

[1]See Figure 3 for Modes

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Extrusion Trial Seam Summary

Date	Sample Number	Time	Machine Number	Operator	Ambient Air Temp. (°F)	Machine Settings		Test Results					QA Monitor	Remarks
						Pre-Heat Temp. (°F)	Extruder Temp. (°F)	Peel (Min. = 100 ppi)		Shear (Min. = 120 ppi)		Pass/Fail		
								Strength (ppi)	Mode[1]	Strength (ppi)	Mode[1]			
9/22/2020	TX-795	1:22 PM	49	WL	55	500	500	144	SE3	169	BRK	PASS	RM	
								148	SE3					
9/24/2020	TX-796	2:45 PM	25	AA	70	550	550	143	SE3	148	BRK	PASS	TT	
								137	SE3					
9/24/2020	TX-797	2:50 PM	49	WL	70	500	500	135	SE3	149	BRK	PASS	TT	
								127	SE3					
9/25/2020	TX-798	8:00 AM	25	AA	50	550	550	140	SE3	180	BRK	PASS	TT	
								153	SE3					
9/25/2020	TX-799	8:17 AM	44	JLO	50	550	550	146	SE3	164	BRK	PASS	TT	
								140	SE3					
9/25/2020	TX-800	8:20 AM	49	WL	50	500	500	150	SE3	156	BRK	PASS	TT	
								154	SE3					
9/25/2020	TX-801	12:40 PM	49	WL	70	500	500	145	SE3	149	BRK	PASS	TT	
								143	SE3					
9/25/2020	TX-802	12:50 PM	25	AA	70	550	550	135	SE3	149	BRK	PASS	TT	
								107	SE3					
9/25/2020	TX-803	12:53 PM	44	JLO	70	550	550	144	SE3	168	BRK	PASS	TT	
								140	SE3					
9/26/2020	TX-804	8:00 AM	25	AA	50	550	550	153	SE3	180	BRK	PASS	TT	
								127	SE3					
9/26/2020	TX-805	8:00 AM	49	WL	50	500	500	162	SE3	165	BRK	PASS	TT	
								164	SE3					
9/26/2020	TX-806	8:09 AM	44	JLO	50	550	550	145	SE3	156	BRK	PASS	TT	
								140	SE3					
9/26/2020	TX-807	12:55 PM	49	WL	68	500	500	149	SE3	164	BRK	PASS	BM	
								143	SE3					
9/26/2020	TX-808	12:50 PM	25	AA	68	550	550	148	SE3	151	BRK	PASS	BM	
								136	SE3					

[1]See Figure 3 for Modes

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Extrusion Trial Seam Summary

Date	Sample Number	Time	Machine Number	Operator	Ambient Air Temp. (°F)	Machine Settings		Test Results					QA Monitor	Remarks
						Pre-Heat Temp. (°F)	Extruder Temp. (°F)	Peel (Min. = 100 ppi)		Shear (Min. = 120 ppi)		Pass/Fail		
								Strength (ppi)	Mode[1]	Strength (ppi)	Mode[1]			
9/26/2020	TX-809	12:54 PM	44	JLO	68	525	550	143	SE3	151	BRK	PASS	BM	
								136	SE3					

[1]See Figure 3 for Modes

APPENDIX J.3 – GEOMEMBRANE FUSION WELDING SUMMARY

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Fusion Welding Summary

NewFields
Perspective. Vision. Solutions.

Seam Date	Seam Number	Seam Sections From / To	Start Time	Ambient Temp (°F)	Operator	Machine Number	Speed Setting (ft/min)	Machine Temperature		Welded Seam Length (ft)	QA Monitor	Destructive Test Sample Number	Remarks
								Setting (°F)	Actual (°F)				
8/24/20	P-3713/P-3714	SEOS / NEOS	10:36 AM	68	AG	82	10	800	800	92	RM	DF-1283	237' N of SEOS
8/24/20	P-3715/P-3716	SEOS / NEOS	11:16 AM	72	AG	82	10	800	800	225	RM		
8/24/20	P-3716/P-3717	SEOS / NEOS	11:51 AM	72	AG	82	10	800	800	28	RM	DF-1284	245' N of SEOS
8/24/20	P-3718/P-3719	NEOS / NEOS	1:22 PM	82	AG	82	10	800	800	338	RM		
8/24/20	P-3441/P-3713	SEOS / NEOS	9:55 AM	75	WL	42	14.5	850	850	331	JS	DF-1282	325' N of SEOS
8/24/20	P-3714/P-3715	SEOS / NEOS	11:20 AM	78	WL	42	14.5	850	850	140	JS		
8/24/20	P-3714/P-3716	SEOS / NEOS	11:35 AM	78	WL	42	14.5	850	850	141	JS		
8/24/20	P-3714/P-3717	SEOS / NEOS	11:55 AM	78	WL	42	14.5	850	850	37	JS		
8/24/20	P-3717/P-3718	NEOS / SEOS	12:55 PM	82	WL	42	14.5	850	850	313	JS	DF-1285	156' S of NEOS
8/24/20	P-3719/P-3720	SEOS / NEOS	1:40 PM	82	WL	42	14.5	850	850	307	JS		
8/25/20	P-3720/P-3721	SEOS / NEOS	2:15 PM	72	AG	82	10	800	800	304	RM	DF-1286	14' N of SEOS
8/26/20	P-3721/P-3722	SEOS / NEOS	7:43 AM	60	AG	82	10	800	800	298	RM	DF-1287	180' N of SEOS
8/26/20	P-3723/P-3724	NEOS / SEOS	8:30 AM	60	AG	82	10	800	800	297	RM		
8/26/20	P-3726/P-3727	SEOS / NEOS	9:42 AM	65	AG	82	10	800	800	264	RM	DF-1290	55' N of SEOS
8/26/20	P-3728/P-3729	NEOS / SEOS	10:35 AM	65	AG	82	10	800	800	291	RM	DF-1292	231' S of NEOS
8/26/20	P-3730/P-3731	SEOS / NEOS	11:21 AM	65	AG	82	10	800	800	288	RM		
8/26/20	P-3732/P-3733	NEOS / SEOS	1:07 PM	70	AG	82	10	800	800	285	RM	DF-1294	122' S of NEOS
8/26/20	P-3722/P-3723	SEOS / NEOS	8:00 AM	60	WL	42	12.5	850	850	296	RM	DF-1288	16' N of SEOS
8/26/20	P-3724/P-3725	NEOS / SEOS	8:45 AM	60	WL	42	12.5	850	850	295	RM	DF-1289	190' S of NEOS
8/26/20	P-3725/P-3726	SEOS / NEOS	9:15 AM	60	WL	42	12.5	850	850	293	RM		
8/26/20	P-3727/P-3728	NEOS / SEOS	10:20 AM	65	WL	42	12.5	850	850	293	RM	DF-1291	72' S of NEOS
8/26/20	P-3729/P-3730	SEOS / NEOS	11:00 AM	65	WL	42	12.5	850	850	290	RM	DF-1293	249' N of SEOS
8/26/20	P-3731/P-3732	NEOS / SEOS	11:35 AM	65	WL	42	12.5	850	850	286	RM		
8/27/20	P-3733/P-3734	SEOS / NEOS	7:52 AM	52	AG	82	10	800	800	281	RM		
8/27/20	P-3735/P-3736	NEOS / SEOS	8:56 AM	60	AG	82	10	800	800	281	RM	DF-1295	26' S of NEOS
8/27/20	P-3737/P-3738	SEOS / NEOS	9:36 AM	65	AG	82	10	800	800	277	RM	DF-1297	215' N of SEOS
8/27/20	P-3739/P-3740	NEOS / SEOS	10:27 AM	65	AG	82	10	800	800	278	RM		
8/27/20	P-3741/P-3742	SEOS / NEOS	11:17 AM	70	AG	82	10	800	800	278	RM	DF-1300	130' N of SEOS
8/27/20	P-3743/P-3744	NEOS / SEOS	1:37 PM	70	AG	82	10	800	800	281	RM		
8/27/20	P-3734/P-3735	SEOS / NEOS	8:30 AM	52	WL	42	12	850	850	282	RM	DF-1296	143' N of SEOS
8/27/20	P-3736/P-3737	NEOS / SEOS	9:10 AM	60	WL	42	12	850	850	279	RM		
8/27/20	P-3738/P-3739	SEOS / NEOS	10:10 AM	65	WL	42	12	850	850	278	RM	DF-1298	52' N of SEOS
8/27/20	P-3740/P-3741	NEOS / SEOS	10:40 AM	65	WL	42	12	850	850	278	RM	DF-1299	244' S of NEOS
8/27/20	P-3742/P-3743	SEOS / NEOS	1:25 PM	70	WL	42	12	850	850	280	RM		
8/28/20	P-3745/P-3746	SEOS / NEOS	8:20 AM	65	WL	42	12	850	850	285	TT	DF-1302	156' N of SEOS
8/28/20	P-3747/P-3748	NEOS / SEOS	9:20 AM	65	WL	42	12	850	850	297	TT		
8/28/20	P-3749/P-3750	SEOS / NEOS	10:14 AM	65	WL	42	12	850	850	326	TT	DF-1304	44' N of SEOS
8/28/20	P-3751/P-3752	EEOS / WEOS	11:05 AM	65	WL	42	12	850	850	23	TT		
8/28/20	P-3752/P-3753	EEOS / WEOS	11:15 AM	65	WL	42	12	850	850	23	TT		
8/28/20	P-3751/P-3755	NEOS / SEOS	11:40 AM	65	WL	42	12	850	850	107	TT		
8/28/20	P-3752/P-3755	NEOS / SEOS	11:50 AM	65	WL	42	12	850	850	99	TT	DF-1306	35' S of NEOS
8/28/20	P-3753/P-3755	NEOS / SEOS	12:01 PM	65	WL	42	12	850	850	91	TT		
8/28/20	P-3744/P-3745	SEOS / NEOS	8:17 AM	65	AG	82	10	800	800	282	TT	DF-1301	41' N of SEOS

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Fusion Welding Summary

NewFields
Perspective. Vision. Solutions.

Seam Date	Seam Number	Seam Sections From / To	Start Time	Ambient Temp (°F)	Operator	Machine Number	Speed Setting (ft/min)	Machine Temperature		Welded Seam Length (ft)	QA Monitor	Destructive Test Sample Number	Remarks
								Setting (°F)	Actual (°F)				
8/28/20	P-3746/P-3747	NEOS / SEOS	9:05 AM	65	AG	82	10	800	800	291	TT	DF-1303	229' S of NEOS
8/28/20	P-3748/P-3749	SEOS / NEOS	9:49 AM	65	AG	82	10	800	800	308	TT		
8/28/20	P-3750/P-3751	NEOS / SEOS	10:05 AM	65	AG	82	10	800	800	105	TT	DF-1305	100' S of NEOS
8/28/20	P-3750/P-3752	NEOS / SEOS	11:07 AM	65	AG	82	10	800	800	99	TT		
8/28/20	P-3750/P-3753	NEOS / SEOS	11:16 AM	65	AG	82	10	800	800	106	TT		
8/28/20	P-3753/P-3754	EEOS / WEOS	11:33 AM	66	AG	82	10	800	800	23	TT		
8/28/20	P-3750/P-3754	NEOS / SEOS	11:34 AM	67	AG	82	10	800	800	24	TT		
8/29/20	P-3441/CAP 1	SEOS / NEOS	10:50 AM	65	WL	42	12	850	850	18	JS		CAP 1 LOCATED 306' N OF SEOS ON P-3441/P-3713
8/29/20	CAP 1/P-3713	SEOS / NEOS	10:55 AM	65	WL	42	12	850	850	18	JS		
8/29/20	P-3441/CAP 2	SEOS / NEOS	11:00 PM	65	WL	42	12	850	850	72	JS		CAP 2 LOCATED 260' N OF SEOS ON P-3441/P-3713
8/29/20	CAP 2/P-3713	SEOS / NEOS	11:25 AM	65	WL	42	12	850	850	72	JS		
8/29/20	P-3441/CAP 3	SEOS / NEOS	11:50 AM	65	WL	42	12	850	850	72	JS		CAP 3 LOCATED 190' N OF SEOS ON P-3441/P-3713
8/29/20	CAP 3/P-3713	SEOS / NEOS	12:15 PM	65	WL	42	12	850	850	72	JS	DF-1307	63' N of SEOS
8/29/20	P-3441/CAP 4	SEOS / NEOS	1:43 PM	65	WL	42	12	850	850	65	JS		CAP 4 LOCATED 120' N OF SEOS ON P-3441/P-3713
8/29/20	CAP 4/P-3713	SEOS / NEOS	1:55 PM	65	WL	42	12	850	850	65	JS		
8/29/20	P-3441/CAP 5	SEOS / NEOS	2:05 PM	65	WL	42	12	850	850	71	JS		CAP 5 LOCATED 71' N OF SEOS ON P-3441/P-3713
8/31/20	CAP 5/P-3713	SEOS / NEOS	8:38 AM	45	WL	42	12	850	850	71	TT	DF-1308	13' N of SEOS
9/1/20	P-3757/P-3758	EEOS / WEOS	8:55 AM	43	WL	42	12	850	850	23	RM		
9/1/20	P-3756/P-3759	NEOS / SEOS	9:05 AM	50	WL	42	12	850	850	70	RM		
9/1/20	P-3757/P-3759	NEOS / SEOS	9:10 AM	50	WL	42	12	850	850	26	RM		
9/1/20	P-3759/P-3760	EEOS / WEOS	9:14 AM	50	WL	42	12	850	850	23	RM		
9/1/20	P-3757/P-3760	NEOS / SEOS	9:20 AM	50	WL	42	12	850	850	55	RM		
9/1/20	P-3757/P-3761	NEOS / SEOS	9:30 AM	50	WL	42	12	850	850	33	RM		
9/1/20	P-3758/P-3761	NEOS / SEOS	9:35 AM	50	WL	42	12	850	850	45	RM		
9/1/20	P-3762/P-3763	EEOS / WEOS	9:45 AM	50	WL	42	12	850	850	23	RM		
9/1/20	P-3762/P-3764	NEOS / SEOS	9:55 AM	50	WL	42	12	850	850	84	RM		
9/1/20	P-3764/P-3765	EEOS / WEOS	10:11 AM	50	WL	42	12	850	850	23	RM		
9/1/20	P-3762/P-3765	NEOS / SEOS	10:15 AM	50	WL	42	12	850	850	23	RM	DF-1310	7' S of NEOS
9/1/20	P-3763/P-3765	NEOS / SEOS	10:20 AM	50	WL	42	12	850	850	45	RM		
9/1/20	P-3766/P-3767	NEOS / SEOS	10:40 AM	50	WL	42	12	850	850	61	RM		
9/1/20	P-3768/P-3769	NEOS / SEOS	11:15 AM	50	WL	42	12	850	850	11	RM		
9/1/20	P-3767/P-3769	NEOS / SEOS	11:17 AM	50	WL	42	12	850	850	41	RM		
9/1/20	P-3766/P-3769	NEOS / SEOS	11:20 AM	50	WL	42	12	850	850	42	RM		
9/1/20	P-3765/P-3769	NEOS / SEOS	11:28 AM	50	WL	42	12	850	850	43	RM		
9/1/20	P-3763/P-3769	NEOS / SEOS	11:33 AM	50	WL	42	12	850	850	42	RM		
9/1/20	P-3761/P-3769	NEOS / SEOS	11:38 AM	50	WL	42	12	850	850	43	RM		
9/1/20	P-3758/P-3769	NEOS / SEOS	11:44 AM	50	WL	42	12	850	850	43	RM		
9/1/20	P-3755/P-3769	NEOS / SEOS	11:48 AM	50	WL	42	12	850	850	43	RM		
9/1/20	P-3753/P-3769	NEOS / SEOS	11:53 AM	50	WL	42	12	850	850	19	RM		
9/1/20	P-3754/P-3769	NEOS / SEOS	11:55 AM	50	WL	42	12	850	850	22	RM		
9/1/20	P-3750/P-3769	NEOS / SEOS	12:02 PM	50	WL	42	12	850	850	16	RM	DF-1311	5' S of NEOS
9/1/20	P-3770/P-3771	NEOS / SEOS	1:30 PM	60	WL	42	11.5	850	850	106	RM		
9/1/20	P-3773/P-3774	NEOS / SEOS	1:42 PM	60	WL	42	11.5	850	850	79	RM		

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Fusion Welding Summary

NewFields
Perspective. Vision. Solutions.

Seam Date	Seam Number	Seam Sections From / To	Start Time	Ambient Temp (°F)	Operator	Machine Number	Speed Setting (ft/min)	Machine Temperature		Welded Seam Length (ft)	QA Monitor	Destructive Test Sample Number	Remarks
								Setting (°F)	Actual (°F)				
9/1/20	P-3774/P-3776	EEOS / WEOS	2:00 PM	60	WL	42	11.5	850	850	23	RM		
9/1/20	P-3773/P-3776	NEOS / SEOS	2:05 PM	60	WL	42	11.5	850	850	37	RM		
9/1/20	P-3775/P-3776	NEOS / SEOS	2:10 PM	60	WL	42	11.5	850	850	31	RM		
9/1/20	P-3776/P-3777	EEOS / WEOS	2:20 PM	60	WL	42	11.5	850	850	23	RM		
9/1/20	P-3775/P-3777	NEOS / SEOS	2:22 PM	60	WL	42	11.5	850	850	15	RM		
9/1/20	P-3778/P-3780	NEOS / SEOS	2:43 PM	60	WL	42	11.5	850	850	147	RM	DF-1314	144' S of NEOS
9/1/20	P-3780/P-3781	EEOS / WEOS	3:05 PM	60	WL	42	11.5	850	850	23	RM		
9/1/20	P-3778/P-3781	NEOS / SEOS	3:10 PM	60	WL	42	11.5	850	850	100	RM		
9/1/20	P-3779/P-3781	NEOS / SEOS	3:20 PM	60	WL	42	11.5	850	850	12	RM		
9/1/20	P-3781/P-3782	EEOS / WEOS	3:25 PM	60	WL	42	11.5	850	850	23	RM		
9/1/20	P-3779/P-3782	NEOS / SEOS	3:30 PM	60	WL	42	11.5	850	850	20	RM		
9/1/20	P-3755/P-3756	NEOS / SEOS	8:29 AM	43	JA	82	11	800	800	69	JS		
9/1/20	P-3756/P-3757	EEOS / WEOS	8:40 AM	43	JA	82	10	800	800	23	JS		
9/1/20	P-3755/P-3757	NEOS / SEOS	8:48 AM	43	JA	82	10	800	800	114	JS		
9/1/20	P-3755/P-3758	NEOS / SEOS	9:00 AM	43	JA	82	10	800	800	23	JS		
9/1/20	P-3760/P-3761	EEOS / WEOS	9:25 AM	43	JA	82	10	800	800	23	JS	DF-1309	16' S of NEOS
9/1/20	P-3759/P-3762	NEOS / SEOS	9:40 AM	43	JA	82	10	800	800	95	JS		
9/1/20	P-3760/P-3762	NEOS / SEOS	9:49 AM	43	JA	82	10	800	800	18	JS		
9/1/20	P-3760/P-3763	NEOS / SEOS	9:50 AM	43	JA	82	10	800	800	37	JS		
9/1/20	P-3761/P-3763	NEOS / SEOS	9:53 AM	43	JA	82	10	800	800	45	JS		
9/1/20	P-3764/P-3766	NEOS / SEOS	10:24 AM	55	JA	82	10	800	800	88	JS		
9/1/20	P-3765/P-3766	NEOS / SEOS	10:30 AM	55	JA	82	10	800	800	33	JS		
9/1/20	P-3767/P-3768	NEOS / SEOS	10:47 AM	59	JA	82	10	800	800	12	JS		
9/1/20	P-3769/P-3770	NEOS / SEOS	11:28 AM	60	JA	82	12	800	800	362	JS	DF-1312	52' S of NEOS
9/1/20	P-3771/P-3772	NEOS / SEOS	1:25 PM	65	JA	82	12	800	800	38	JS		
9/1/20	P-3772/P-3773	NEOS / SEOS	1:38 PM	65	JA	82	12	800	800	36	JS		
9/1/20	P-3771/P-3773	NEOS / SEOS	1:42 PM	65	JA	82	12	800	800	65	JS		
9/1/20	P-3770/P-3773	NEOS / SEOS	1:50 PM	65	JA	82	12	800	800	17	JS	DF-1313	11' S of NEOS
9/1/20	P-3773/P-3775	EEOS / WEOS	1:57 PM	65	JA	82	12	800	800	18	JS		
9/1/20	P-3770/P-3775	NEOS / SEOS	2:02 PM	68	JA	82	12	750	750	48	JS		
9/1/20	P-3770/P-3777	NEOS / SEOS	2:15 PM	68	JA	82	12	750	750	55	JS		
9/1/20	P-3774/P-3778	NEOS / SEOS	2:40 PM	68	JA	82	12	750	750	75	JS		
9/1/20	P-3776/P-3778	NEOS / SEOS	2:45 PM	68	JA	82	12	750	750	66	JS		
9/1/20	P-3777/P-3778	NEOS / SEOS	2:51 PM	68	JA	82	12	750	750	63	JS		
9/1/20	P-3770/P-3778	NEOS / SEOS	3:07 PM	68	JA	82	12	750	750	36	JS		
9/1/20	P-3778/P-3779	EEOS / WEOS	3:16 PM	68	JA	82	12	750	750	10	JS		
9/1/20	P-3770/P-3779	NEOS / SEOS	3:20 PM	68	JA	82	12	750	750	33	JS		
9/1/20	P-3770/P-3782	NEOS / SEOS	3:23 PM	68	JA	82	12	750	750	59	JS		
9/2/20	P-3798/P-3799	EEOS / WEOS	1:33 PM	68	AG	82	10	800	800	23	JS		
9/2/20	P-3797/P-3799	NEOS / SEOS	1:36 PM	68	AG	82	10	800	800	258	JS	DF-1321	249' S of NOES
9/2/20	P-3802/P-3803	EEOS / WEOS	2:33 PM	68	AG	82	10	800	800	23	JS		
9/2/20	P-3801/P-3803	NEOS / SEOS	2:39 PM	68	AG	82	10	800	800	102	JS		
9/2/20	P-3803/P-3804	EEOS / WEOS	2:41 PM	68	AG	82	10	800	800	23	JS		

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Fusion Welding Summary

Seam Date	Seam Number	Seam Sections From / To	Start Time	Ambient Temp (°F)	Operator	Machine Number	Speed Setting (ft/min)	Machine Temperature		Welded Seam Length (ft)	QA Monitor	Destructive Test Sample Number	Remarks
								Setting (°F)	Actual (°F)				
9/2/20	P-3801/P-3804	NEOS / SEOS	2:49 PM	68	AG	82	10	800	800	41	JS		
9/2/20	P-3804/P-3805	SEOS / NEOS	3:03 PM	68	AG	82	10	800	800	47	JS		
9/2/20	P-3803/P-3805	SEOS / NEOS	3:12 PM	68	AG	82	10	800	800	104	JS		
9/2/20	P-3802/P-3805	SEOS / NEOS	3:17 PM	68	AG	82	10	800	800	192	JS	DF-1323	121' N of SEOS
9/2/20	P-3784/P-3785	NEOS / SEOS	8:49 AM	59	AG	82	10	800	800	24	JS	DF-1316	11' S of NEOS
9/2/20	P-3783/P-3784	NEOS / SEOS	9:00 AM	59	AG	82	10	800	800	25	JS		
9/2/20	P-3783/P-3785	NEOS / SEOS	9:01 AM	59	AG	82	10	800	800	25	JS		
9/2/20	P-3783/P-3786	NEOS / SEOS	9:06 AM	59	AG	82	10	800	800	65	JS		
9/2/20	P-3785/P-3786	NEOS / SEOS	9:09 AM	59	AG	82	10	800	800	16	JS		
9/2/20	P-3783/P-3787	NEOS / SEOS	9:20 AM	59	AG	82	10	800	800	89	JS		
9/2/20	P-3788/P-3789	EEOS / WEOS	9:56 AM	59	AG	82	10	800	800	23	JS		
9/2/20	P-3787/P-3789	NEOS / SEOS	10:05 AM	59	AG	82	10	800	800	16	JS		
9/2/20	P-3783/P-3789	NEOS / SEOS	10:09 AM	59	AG	82	10	800	800	91	JS		
9/2/20	P-3783/P-3790	NEOS / SEOS	10:19 AM	59	AG	82	10	800	800	27	JS		
9/2/20	P-3790/P-3791	NEOS / SEOS	10:40 AM	64	AG	82	10	800	800	70	JS		
9/2/20	P-3791/P-3792	EEOS / WEOS	10:47 AM	64	AG	82	10	800	800	23	JS	DF-1318	10' W of EEOS
9/2/20	P-3790/P-3792	NEOS / SEOS	10:49 AM	64	AG	82	10	800	800	104	JS		
9/2/20	P-3792/P-3793	EEOS / WEOS	11:03 AM	64	AG	82	10	800	800	23	JS		
9/2/20	P-3790/P-3793	NEOS / SEOS	11:05 AM	64	AG	82	10	800	800	103	JS		
9/2/20	P-3790/P-3794	EEOS / WEOS	11:10 AM	64	AG	82	10	800	800	40	JS		
9/2/20	P-3795/P-3796	SEOS / NEOS	11:56 AM	64	AG	82	10	800	800	317	JS	DF-1320	187' N of SEOS
9/2/20	P-3797/P-3798	NEOS / SEOS	1:10 PM	68	AG	82	10	800	800	68	JS		
9/2/20	P-3782/P-3783	SEOS / NEOS	8:35 AM	55	WL	42	11.5	850	850	81	RM		
9/2/20	P-3781/P-3783	SEOS / NEOS	8:47 AM	55	WL	42	11.5	850	850	109	RM		
9/2/20	P-3780/P-3783	SEOS / NEOS	8:55 AM	55	WL	42	11.5	850	850	142	RM	DF-1315	99' N of SEOS
9/2/20	P-3785/P-3787	NEOS / SEOS	9:20 AM	55	WL	42	11.5	850	850	57	RM		
9/2/20	P-3786/P-3787	NEOS / SEOS	9:25 AM	55	WL	42	11.5	850	850	63	RM		
9/2/20	P-3787/P-3788	NEOS / SEOS	9:35 AM	55	WL	42	11.5	850	850	188	RM		
9/2/20	P-3788/P-3790	NEOS / SEOS	10:10 AM	65	WL	42	11.5	850	850	187	RM	DF-1317	119' S of NEOS
9/2/20	P-3789/P-3790	NEOS / SEOS	10:30 AM	65	WL	42	11.5	850	850	107	RM		
9/2/20	P-3793/P-3794	EEOS / WEOS	11:10 AM	65	WL	42	11.5	850	850	23	RM		
9/2/20	P-3794/P-3795	SEOS / NEOS	11:25 AM	65	WL	42	11.5	850	850	37	RM		
9/2/20	P-3793/P-3795	SEOS / NEOS	11:30 AM	65	WL	42	11.5	850	850	103	RM		
9/2/20	P-3792/P-3795	SEOS / NEOS	11:42 AM	65	WL	42	11.5	850	850	103	RM		
9/2/20	P-3791/P-3795	SEOS / NEOS	11:50 AM	65	WL	42	11.5	850	850	72	RM	DF-1319	29' N of SEOS
9/2/20	P-3796/P-3797	NEOS / SEOS	12:55 PM	65	WL	42	11.5	850	850	327	RM		
9/2/20	P-3799/P-3801	SEOS / NEOS	12:00 PM	65	WL	42	11.5	850	850	198	RM	DF-1322	70' N of SEOS
9/2/20	P-3800/P-3801	EEOS / WEOS	2:20 AM	65	WL	42	11.5	850	850	10	RM		
9/2/20	P-3799/P-3800	SEOS / NEOS	2:25 PM	65	WL	42	11.5	850	850	66	RM		
9/2/20	P-3798/P-3800	SEOS / NEOS	2:30 PM	65	WL	42	11.5	850	850	68	RM		
9/2/20	P-3800/P-3802	NEOS / SEOS	2:40 PM	65	WL	42	11.5	850	850	134	RM		
9/2/20	P-3801/P-3802	NEOS / SEOS	2:55 PM	65	WL	42	11.5	850	850	60	RM		
9/2/20	P-3805/P-3806	NEOS / SEOS	3:17 PM	65	WL	42	11.5	850	850	352	RM	DF-1324	14' S of NEOS

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Fusion Welding Summary

NewFields
Perspective. Vision. Solutions.

Seam Date	Seam Number	Seam Sections From / To	Start Time	Ambient Temp (°F)	Operator	Machine Number	Speed Setting (ft/min)	Machine Temperature		Welded Seam Length (ft)	QA Monitor	Destructive Test Sample Number	Remarks
								Setting (°F)	Actual (°F)				
9/3/20	P-3807/P-3708	SEOS / NEOS	8:45 AM	65	WL	42	12.5	850	850	361	TM	DF-1325	132' N of SEOS
9/3/20	P-3809/P-3810	NEOS / SEOS	9:27 AM	70	WL	42	12.5	850	850	377	TM	DF-1327	241' S of NEOS
9/3/20	P-3811/P-3812	SEOS / NEOS	10:20 AM	75	WL	42	12.5	850	850	393	TM	DF-1329	334' N of SEOS
9/3/20	P-3813/P-3815	NEOS / SEOS	11:00 AM	75	WL	42	12.5	850	850	388	TM		
9/3/20	P-3815/P-3816	EEOS / WEOS	11:50 AM	75	WL	42	12.5	850	850	22	TM		
9/3/20	P-3813/P-3814	EEOS / WEOS	11:55 AM	75	WL	42	12.5	850	850	22	TM	DF-1332	12' W of EEOS
9/3/20	P-3813/P-3816	NEOS / SEOS	12:00 PM	75	WL	42	12.5	850	850	14	TM		
9/3/20	P-3814/P-3816	NEOS / SEOS	12:02 PM	75	WL	42	12.5	850	850	22	TM		
9/3/20	P-3818/P-3820	SEOS / NEOS	1:20 PM	75	WL	42	12.5	850	850	61	TM		
9/3/20	P-3819/P-3820	EEOS / WEOS	1:30 PM	75	WL	42	12.5	850	850	22	TM		
9/3/20	P-3818/P-3819	SEOS / NEOS	1:30 PM	75	WL	42	12.5	850	850	300	TM		
9/3/20	P-3817/P-3818	WEOS / EEOS	2:00 PM	75	WL	42	12.5	850	850	22	TM		
9/3/20	P-3817/P-3819	SEOS / NEOS	2:00 PM	75	WL	42	12.5	850	850	89	TM	DF-1333	9' N of SEOS
9/3/20	P-3821/P-3822	EEOS / WEOS	2:15 PM	75	WL	42	12.5	850	850	22	TM		
9/3/20	P-3822/P-3823	NEOS / SEOS	2:20 PM	75	WL	42	12.5	850	850	65	TM		
9/3/20	P-3823/P-3824	EEOS / WEOS	2:30 PM	75	WL	42	12.5	850	850	22	TM		
9/3/20	P-3822/P-3824	NEOS / SEOS	2:35 PM	75	WL	42	12.5	850	850	122	TM		
9/3/20	P-3824/P-3825	EEOS / WEOS	2:51 PM	75	WL	42	12.5	850	850	22	TM		
9/3/20	P-3822/P-3825	NEOS / SEOS	2:55 PM	75	WL	42	12.5	850	850	127	TM		
9/3/20	P-3825/P-3826	EEOS / WEOS	3:10 PM	75	WL	42	12.5	850	850	22	TM		
9/3/20	P-3822/P-3826	NEOS / SEOS	3:15 PM	75	WL	42	12.5	850	850	18	TM		
9/3/20	P-3827/P-3830	SEOS / NEOS	3:25 PM	75	WL	42	12.5	850	850	44	TM		
9/3/20	P-3827/P-3829	SEOS / NEOS	3:27 PM	75	WL	42	12.5	850	850	105	TM		
9/3/20	P-3828/P-3829	EEOS / WEOS	3:40 PM	75	WL	42	12.5	850	850	22	TM	DF-1335	10' W of EEOS
9/3/20	P-3827/P-3828	SEOS / NEOS	3:45 PM	75	WL	42	12.5	850	850	61	TM		
9/3/20	P-3806/P-3807	NEOS / SEOS	8:19 AM	55	AG	82	10	800	800	355	RM		
9/3/20	P-3808/P-3809	SEOS / NEOS	9:09 AM	55	AG	82	10	800	800	371	RM	DF-1326	44' N of SEOS
9/3/20	P-3810/P-3811	NEOS / SEOS	9:54 AM	55	AG	82	10	800	800	389	RM	DF-1328	143' S of NEOS
9/3/20	P-3812/P-3813	SEOS / NEOS	10:43 AM	55	AG	82	10	800	800	395	RM	DF-1330	224' N of SEOS
9/3/20	P-3815/P-3817	NEOS / SEOS	11:33 AM	55	AG	82	10	800	800	83	RM		
9/3/20	P-3817/P-3818	EEOS / WEOS	11:43 AM	55	AG	82	10	800	800	23	RM		
9/3/20	P-3815/P-3818	NEOS / SEOS	11:47 AM	55	AG	82	10	800	800	311	RM	DF-1331	193' S of NEOS
9/3/20	P-3816/P-3818	NEOS / SEOS	12:22 PM	55	AG	82	10	800	800	44	RM		
9/3/20	P-3819/P-3820	EEOS / WEOS	1:26 PM	65	AG	82	10	800	800	23	RM		
9/3/20	P-3820/P-3822	SEOS / NEOS	1:56 PM	65	AG	82	10	800	800	67	RM		
9/3/20	P-3819/P-3822	SEOS / NEOS	2:04 PM	65	AG	82	10	800	800	266	RM	DF-1334	218' N of SEOS
9/3/20	P-3819/P-3821	SEOS / NEOS	2:33 PM	65	AG	82	10	800	800	62	RM		
9/3/20	P-3824/P-3827	NEOS / SEOS	2:47 PM	65	AG	82	10	800	800	127	RM		
9/3/20	P-3825/P-3827	NEOS / SEOS	2:59 PM	65	AG	82	10	800	800	128	RM		
9/3/20	P-3826/P-3827	NEOS / SEOS	3:13 PM	65	AG	82	10	800	800	18	RM		
9/3/20	P-3829/P-3830	EEOS / WEOS	3:13 PM	65	AG	82	10	800	800	23	RM		
9/3/20	P-3830/P-3831	SEOS / NEOS	3:29 PM	65	AG	82	10	800	800	40	RM		
9/3/20	P-3829/P-3831	SEOS / NEOS	3:34 PM	65	AG	82	10	800	800	79	RM	DF-1336	24' N of SEOS

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Fusion Welding Summary

Seam Date	Seam Number	Seam Sections From / To	Start Time	Ambient Temp (°F)	Operator	Machine Number	Speed Setting (ft/min)	Machine Temperature		Welded Seam Length (ft)	QA Monitor	Destructive Test Sample Number	Remarks
								Setting (°F)	Actual (°F)				
9/3/20	P-3831/P-3832	EEOS / WEOS	3:45 PM	65	AG	82	10	800	800	10	RM		
9/3/20	P-3829/P-3832	SEOS / NEOS	3:42 PM	65	AG	82	10	800	800	27	RM		
9/3/20	P-3831/P-3833	NEOS / SEOS	3:54 PM	65	AG	82	10	800	800	77	RM		
9/4/20	P-3834/P-3835	NEOS / SEOS	7:57 AM	52	AG	82	10	800	800	59	RM		
9/4/20	P-3835/P-3836	EEOS / WEOS	8:10 AM	52	AG	82	10	800	800	8	RM		
9/4/20	P-3836/P-3837	NEOS / SEOS	8:18 AM	52	AG	82	10	800	800	26	RM		
9/4/20	P-3835/P-3837	NEOS / SEOS	8:21 AM	52	AG	82	10	800	800	39	RM		
9/4/20	P-3837/P-3838	EEOS / WEOS	8:28 AM	52	AG	82	10	800	800	23	RM		
9/4/20	P-3835/P-3838	NEOS / SEOS	8:35 AM	52	AG	82	10	800	800	65	RM		
9/4/20	P-3837/P-3839	NEOS / SEOS	8:57 AM	55	AG	82	10	800	800	129	RM	DF-1337	81' S of NEOS
9/4/20	P-3838/P-3839	NEOS / SEOS	9:12 AM	55	AG	82	10	800	800	65	RM		
9/4/20	P-3839/P-3842	SEOS / NEOS	9:25 AM	55	AG	82	10	800	800	111	RM		
9/4/20	P-3839/P-3841	SEOS / NEOS	9:37 AM	55	AG	82	10	800	800	42	RM		
9/4/20	P-3839/P-3840	SEOS / NEOS	9:42 AM	55	AG	82	10	800	800	79	RM		
9/4/20	P-3840/P-3845	NEOS / SEOS	9:53 AM	60	AG	82	10	800	800	142	RM	DF-1339	125' S of NEOS
9/4/20	P-3841/P-3845	NEOS / SEOS	10:07 AM	60	AG	82	10	800	800	43	RM		
9/4/20	P-3842/P-3845	NEOS / SEOS	10:13 AM	60	AG	82	10	800	800	113	RM		
9/4/20	P-3843/P-3845	NEOS / SEOS	10:23 AM	60	AG	82	10	800	800	25	RM		
9/4/20	P-3842/P-3843	NEOS / SEOS	10:28 AM	60	AG	82	10	800	800	23	RM		
9/4/20	P-3839/P-3843	SEOS / NEOS	10:40 AM	60	AG	82	10	800	800	27	RM		
9/4/20	P-3848/P-3849	EEOS / WEOS	10:48 AM	60	AG	82	10	800	800	23	RM		
9/4/20	P-3847/P-3849	SEOS / NEOS	10:54 AM	60	AG	82	10	800	800	34	RM		
9/4/20	P-3847/P-3848	SEOS / NEOS	10:58 AM	60	AG	82	10	800	800	350	RM	DF-1341	165'N of SEOS
9/4/20	P-3846/P-3848	SEOS / NEOS	11:33 AM	60	AG	82	10	800	800	52	RM		
9/4/20	P-3850/P-3851	EEOS / WEOS	11:42 AM	60	AG	82	10	800	800	23	RM		
9/4/20	P-3850/P-3852	NEOS / SEOS	11:48 AM	60	AG	82	10	800	800	57	RM		
9/4/20	P-3851/P-3852	NEOS / SEOS	11:54 AM	60	AG	82	10	800	800	49	RM		
9/4/20	P-3852/P-3853	EEOS / WEOS	1:00 PM	65	AG	82	10	800	800	23	RM		
9/4/20	P-3851/P-3853	NEOS / SEOS	1:11 PM	65	AG	82	10	800	800	305	RM	DF-1343	104' S of NEOS
9/4/20	P-3856/P-3858	SEOS / NEOS	2:06 PM	70	AG	82	10	800	800	147	RM		
9/4/20	P-3857/P-3858	EEOS / WEOS	2:22 PM	70	AG	82	10	800	800	23	RM		
9/4/20	P-3856/P-3857	SEOS / NEOS	2:29 PM	70	AG	82	10	800	800	39	RM		
9/4/20	P-3855/P-3857	SEOS / NEOS	2:36 PM	70	AG	82	10	800	800	132	RM	DF-1344	60' N of SEOS
9/4/20	P-3854/P-3857	SEOS / NEOS	2:49 PM	70	AG	82	10	800	800	38	RM		
9/4/20	P-3859/P-3861	NEOS / SEOS	3:06 PM	70	AG	82	10	800	800	131	RM		
9/4/20	P-3861/P-3862	EEOS / WEOS	3:23 PM	70	AG	82	10	800	800	23	RM		
9/4/20	P-3859/P-3862	NEOS / SEOS	3:29 PM	70	AG	82	10	800	800	98	RM		
9/4/20	P-3860/P-3862	NEOS / SEOS	3:38 PM	70	AG	82	10	800	800	45	RM		
9/4/20	P-3860/P-3863	NEOS / SEOS	3:43 PM	70	AG	82	10	800	800	27	RM		
9/4/20	P-3862/P-3863	EEOS / WEOS	3:45 PM	70	AG	82	10	800	800	23	RM		
9/4/20	P-3833/P-3834	NEOS / SEOS	7:50 AM	52	WL	42	12.5	850	850	61	TM		
9/4/20	P-3831/P-3835	NEOS / SEOS	8:05 AM	55	WL	42	12.5	850	850	44	TM		
9/4/20	P-3828/P-3837	NEOS / SEOS	8:20 AM	60	WL	42	12.5	850	850	61	TM		

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Fusion Welding Summary

NewFields
Perspective. Vision. Solutions.

Seam Date	Seam Number	Seam Sections From / To	Start Time	Ambient Temp (°F)	Operator	Machine Number	Speed Setting (ft/min)	Machine Temperature		Welded Seam Length (ft)	QA Monitor	Destructive Test Sample Number	Remarks
								Setting (°F)	Actual (°F)				
9/4/20	P-3829/P-3837	NEOS / SEOS	8:35 AM	60	WL	42	12.5	850	850	4	TM		
9/4/20	P-3832/P-3836	NEOS / SEOS	8:35 AM	60	WL	42	12.5	850	850	23	TM		
9/4/20	P-3832/P-3839	NEOS / SEOS	8:47 AM	65	WL	42	12.5	850	850	6	TM		
9/4/20	P-3827/P-3839	NEOS / SEOS	8:47 AM	65	WL	42	12.5	850	850	60	TM		
9/4/20	P-3840/P-3841	EEOS / WEOS	8:58 AM	65	WL	42	12.5	850	850	22	TM		
9/4/20	P-3841/P-3842	EEOS / WEOS	9:05 AM	65	WL	42	12.5	850	850	22	TM		
9/4/20	P-3821/P-3840	NEOS / SEOS	9:20 AM	70	WL	42	12.5	850	850	6	TM		
9/4/20	P-3823/P-3840	NEOS / SEOS	9:20 AM	70	WL	42	12.5	850	850	61	TM		
9/4/20	P-3819/P-3844	NEOS / SEOS	9:35 AM	70	WL	42	12.5	850	850	7	TM		
9/4/20	P-3821/P-3844	NEOS / SEOS	9:36 AM	70	WL	42	12.5	850	850	54	TM	DF-1338	20' S of NEOS
9/4/20	P-3844/P-3845	EEOS / WEOS	9:45 AM	75	WL	42	12.5	850	850	22	TM		
9/4/20	P-3817/P-3846	NEOS / SEOS	10:10 AM	75	WL	42	12.5	850	850	3	TM		
9/4/20	P-3819/P-3846	NEOS / SEOS	10:10 AM	75	WL	42	12.5	850	850	48	TM		
9/4/20	P-3846/P-3847	EEOS / WEOS	10:20 AM	75	WL	42	12.5	850	850	22	TM		
9/4/20	P-3844/P-3847	NEOS / SEOS	10:20 AM	75	WL	42	12.5	850	850	59	TM		
9/4/20	P-3845/P-3847	NEOS / SEOS	10:35 AM	75	WL	42	12.5	850	850	322	TM	DF-1340	282' S of NEOS
9/4/20	P-3849/P-3851	SEOS / NEOS	11:20 AM	75	WL	42	12.5	850	850	28	TM		
9/4/20	P-3848/P-3851	SEOS / NEOS	11:22 AM	75	WL	42	12.5	850	850	329	TM		
9/4/20	P-3848/P-3850	SEOS / NEOS	11:55 AM	75	WL	42	12.5	850	850	68	TM		
9/4/20	P-3852/P-3854	NEOS / SEOS	1:10 PM	80	WL	42	12.5	850	850	54	TM	DF-1342	10' S of NEOS
9/4/20	P-3854/P-3855	EEOS / WEOS	1:20 PM	80	WL	42	12.5	850	850	22	TM		
9/4/20	P-3852/P-3855	NEOS / SEOS	1:25 PM	80	WL	42	12.5	850	850	20	TM		
9/4/20	P-3853/P-3855	NEOS / SEOS	1:27 PM	80	WL	42	12.5	850	850	114	TM		
9/4/20	P-3855/P-3856	EEOS / WEOS	1:40 PM	80	WL	42	12.5	850	850	22	TM		
9/4/20	P-3853/P-3856	SEOS / NEOS	1:50 PM	80	WL	42	12.5	850	850	184	TM		
9/4/20	P-3858/P-3860	NEOS / SEOS	2:32 PM	80	WL	42	12.5	850	850	74	TM	DF-1345	59' N of SEOS
9/4/20	P-3858/P-3859	NEOS / SEOS	2:50 PM	80	WL	42	12.5	850	850	68	TM		
9/4/20	P-3857/P-3859	NEOS / SEOS	2:55 PM	80	WL	42	12.5	850	850	183	TM		
9/5/20	P-3863/P-3864	SEOS / NEOS	7:39 AM	60	AG	82	10	800	800	25	TT	DF-1346	13' N of SEOS
9/5/20	P-3862/P-3864	SEOS / NEOS	7:48 AM	60	AG	82	10	800	800	141	TT		
9/5/20	P-3861/P-3864	SEOS / NEOS	7:57 AM	60	AG	82	10	800	800	104	TT		
9/5/20	P-3865/P-3867	NEOS / SEOS	8:26 AM	60	AG	82	10	800	800	92	TT		
9/5/20	P-3866/P-3867	NEOS / SEOS	8:35 AM	60	AG	82	10	800	800	123	TT		
9/5/20	P-3868/P-3869	EEOS / WEOS	8:48 AM	60	AG	82	10	800	800	23	TT	DF-1348	10' W of EEOS
9/5/20	P-3870/P-3871	EEOS / WEOS	8:55 AM	60	AG	82	10	800	800	23	TT		
9/5/20	P-3869/P-3871	SEOS / NEOS	9:02 AM	62	AG	82	10	800	800	8	TT		
9/5/20	P-3868/P-3871	SEOS / NEOS	9:04 AM	62	AG	82	10	800	800	36	TT		
9/5/20	P-3868/P-3870	SEOS / NEOS	9:08 AM	62	AG	82	10	800	800	113	TT		
9/5/20	P-3872/P-3873	NEOS / SEOS	9:25 AM	62	AG	82	10	800	800	106	TT		
9/5/20	P-3875/P-3876	SEOS / NEOS	9:48 AM	62	AG	82	10	800	800	16	TT		
9/5/20	P-3874/P-3876	SEOS / NEOS	9:50 AM	62	AG	82	10	800	800	47	TT		
9/5/20	P-3864/P-3866	SEOS / NEOS	8:00 AM	58	WL	42	11	850	850	127	TW		
9/5/20	P-3865/P-3866	EEOS / WEOS	8:20 AM	58	WL	42	11	850	850	22	TW		

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Fusion Welding Summary

NewFields
Perspective. Vision. Solutions.

Seam Date	Seam Number	Seam Sections From / To	Start Time	Ambient Temp (°F)	Operator	Machine Number	Speed Setting (ft/min)	Machine Temperature		Welded Seam Length (ft)	QA Monitor	Destructive Test Sample Number	Remarks
								Setting (°F)	Actual (°F)				
9/5/20	P-3864/P-3865	SEOS / NEOS	8:22 AM	58	WL	42	11	850	850	118	TW	DF-1347	55' N of SEOS
9/5/20	P-3867/P-3868	NEOS / SEOS	8:40 AM	58	WL	42	11	850	850	175	TW		
9/5/20	P-3867/P-3869	NEOS / SEOS	8:55 AM	58	WL	42	11	850	850	13	TW		
9/5/20	P-3871/P-3872	SEOS / NEOS	9:10 AM	58	WL	42	11	850	850	44	TW		
9/5/20	P-3870/P-3872	SEOS / NEOS	9:15 AM	60	WL	42	11	850	850	88	TW		
9/5/20	P-3873/P-3874	NEOS / SEOS	9:30 AM	60	WL	42	11	850	850	73	TW		
9/5/20	P-3874/P-3875	EEOS / WEOS	9:40 AM	60	WL	42	11	850	850	22	TW		
9/5/20	P-3873/P-3875	NEOS / SEOS	9:50 AM	60	WL	42	11	850	850	13	TW	DF-1349	13' S of NEOS
9/18/20	P-3877/P-3878	SEOS / NEOS	8:42 AM	48	AG	82	10	800	800	47	RM		
9/18/20	P-3878/P-3879	NEOS / SEOS	8:55 AM	50	AG	82	10	800	800	102	RM	DF-1351	61' S of NEOS
9/18/20	P-3879/P-3880	NEOS / SEOS	9:15 AM	50	AG	82	10	800	800	47	RM		
9/18/20	P-3879/P-3881	NEOS / SEOS	9:24 AM	50	AG	82	10	800	800	106	RM		
9/18/20	P-3880/P-3881	EEOS / WEOS	9:32 AM	50	AG	82	10	800	800	23	RM		
9/18/20	P-3881/P-3882	SEOS / NEOS	9:57 AM	50	AG	82	10	800	800	110	RM		
9/18/20	P-3880/P-3882	SEOS / NEOS	10:09 AM	50	AG	82	10	800	800	100	RM		
9/18/20	P-3883/P-3884	EEOS / WEOS	10:29 AM	50	AG	82	10	800	800	23	RM		
9/18/20	P-3882/P-3883	NEOS / SEOS	10:40 AM	50	AG	82	10	800	800	72	RM	DF-1352	43' S of NEOS
9/18/20	P-3882/P-3884	NEOS / SEOS	10:49 AM	50	AG	82	10	800	800	143	RM		
9/18/20	P-3884/P-3885	EEOS / WEOS	11:04 AM	50	AG	82	10	800	800	23	RM		
9/18/20	P-3882/P-3885	NEOS / SEOS	11:09 AM	50	AG	82	10	800	800	51	RM		
9/18/20	P-3886/P-3887	EEOS / WEOS	11:22 AM	50	AG	82	10	800	800	23	RM		
9/18/20	P-3887/P-3888	SEOS / NEOS	11:35 AM	50	AG	82	10	800	800	13	RM		
9/18/20	P-3886/P-3888	SEOS / NEOS	11:37 AM	50	AG	82	10	800	800	342	RM	DF-1354	188' N of SEOS
9/18/20	P-3888/P-3890	NEOS / SEOS	1:00 PM	60	AG	82	10	800	800	329	RM	DF-1355	316' S of NEOS
9/18/20	P-3890/P-3891	EEOS / WEOS	1:40 PM	60	AG	82	10	800	800	23	RM		
9/18/20	P-3888/P-3891	NEOS / SEOS	1:48 PM	60	AG	82	10	800	800	77	RM		
9/18/20	P-3889/P-3891	NEOS / SEOS	1:58 PM	60	AG	82	10	800	800	22	RM		
9/18/20	P-3892/P-3895	NEOS / SEOS	2:24 PM	60	AG	82	10	800	800	144	RM		
9/18/20	P-3893/P-3895	NEOS / SEOS	2:42 PM	60	AG	82	10	800	800	24	RM		
9/18/20	P-3895/P-3896	EEOS / WEOS	2:51 PM	60	AG	82	10	800	800	23	RM		
9/18/20	P-3893/P-3896	NEOS / SEOS	2:59 PM	60	AG	82	10	800	800	112	RM		
9/18/20	P-3894/P-3896	NEOS / SEOS	3:11 PM	60	AG	82	10	800	800	30	RM		
9/18/20	P-3896/P-3897	EEOS / WEOS	3:20 PM	60	AG	82	10	800	800	23	RM	DF-1357	2' W of EEOS
9/18/20	P-3894/P-3897	NEOS / SEOS	3:25 PM	60	AG	82	10	800	800	181	RM		
9/18/20	P-3604/P-3877	SEOS / NEOS	8:45 AM	48	WL	42	11.5	850	850	10	RM		
9/18/20	P-3605/P-3877	SEOS / NEOS	8:46 AM	48	WL	42	11.5	850	850	32	RM		
9/18/20	P-3605/P-3878	SEOS / NEOS	9:00 AM	48	WL	42	11.5	850	850	21	RM		
9/18/20	P-3606/P-3878	SEOS / NEOS	9:03 AM	50	WL	42	11.5	850	850	35	RM		
9/18/20	P-3606/P-3879	SEOS / NEOS	9:14 AM	50	WL	42	11.5	850	850	55	RM		
9/18/20	P-3606/P-3880	SEOS / NEOS	9:45 AM	50	WL	42	11.5	850	850	53	RM		
9/18/20	P-3606/P-3882	SEOS / NEOS	10:05 AM	50	WL	42	11.5	850	850	55	RM		
9/18/20	P-3606/P-3883	SEOS / NEOS	10:15 AM	50	WL	42	11.5	850	850	58	RM		
9/18/20	P-3606/P-3886	SEOS / NEOS	10:55 AM	50	WL	42	11.5	850	850	53	RM		

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Fusion Welding Summary

Seam Date	Seam Number	Seam Sections From / To	Start Time	Ambient Temp (°F)	Operator	Machine Number	Speed Setting (ft/min)	Machine Temperature		Welded Seam Length (ft)	QA Monitor	Destructive Test Sample Number	Remarks
								Setting (°F)	Actual (°F)				
9/18/20	P-3883/P-3886	NEOS / SEOS	11:05 AM	50	WL	42	11.5	850	850	124	RM	DF-1353	102' S of NEOS
9/18/20	P-3884/P-3886	NEOS / SEOS	11:22 AM	50	WL	42	11.5	850	850	144	RM		
9/18/20	P-3885/P-3886	NEOS / SEOS	11:40 AM	50	WL	42	11.5	850	850	27	RM		
9/18/20	P-3885/P-3887	NEOS / SEOS	11:43 AM	50	WL	42	11.5	850	850	28	RM		
9/18/20	P-3888/P-3889	EEOS / WEOS	11:50 AM	50	WL	42	11.5	850	850	23	RM		
9/18/20	P-3887/P-3889	NEOS / SEOS	11:55 AM	50	WL	42	11.5	850	850	18	RM		
9/18/20	P-3606/P-3888	SEOS / NEOS	1:12 PM	60	WL	42	11.5	850	850	55	RM		
9/18/20	P-3606/P-3890	SEOS / NEOS	1:20 PM	60	WL	42	11.5	850	850	34	RM		
9/18/20	P-3712/P-3890	SEOS / NEOS	1:50 PM	60	WL	42	11.5	850	850	14	RM		
9/18/20	P-3712/P-3892	SEOS / NEOS	1:52 PM	60	WL	42	11.5	850	850	29	RM		
9/18/20	P-3890/P-3892	NEOS / SEOS	2:02 PM	60	WL	42	11.5	850	850	125	RM	DF-1356	76' S of NEOS
9/18/20	P-3892/P-3893	EEOS / WEOS	2:20 PM	60	WL	42	11.5	850	850	23	RM		
9/18/20	P-3890/P-3893	NEOS / SEOS	2:30 PM	60	WL	42	11.5	850	850	136	RM		
9/18/20	P-3893/P-3894	EEOS / WEOS	2:45 PM	60	WL	42	11.5	850	850	23	RM		
9/18/20	P-3890/P-3894	NEOS / SEOS	2:50 PM	60	WL	42	11.5	850	850	114	RM		
9/18/20	P-3891/P-3894	NEOS / SEOS	3:06 PM	60	WL	42	11.5	850	850	101	RM		
9/19/20	P-3895/P-3898	NEOS / SEOS	7:57 AM	50	AG	82	10	800	800	28	TT		
9/19/20	P-3895/P-3899	NEOS / SEOS	8:03 AM	50	AG	82	10	800	800	85	TT		
9/19/20	P-3895/P-3901	NEOS / SEOS	8:32 AM	50	AG	82	10	800	800	44	TT		
9/19/20	P-3896/P-3901	NEOS / SEOS	8:38 AM	50	AG	82	10	800	800	40	TT		
9/19/20	P-3902/P-3903	EEOS / WEOS	8:48 AM	50	AG	82	10	800	800	23	TT		
9/19/20	P-3896/P-3903	NEOS / SEOS	9:00 AM	55	AG	82	10	800	800	81	TT	DF-1359	48' S of NEOS
9/19/20	P-3896/P-3905	NEOS / SEOS	9:34 AM	55	AG	82	10	800	800	23	TT		
9/19/20	P-3897/P-3905	NEOS / SEOS	9:37 AM	55	AG	82	10	800	800	64	TT		
9/19/20	P-3907/P-3908	NEOS / SEOS	9:53 AM	55	AG	82	10	800	800	23	TT		
9/19/20	P-3897/P-3908	NEOS / SEOS	10:05 AM	55	AG	82	10	800	800	84	TT		
9/19/20	P-3909/P-3910	EEOS / WEOS	10:31 AM	55	AG	82	10	800	800	23	TT		
9/19/20	P-3897/P-3910	SEOS / NEOS	10:45 AM	55	AG	82	10	800	800	40	TT		
9/19/20	P-3908/P-3910	SEOS / NEOS	10:51 AM	55	AG	82	10	800	800	64	TT		
9/19/20	P-3908/P-3909	SEOS / NEOS	10:56 AM	55	AG	82	10	800	800	18	TT		
9/19/20	P-3907/P-3909	SEOS / NEOS	10:58 AM	55	AG	82	10	800	800	95	TT		
9/19/20	P-3906/P-3909	SEOS / NEOS	11:08 AM	55	AG	82	10	800	800	181	TT	DF-1361	4' N of SEOS
9/19/20	P-3911/P-3913	NEOS / SEOS	11:39 AM	55	AG	82	10	800	800	276	TT		
9/19/20	P-3912/P-3913	NEOS / SEOS	12:07 PM	55	AG	82	10	800	800	18	TT	DF-1363	15' S of NEOS
9/19/20	P-3898/P-3899	NEOS / SEOS	8:05 AM	50	WL	42	12.5	850	850	19	TM		
9/19/20	P-3899/P-3900	NEOS / SEOS	8:10 AM	50	WL	42	12.5	850	850	67	TM	DF-1358	20' S of NEOS
9/19/20	P-3900/P-3901	EEOS / WEOS	8:20 AM	55	WL	42	12.5	850	850	22	TM		
9/19/20	P-3899/P-3901	NEOS / SEOS	8:28 AM	55	WL	42	12.5	850	850	15	TM		
9/19/20	P-3900/P-3902	NEOS / SEOS	8:30 AM	55	WL	42	12.5	850	850	55	TM		
9/19/20	P-3901/P-3902	NEOS / SEOS	8:45 AM	55	WL	42	12.5	850	850	98	TM		
9/19/20	P-3902/P-3904	SEOS / NEOS	8:55 AM	55	WL	42	12.5	850	850	112	TM		
9/19/20	P-3904/P-3905	EEOS / WEOS	9:20 AM	55	WL	42	12.5	850	850	22	TM		
9/19/20	P-3902/P-3905	NEOS / SEOS	9:25 AM	55	WL	42	12.5	850	850	29	TM		

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Fusion Welding Summary

NewFields
Perspective. Vision. Solutions.

Seam Date	Seam Number	Seam Sections From / To	Start Time	Ambient Temp (°F)	Operator	Machine Number	Speed Setting (ft/min)	Machine Temperature		Welded Seam Length (ft)	QA Monitor	Destructive Test Sample Number	Remarks
								Setting (°F)	Actual (°F)				
9/19/20	P-3903/P-3905	NEOS / SEOS	9:30 AM	55	WL	42	12.5	850	850	76	TM		
9/19/20	P-3906/P-3907	EEOS / WEOS	9:55 AM	60	WL	42	12.5	850	850	22	TM	DF-1360	10' W of EEOS
9/19/20	P-3905/P-3907	SEOS / NEOS	10:00 AM	60	WL	42	12.5	850	850	89	TM		
9/19/20	P-3905/P-3906	SEOS / NEOS	10:10 AM	60	WL	42	12.5	850	850	93	TM		
9/19/20	P-3904/P-3906	SEOS / NEOS	10:20 AM	60	WL	42	12.5	850	850	99	TM		
9/19/20	P-3909/P-3911	NEOS / SEOS	10:45 AM	60	WL	42	12.5	850	850	279	TM	DF-1362	177' S of NEOS
9/19/20	P-3910/P-3911	NEOS / SEOS	11:20 AM	60	WL	42	12.5	850	850	5	TM		
9/19/20	P-3911/P-3912	EEOS / WEOS	11:22 AM	60	WL	42	12.5	850	850	22	TM		
9/19/20	P-3910/P-3912	NEOS / SEOS	11:30 AM	60	WL	42	12.5	850	850	91	TM		
9/19/20	P-3913/P-3914	EEOS / WEOS	11:50 AM	60	WL	42	12.5	850	850	22	TM		
9/19/20	P-3912/P-3914	NEOS / SEOS	12:00 PM	60	WL	42	12.5	850	850	73	TM		
9/21/20	P-3914/P-3916	SEOS / NEOS	8:10 AM	48	WL	42	12.5	850	850	42	RM		
9/21/20	P-3914/P-3915	SEOS / NEOS	8:24 AM	48	WL	42	12.5	850	850	30	RM		
9/21/20	P-3913/P-3915	SEOS / NEOS	8:26 AM	48	WL	42	12.5	850	850	287	RM	DF-1364	83' N of SEOS
9/21/20	P-3917/P-3919	NEOS / SEOS	9:00 AM	55	WL	42	12.5	850	850	158	RM		
9/21/20	P-3918/P-3919	NEOS / SEOS	9:21 AM	55	WL	42	12.5	850	850	35	RM		
9/21/20	P-3919/P-3920	EEOS / WEOS	9:22 AM	55	WL	42	12.5	850	850	23	RM		
9/21/20	P-3918/P-3920	NEOS / SEOS	9:32 AM	55	WL	42	12.5	850	850	159	RM	DF-1365	50' S of NEOS
9/21/20	P-3922/P-3924	SEOS / NEOS	10:20 AM	55	WL	42	12.5	850	850	79	RM		
9/21/20	P-3923/P-3924	EEOS / WEOS	10:35 AM	55	WL	42	12.5	850	850	23	RM		
9/21/20	P-3922/P-3923	SEOS / NEOS	10:40 AM	55	WL	42	12.5	850	850	40	RM		
9/21/20	P-3921/P-3923	SEOS / NEOS	10:43 AM	55	WL	42	12.5	850	850	230	RM	DF-1367	220' N of SEOS
9/21/20	P-3925/P-3927	NEOS / SEOS	11:15 AM	55	WL	42	12.5	850	850	313	RM		
9/21/20	P-3926/P-3927	NEOS / SEOS	11:51 AM	55	WL	42	12.5	850	850	39	RM		
9/21/20	P-3928/P-3929	SEOS / NEOS	12:55 PM	60	WL	42	12.5	850	850	348	RM	DF-1370	108' N of SEOS
9/21/20	P-3915/P-3916	EEOS / WEOS	8:12 AM	48	AG	82	10	800	800	23	RM		
9/21/20	P-3916/P-3918	SEOS / NEOS	8:48 AM	48	AG	82	10	800	800	40	RM		
9/21/20	P-3915/P-3918	SEOS / NEOS	8:51 AM	55	AG	82	10	800	800	155	RM		
9/21/20	P-3917/P-3918	EEOS / WEOS	9:13 AM	55	AG	82	10	800	800	23	RM		
9/21/20	P-3915/P-3917	SEOS / NEOS	9:18 AM	55	AG	82	10	800	800	159	RM		
9/21/20	P-3919/P-3921	NEOS / SEOS	9:37 AM	55	AG	82	10	800	800	193	RM	DF-1366	67' S of NEOS
9/21/20	P-3920/P-3921	NEOS / SEOS	9:59 AM	55	AG	82	10	800	800	38	RM		
9/21/20	P-3921/P-3922	EEOS / WEOS	10:08 AM	55	AG	82	10	800	800	23	RM		
9/21/20	P-3920/P-3922	NEOS / SEOS	10:17 AM	55	AG	82	10	800	800	119	RM		
9/21/20	P-3925/P-3926	EEOS / WEOS	10:49 AM	55	AG	82	10	800	800	23	RM		
9/21/20	P-3924/P-3926	SEOS / NEOS	11:01 AM	55	AG	82	10	800	800	40	RM		
9/21/20	P-3924/P-3925	SEOS / NEOS	11:07 AM	55	AG	82	10	800	800	39	RM		
9/21/20	P-3923/P-3925	SEOS / NEOS	11:10 AM	55	AG	82	10	800	800	272	RM	DF-1368	62' N of SEOS
9/21/20	P-3927/P-3928	NEOS / SEOS	12:15 PM	55	AG	82	10	800	800	350	RM	DF-1369	260' S of NEOS
9/22/20	P-3929/P-3930	SEOS / NEOS	7:48 AM	48	WL	42	10.5	850	850	345	RM	DF-1371	230' N of SEOS
9/22/20	P-3931/P-3932	NEOS / SEOS	8:30 AM	48	WL	42	10.5	850	850	341	RM		
9/22/20	P-3933/P-3934	SEOS / NEOS	9:20 AM	55	WL	42	10.5	850	850	334	RM	DF-1373	24' N of SEOS
9/22/20	P-3935/P-3936	NEOS / SEOS	10:07 AM	55	WL	42	10.5	850	850	325	RM	DF-1375	160' S of NEOS

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Fusion Welding Summary

NewFields
Perspective. Vision. Solutions.

Seam Date	Seam Number	Seam Sections From / To	Start Time	Ambient Temp (°F)	Operator	Machine Number	Speed Setting (ft/min)	Machine Temperature		Welded Seam Length (ft)	QA Monitor	Destructive Test Sample Number	Remarks
								Setting (°F)	Actual (°F)				
9/22/20	P-3930/P-3931	SEOS / NEOS	8:10 AM	48	AG	82	10	800	800	343	RM		
9/22/20	P-3932/P-3933	NEOS / SEOS	9:00 AM	48	AG	82	10	800	800	337	RM	DF-1372	37' S of NEOS
9/22/20	P-3934/P-3935	SEOS / NEOS	9:52 AM	55	AG	82	10	800	800	330	RM	DF-1374	180' N of SEOS
9/22/20	P-3936/P-3937	NEOS / SEOS	10:37 AM	55	AG	82	10	800	800	319	RM	DF-1376	315'S of NEOS
9/23/20	P-3938/P-3939	SEOS / NEOS	9:16 AM	45	AG	82	10	800	800	313	RM		
9/23/20	P-3940/P-3941	NEOS / SEOS	10:00 AM	45	AG	82	10	800	800	311	RM	DF-1378	153' S of NEOS
9/23/20	P-3942/P-3943	SEOS / NEOS	10:58 AM	45	AG	82	10	800	800	308	RM		
9/23/20	P-3944/P-3945	NEOS / SEOS	12:53 PM	50	AG	82	10	800	800	308	RM	DF-1380	14' S of NEOS
9/23/20	P-3946/P-3948	NEOS / SEOS	2:10 PM	50	AG	82	10	800	800	80	RM		
9/23/20	P-3947/P-3948	NEOS / SEOS	2:23 PM	50	AG	82	10	800	800	83	RM		
9/23/20	P-3948/P-3949	EEOS / WEOS	2:31 PM	50	AG	82	10	800	800	23	RM	DF-1382	13' W of EEOS
9/23/20	P-3947/P-3949	NEOS / SEOS	2:35 PM	50	AG	82	10	800	800	149	RM		
9/23/20	P-3950/P-3951	EEOS / WEOS	3:15 PM	50	AG	82	10	800	800	23	RM		
9/23/20	P-3949/P-3951	NEOS / SEOS	4:16 PM	50	AG	82	10	800	800	60	RM		
9/23/20	P-3937/P-3938	SEOS / NEOS	8:50 AM	45	WL	42	10.5	850	850	314	RM	DF-1377	305' N of SEOS
9/23/20	P-3939/P-3940	NEOS / SEOS	9:32 AM	45	WL	42	10.5	850	850	311	RM		
9/23/20	P-3941/P-3942	SEOS / NEOS	10:30 AM	45	WL	42	10.5	850	850	308	RM	DF-1379	150' N of SEOS
9/23/20	P-3943/P-3944	NEOS / SEOS	11:20 AM	45	WL	42	10.5	850	850	308	RM		
9/23/20	P-3945/P-3946	NEOS / SEOS	1:20 PM	50	WL	42	10.5	850	850	79	RM	DF-1381	14' S of NEOS
9/23/20	P-3946/P-3947	EEOS / WEOS	1:45 PM	50	WL	42	10.5	850	850	23	RM		
9/23/20	P-3945/P-3947	NEOS / SEOS	1:50 PM	50	WL	42	10.5	850	850	232	RM		
9/23/20	P-3949/P-3950	SEOS / NEOS	2:55 PM	50	WL	42	10.5	850	850	83	RM		
9/23/20	P-3948/P-3950	SEOS / NEOS	3:06 PM	50	WL	42	10.5	850	850	161	RM	DF-1383	67' N of SEOS
9/24/20	P-3952/P-3953	SEOS / NEOS	8:20 AM	45	WL	42	13.2	850	850	308	TW		
9/24/20	P-3954/P-3955	NEOS / SEOS	9:00 AM	55	WL	42	13.2	850	850	137	TW	DF-1385	66'S of NEOS
9/24/20	P-3955/P-3956	WEOS / WEOS	9:20 AM	55	WL	42	13.2	850	850	16	TW		
9/24/20	P-3954/P-3956	NEOS / SEOS	9:30 AM	55	WL	42	13.2	850	850	41	TW		
9/24/20	P-3953/P-3959	SEOS / NEOS	10:14 AM	55	WL	42	13.2	850	850	59	TW		
9/24/20	P-3954/P-3959	SEOS / NEOS	10:20 AM	55	WL	42	13.2	850	850	66	TW		
9/24/20	P-3956/P-3959	SEOS / NEOS	10:25 AM	55	WL	42	13.2	850	850	37	TW		
9/24/20	P-3955/P-3959	SEOS / NEOS	10:30 AM	55	WL	42	13.2	850	850	27	TW		
9/24/20	P-3957/P-3959	SEOS / NEOS	10:35 AM	55	WL	42	13.2	850	850	63	TW		
9/24/20	P-3958/P-3959	SEOS / NEOS	10:40 AM	55	WL	42	13.2	850	850	16	TW		
9/24/20	P-3960/P-3961	NEOS / SEOS	10:55 AM	55	WL	42	13.2	850	850	127	TW	DF-1387	74'S of NEOS
9/24/20	P-3960/P-3962	NEOS / SEOS	11:16 AM	65	WL	42	13.2	850	850	121	TW		
9/24/20	P-3961/P-3962	EEOS / WEOS	11:08 AM	65	WL	42	13.2	850	850	23	TW		
9/24/20	P-3963/P-3964	NEOS / SEOS	11:43 AM	65	WL	42	13.2	850	850	168	TW		
9/24/20	P-3966/P-3967	NEOS / SEOS	1:20 PM	65	WL	42	13.2	850	850	176	TW	DF-1389	105'S of NEOS
9/24/20	P-3951/P-3952	SEOS / NEOS	7:53 AM	45	AG	82	12	800	800	69	TW		
9/24/20	P-3950/P-3952	SEOS / NEOS	8:02 AM	45	AG	82	12	800	800	239	TW	DF-1384	153' N of SEOS
9/24/20	P-3953/P-3954	NEOS / SEOS	8:39 AM	50	AG	82	10	800	800	252	TW		
9/24/20	P-3955/P-3957	SEOS / NEOS	9:27 AM	55	AG	82	10	800	800	97	TW		
9/24/20	P-3957/P-3958	SEOS / NEOS	10:33 AM	55	AG	82	10	800	800	20	TW		

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Fusion Welding Summary

Seam Date	Seam Number	Seam Sections From / To	Start Time	Ambient Temp (°F)	Operator	Machine Number	Speed Setting (ft/min)	Machine Temperature		Welded Seam Length (ft)	QA Monitor	Destructive Test Sample Number	Remarks
								Setting (°F)	Actual (°F)				
9/24/20	P-3959/P-3960	NEOS / SEOS	10:41 AM	55	AG	82	10	800	800	259	TW	DF-1386	2' S of NEOS
9/24/20	P-3961/P-3963	NEOS / SEOS	11:34 AM	65	AG	82	10	800	800	106	TW		
9/24/20	P-3962/P-3963	NEOS / SEOS	11:45 AM	65	AG	82	10	800	800	126	TW	DF-1388	126' S of NEOS
9/24/20	P-3964/P-3965	NEOS / SEOS	12:55 PM	65	AG	82	10	800	800	71	TW		
9/24/20	P-3965/P-3966	NEOS / SEOS	1:15 PM	65	AG	82	10	800	800	58	TW		
9/24/20	P-3964/P-3966	NEOS / SEOS	1:24 PM	65	AG	82	10	800	800	79	TW		
9/24/20	P-3963/P-3966	NEOS / SEOS	1:30 PM	65	AG	82	10	800	800	47	TW		
9/24/20	P-3967/P-3968	NEOS / SEOS	1:49 PM	65	AG	82	10	800	800	171	TW		

APPENDIX J.4 – GEOMEMBRANE EXTRUSION WELDING SUMMARY

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Extrusion Welding Summary

Seam Date	Seam Number	Seam Sections	Start Time	Ambient Temp (°F)	Operator	Machine Number	Pre-Heat Setting	Machine Temperature		Welded Seam Length (ft)	QA Monitor	Destructive Test Sample Number	Vacuum Test Results Pass/Fail	Remarks
		From / To						Setting (°F)	Actual (°F)					
8/29/20	P-3112/P-3713	EEOS / WEOS	10:10 AM	55	JA	25	550	550	550	22	TT		Pass	
8/29/20	P-3111/P-3714	EEOS / WEOS	10:40 AM	55	JA	25	550	550	550	21	TT	DX-263	Pass	19' W of EEOS
8/29/20	P-3110/P-3714	EEOS / WEOS	11:45 AM	55	JA	25	550	550	550	3	TT		Pass	
8/29/20	P-3110/P-3715	EEOS / WEOS	11:50 AM	55	JA	25	550	550	550	20	TT		Pass	
8/31/20	P-3109/P-3715	EEOS / WEOS	8:00 AM	45	JA	25	550	550	550	5	TT		Pass	
8/31/20	P-3109/P-3716	EEOS / WEOS	8:05 AM	45	JA	25	550	550	550	18	TT		Pass	
8/31/20	P-3108/P-3716	EEOS / WEOS	8:30 AM	48	JA	25	550	550	550	5	TT		Pass	
8/31/20	P-3108/P-3717	EEOS / WEOS	8:40 AM	48	JA	25	550	550	550	19	TT		Pass	
8/31/20	P-3107/P-3717	EEOS / WEOS	9:05 AM	50	JA	25	550	550	550	5	TT		Pass	
8/31/20	P-3107/P-3718	EEOS / WEOS	9:15 AM	50	JA	25	550	550	550	18	TT		Pass	
8/31/20	P-3106/P-3718	EEOS / WEOS	9:30 AM	50	JA	25	550	550	550	5	TT		Pass	
8/31/20	P-3106/P-3719	EEOS / WEOS	9:40 AM	50	JA	25	550	550	550	18	TT		Pass	
8/31/20	P-3105/P-3719	EEOS / WEOS	10:05 AM	55	JA	25	550	550	550	6	TT		Pass	
8/31/20	P-3105/P-3720	EEOS / WEOS	10:14 AM	55	JA	25	550	550	550	17	TT		Pass	
8/31/20	P-3104/P-3720	EEOS / WEOS	10:30 AM	58	JA	25	550	550	550	6	TT		Pass	
8/31/20	P-3104/P-3721	EEOS / WEOS	10:40 AM	58	JA	25	550	550	550	17	TT		Pass	
8/31/20	P-3103/P-3721	EEOS / WEOS	10:50 AM	58	JA	25	550	550	550	6	TT		Pass	
8/31/20	P-3103/P-3722	EEOS / WEOS	11:24 AM	60	JA	25	550	550	550	17	TT		Pass	
8/31/20	P-3102/P-3722	EEOS / WEOS	11:30 AM	60	JA	25	550	550	550	7	TT		Pass	
8/31/20	P-3102/P-3723	EEOS / WEOS	11:40 AM	60	JA	25	550	550	550	16	TT		Pass	
8/31/20	P-3101/P-3723	EEOS / WEOS	11:50 AM	60	JA	25	550	550	550	7	TT	DX-264	Pass	3' W of EEOS
8/31/20	P-3101/P-3724	EEOS / WEOS	1:40 PM	60	JA	25	500	500	500	16	TT		Pass	
8/31/20	P-3100/P-3724	EEOS / WEOS	1:45 PM	60	JA	25	500	500	500	7	TT		Pass	
8/31/20	P-3100/P-3725	EEOS / WEOS	1:55 PM	60	JA	25	500	500	500	17	TT		Pass	
8/31/20	P-3099/P-3725	EEOS / WEOS	2:10 PM	60	JA	25	500	500	500	7	TT		Pass	
8/31/20	P-3099/P-3726	EEOS / WEOS	2:25 PM	60	JA	25	500	500	500	16	TT		Pass	
8/31/20	P-3098/P-3726	EEOS / WEOS	2:45 PM	60	JA	25	500	500	500	7	TT		Pass	
8/31/20	P-3098/P-3727	EEOS / WEOS	2:47 PM	60	JA	25	500	500	500	16	TT		Pass	
8/31/20	P-3097/P-3727	EEOS / WEOS	3:00 PM	60	JA	25	500	500	500	8	TT		Pass	
8/31/20	P-3097/P-3728	EEOS / WEOS	3:11 PM	60	JA	25	500	500	500	15	TT		Pass	
8/31/20	P-3096/P-3728	EEOS / WEOS	3:20 PM	60	JA	25	500	500	500	8	TT		Pass	
8/31/20	P-3096/P-3729	EEOS / WEOS	3:33 PM	60	JA	25	500	500	500	15	TT		Pass	
8/31/20	P-3095/P-3729	EEOS / WEOS	3:40 PM	60	JA	25	500	500	500	8	TT		Pass	
8/31/20	P-3095/P-3730	EEOS / WEOS	3:55 PM	60	JA	25	500	500	500	15	TT		Pass	
8/31/20	P-3094/P-3730	EEOS / WEOS	4:15 PM	60	JA	25	500	500	500	8	TT		Pass	
8/31/20	P-3091/P-3733	EEOS / WEOS	3:12 PM	60	WL	49	500	500	500	8	RM		Pass	
8/31/20	P-3091/P-3734	EEOS / WEOS	3:20 PM	60	WL	49	500	500	500	15	RM		Pass	

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Extrusion Welding Summary

Seam Date	Seam Number	Seam Sections	Start Time	Ambient Temp (°F)	Operator	Machine Number	Pre-Heat Setting	Machine Temperature		Welded Seam Length (ft)	QA Monitor	Destructive Test Sample Number	Vacuum Test Results Pass/Fail	Remarks
		From / To						Setting (°F)	Actual (°F)					
8/31/20	P-3090/P-3734	EEOS / WEOS	3:28 PM	60	WL	49	500	500	500	8	RM		Pass	
8/31/20	P-3090/P-3735	EEOS / WEOS	3:35 PM	60	WL	49	500	500	500	15	RM	DX-265	Pass	3' E of WEOS
8/31/20	P-3087/P-3735	EEOS / WEOS	3:45 PM	60	WL	49	500	500	500	8	RM		Pass	
8/31/20	P-3086/P-3736	EEOS / WEOS	3:58 PM	60	WL	49	500	500	500	23	RM		Pass	
8/31/20	P-3085/P-3737	EEOS / WEOS	4:25 PM	60	WL	49	500	500	500	23	RM		Pass	
9/11/20	P-3068/P-3769	EEOS / WEOS	10:49 AM	40	WL	49	550	550	550	17	TT		Pass	
9/11/20	P-3067/P-3769	EEOS / WEOS	10:55 AM	40	WL	49	550	550	550	7	TT		Pass	
9/11/20	P-3067/P-3770	EEOS / WEOS	11:15 AM	40	WL	49	550	550	550	17	TT		Pass	
9/11/20	P-3066/P-3770	EEOS / WEOS	11:20 AM	40	WL	49	550	550	550	9	TT		Pass	
9/11/20	P-3066/P-3783	EEOS / WEOS	11:30 AM	40	WL	49	550	550	550	16	TT		Pass	
9/11/20	P-3065/P-3783	EEOS / WEOS	11:45 AM	40	WL	49	550	550	550	8	TT		Pass	
9/11/20	P-3064/P-3790	EEOS / WEOS	12:00 PM	40	WL	49	550	550	550	16	TT		Pass	
9/11/20	P-3064/P-3794	EEOS / WEOS	1:10 PM	45	WL	49	550	550	550	9	TT		Pass	
9/11/20	P-3063/P-3794	EEOS / WEOS	1:30 PM	45	WL	49	550	550	550	14	TT		Pass	
9/11/20	P-3063/P-3795	EEOS / WEOS	1:58 PM	45	WL	49	550	550	550	11	TT		Pass	
9/11/20	P-3061/P-3795	EEOS / WEOS	2:00 PM	45	WL	49	550	550	550	12	TT		Pass	
9/11/20	P-3061/P-3796	EEOS / WEOS	2:21 PM	45	WL	49	550	550	550	11	TT	DX-267	Pass	7' W of EEOS
9/11/20	P-3060/P-3796	EEOS / WEOS	3:00 PM	45	WL	49	550	550	550	12	TT		Pass	
9/11/20	P-3060/P-3797	EEOS / WEOS	3:31 PM	45	WL	49	550	550	550	11	TT		Pass	
9/11/20	P-3058/P-3797	EEOS / WEOS	3:40 PM	45	WL	49	550	550	550	12	TT		Pass	
9/11/20	P-3058/P-3799	EEOS / WEOS	3:55 PM	45	WL	49	550	550	550	11	TT		Pass	
9/11/20	P-3057/P-3799	EEOS / WEOS	4:05 PM	45	WL	49	550	550	550	13	TT		Pass	
9/11/20	P-3057/P-3801	EEOS / WEOS	4:25 PM	45	WL	49	550	550	550	10	TT		Pass	
9/11/20	P-3056/P-3801	EEOS / WEOS	4:35 PM	45	WL	49	550	550	550	13	TT		Pass	
9/11/20	P-3094/P-3731	EEOS / WEOS	9:20 AM	35	JA	25	550	550	550	15	TT		Pass	
9/11/20	P-3093/P-3731	EEOS / WEOS	9:30 AM	35	JA	25	550	550	550	8	TT		Pass	
9/11/20	P-3093/P-3732	EEOS / WEOS	9:40 AM	35	JA	25	550	550	550	15	TT		Pass	
9/11/20	P-3092/P-3732	EEOS / WEOS	9:50 AM	35	JA	25	550	550	550	8	TT		Pass	
9/11/20	P-3092/P-3733	EEOS / WEOS	10:47 AM	40	JA	25	550	550	550	15	TT		Pass	
9/11/20	P-3083/P-3738	EEOS / WEOS	11:10 AM	40	JA	25	550	550	550	23	TT		Pass	
9/11/20	P-3082/P-3739	EEOS / WEOS	11:15 AM	40	JA	25	550	550	550	23	TT		Pass	
9/11/20	P-3080/P-3740	EEOS / WEOS	11:49 AM	40	JA	25	550	550	550	23	TT		Pass	
9/11/20	P-3079/P-3741	EEOS / WEOS	1:08 PM	45	JA	25	550	550	550	22	TT		Pass	
9/11/20	P-3077/P-3742	EEOS / WEOS	1:36 PM	45	JA	25	550	550	550	24	TT		Pass	
9/11/20	P-3076/P-3743	EEOS / WEOS	2:12 PM	45	JA	25	550	550	550	23	TT		Pass	
9/11/20	P-3075/P-3744	EEOS / WEOS	2:35 PM	45	JA	25	550	550	550	22	TT	DX-266	Pass	18' W of EEOS
9/11/20	P-3074/P-3745	EEOS / WEOS	2:51 PM	45	JA	25	550	550	550	23	TT		Pass	

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Extrusion Welding Summary

Seam Date	Seam Number	Seam Sections	Start Time	Ambient Temp (°F)	Operator	Machine Number	Pre-Heat Setting	Machine Temperature		Welded Seam Length (ft)	QA Monitor	Destructive Test Sample Number	Vacuum Test Results Pass/Fail	Remarks
		From / To						Setting (°F)	Actual (°F)					
9/11/20	P-3073/P-3746	EEOS / WEOS	3:08 PM	45	JA	25	550	550	550	16	TT		Pass	
9/11/20	P-3072/P-3746	EEOS / WEOS	3:36 PM	45	JA	25	550	550	550	7	TT		Pass	
9/11/20	P-3072/P-3747	EEOS / WEOS	3:42 PM	45	JA	25	550	550	550	10	TT		Pass	
9/11/20	P-3071/P-3747	EEOS / WEOS	3:45 PM	45	JA	25	550	550	550	13	TT		Pass	
9/11/20	P-3071/P-3748	EEOS / WEOS	3:56 PM	45	JA	25	550	550	550	14	TT		Pass	
9/11/20	P-3070/P-3748	EEOS / WEOS	4:05 PM	45	JA	25	550	550	550	12	TT		Pass	
9/11/20	P-3070/P-3749	EEOS / WEOS	4:13 PM	45	JA	25	550	550	550	12	TT		Pass	
9/11/20	P-3069/P-3749	EEOS / WEOS	4:20 PM	45	JA	25	550	550	550	13	TT		Pass	
9/11/20	P-3069/P-3750	EEOS / WEOS	4:30 PM	45	JA	25	550	550	550	11	TT		Pass	
9/11/20	P-3068/P-3750	EEOS / WEOS	4:37 PM	45	JA	25	550	550	550	7	TT		Pass	
9/12/20	P-3056/P-3804	EEOS / WEOS	8:07 AM	45	WL	49	550	550	550	10	TT		Pass	
9/12/20	P-3055/P-3804	EEOS / WEOS	8:10 AM	45	WL	49	550	550	550	14	TT		Pass	
9/12/20	P-3055/P-3805	EEOS / WEOS	8:25 AM	45	WL	49	550	550	550	9	TT		Pass	
9/12/20	P-3054/P-3805	EEOS / WEOS	8:40 AM	50	WL	49	550	550	550	15	TT		Pass	
9/12/20	P-3054/P-3806	EEOS / WEOS	8:55 AM	50	WL	49	550	550	550	9	TT		Pass	
9/12/20	P-3053/P-3806	EEOS / WEOS	9:00 AM	50	WL	49	550	550	550	15	TT		Pass	
9/12/20	P-3053/P-3807	EEOS / WEOS	9:10 AM	50	WL	49	550	550	550	8	TT		Pass	
9/12/20	P-3052/P-3807	EEOS / WEOS	9:15 AM	50	WL	49	550	550	550	15	TT		Pass	
9/12/20	P-3052/P-3808	EEOS / WEOS	9:25 AM	50	WL	49	550	550	550	8	TT		Pass	
9/12/20	P-3051/P-3808	EEOS / WEOS	9:35 AM	50	WL	49	550	550	550	17	TT		Pass	
9/12/20	P-3051/P-3809	EEOS / WEOS	10:20 AM	55	WL	49	550	550	550	6	TT		Pass	
9/12/20	P-3050/P-3809	EEOS / WEOS	10:40 AM	55	WL	49	550	550	550	17	TT		Pass	
9/12/20	P-3050/P-3810	EEOS / WEOS	11:00 AM	55	WL	49	550	550	550	6	TT		Pass	
9/12/20	P-3049/P-3810	EEOS / WEOS	11:05 AM	55	WL	49	550	550	550	18	TT		Pass	
9/12/20	P-3049/P-3811	EEOS / WEOS	11:10 AM	55	WL	49	550	550	550	5	TT		Pass	
9/12/20	P-3039/P-3811	EEOS / WEOS	11:15 AM	55	WL	49	550	550	550	19	TT	DX-268	Pass	15' W of EEOS
9/12/20	P-3039/P-3812	EEOS / WEOS	11:33 AM	55	WL	49	550	550	550	4	TT		Pass	
9/12/20	P-3038/P-3812	EEOS / WEOS	11:40 AM	55	WL	49	550	550	550	20	TT		Pass	
9/16/20	P-2989/P-3876	WEOS / EEOS	8:36 AM	52	AA	25	550	550	550	9	TT		Pass	
9/16/20	P-2989/P-3875	WEOS / EEOS	8:45 AM	52	AA	25	550	550	550	15	TT		Pass	
9/16/20	P-2988/P-3875	WEOS / EEOS	8:50 AM	52	AA	25	550	550	550	8	TT		Pass	
9/16/20	P-2988/P-2973	WEOS / EEOS	9:05 AM	52	AA	25	550	550	550	15	TT		Pass	
9/16/20	P-2986/P-3873	WEOS / EEOS	9:15 AM	52	AA	25	550	550	550	8	TT		Pass	
9/16/20	P-2986/P-3872	WEOS / EEOS	9:30 AM	52	AA	25	550	550	550	15	TT		Pass	
9/16/20	P-2985/P-3872	WEOS / EEOS	9:35 AM	55	AA	25	550	550	550	9	TT		Pass	
9/16/20	P-2985/P-3871	WEOS / EEOS	9:43 AM	55	AA	25	550	550	550	14	TT		Pass	
9/16/20	P-2987/P-3871	WEOS / EEOS	10:10 AM	55	AA	25	550	550	550	8	TT		Pass	

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Extrusion Welding Summary

Seam Date	Seam Number	Seam Sections	Start Time	Ambient Temp (°F)	Operator	Machine Number	Pre-Heat Setting	Machine Temperature		Welded Seam Length (ft)	QA Monitor	Destructive Test Sample Number	Vacuum Test Results Pass/Fail	Remarks
		From / To						Setting (°F)	Actual (°F)					
9/16/20	P-2987/P-3869	WEOS / EEOS	10:20 AM	55	AA	25	550	550	550	15	TT		Pass	
9/16/20	P-2990/P-3869	WEOS / EEOS	10:25 AM	55	AA	25	550	550	550	9	TT		Pass	
9/16/20	P-2990/P-3867	WEOS / EEOS	10:33 AM	55	AA	25	550	550	550	15	TT		Pass	
9/16/20	P-2993/P-3867	WEOS / EEOS	10:45 AM	55	AA	25	550	550	550	9	TT		Pass	
9/16/20	P-2993/P-3866	WEOS / EEOS	11:03 AM	55	AA	25	550	550	550	14	TT		Pass	
9/16/20	P-2997/P-3866	WEOS / EEOS	11:10 AM	55	AA	25	550	550	550	9	TT		Pass	
9/16/20	P-2997/P-3864	WEOS / EEOS	11:18 AM	55	AA	25	550	550	550	14	TT		Pass	
9/16/20	P-2999/P-3864	WEOS / EEOS	11:28 AM	55	AA	25	550	550	550	10	TT	DX-269	Pass	3' E of WEOS
9/16/20	P-2999/P-3863	WEOS / EEOS	11:35 AM	55	AA	25	550	550	550	14	TT		Pass	
9/16/20	P-3000/P-3863	WEOS / EEOS	1:20 PM	60	AA	25	550	550	550	10	TT		Pass	
9/16/20	P-3000/P-3860	WEOS / EEOS	1:30 PM	60	AA	25	550	550	550	13	TT		Pass	
9/16/20	P-3002/P-3860	WEOS / EEOS	1:35 PM	60	AA	25	550	550	550	10	TT		Pass	
9/16/20	P-3002/P-3858	WEOS / EEOS	1:50 PM	60	AA	25	550	550	550	13	TT		Pass	
9/16/20	P-3004/P-3858	WEOS / EEOS	2:00 PM	60	AA	25	550	550	550	10	TT		Pass	
9/16/20	P-3004/P-3856	WEOS / EEOS	2:20 PM	60	AA	25	550	550	550	12	TT		Pass	
9/16/20	P-3005/P-3856	WEOS / EEOS	2:30 PM	60	AA	25	550	550	550	10	TT		Pass	
9/16/20	P-3005/P-3853	WEOS / EEOS	2:45 PM	60	AA	25	550	550	550	13	TT		Pass	
9/16/20	P-3006/P-3853	WEOS / EEOS	2:50 PM	60	AA	25	550	550	550	10	TT		Pass	
9/16/20	P-3006/P-3851	WEOS / EEOS	10:10 AM	55	JLO	44	550	550	550	13	TT		Pass	
9/16/20	P-3007/P-3851	WEOS / EEOS	10:30 AM	55	JLO	44	550	550	550	10	TT		Pass	
9/16/20	P-3007/P-3849	WEOS / EEOS	10:45 AM	55	JLO	44	550	550	550	13	TT		Pass	
9/16/20	P-3008/P-3849	WEOS / EEOS	11:00 AM	55	JLO	44	550	550	550	11	TT		Pass	
9/16/20	P-3008/P-3847	WEOS / EEOS	11:05 AM	55	JLO	44	550	550	550	12	TT		Pass	
9/16/20	P-3009/P-3847	WEOS / EEOS	11:09 AM	55	JLO	44	550	550	550	11	TT		Pass	
9/16/20	P-3009/P-3845	WEOS / EEOS	11:20 AM	55	JLO	44	550	550	550	13	TT		Pass	
9/16/20	P-3010/P-3845	WEOS / EEOS	11:25 AM	55	JLO	44	550	550	550	11	TT		Pass	
9/16/20	P-3010/P-3843	WEOS / EEOS	11:35 AM	55	JLO	44	550	550	550	12	TT	DX-270	Pass	7' E of WEOS
9/16/20	P-3011/P-3843	WEOS / EEOS	11:40 AM	55	JLO	44	550	550	550	11	TT		Pass	
9/16/20	P-3011/P-3839	WEOS / EEOS	1:27 PM	60	JLO	44	550	550	550	12	TT		Pass	
9/16/20	P-3012/P-3839	WEOS / EEOS	1:35 PM	60	JLO	44	550	550	550	11	TT		Pass	
9/16/20	P-3012/P-3838	WEOS / EEOS	1:41 PM	60	JLO	44	550	550	550	12	TT		Pass	
9/16/20	P-3013/P-3838	WEOS / EEOS	1:50 PM	60	JLO	44	550	550	550	11	TT		Pass	
9/16/20	P-3013/P-3835	WEOS / EEOS	1:58 PM	60	JLO	44	550	550	550	12	TT		Pass	
9/16/20	P-3014/P-3835	WEOS / EEOS	2:06 PM	60	JLO	44	550	550	550	11	TT		Pass	
9/16/20	P-3014/P-3834	WEOS / EEOS	2:26 PM	60	JLO	44	550	550	550	11	TT		Pass	
9/16/20	P-3015/P-3834	WEOS / EEOS	2:30 PM	60	JLO	44	550	550	550	11	TT		Pass	
9/16/20	P-3015/P-3833	WEOS / EEOS	2:40 PM	60	JLO	44	550	550	550	10	TT		Pass	

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Extrusion Welding Summary

Seam Date	Seam Number	Seam Sections	Start Time	Ambient Temp (°F)	Operator	Machine Number	Pre-Heat Setting	Machine Temperature		Welded Seam Length (ft)	QA Monitor	Destructive Test Sample Number	Vacuum Test Results Pass/Fail	Remarks
		From / To						Setting (°F)	Actual (°F)					
9/16/20	P-3016/P-3833	WEOS / EEOS	2:45 PM	60	JLO	44	550	550	550	14	TT		Pass	
9/16/20	P-3038/P-3814	EEOS / WEOS	10:00 AM	55	WL	49	500	500	500	3	TT		Pass	
9/16/20	P-3037/P-3814	EEOS / WEOS	10:02 AM	55	WL	49	500	500	500	21	TT		Pass	
9/16/20	P-3036/P-3816	EEOS / WEOS	10:10 AM	55	WL	49	500	500	500	23	TT		Pass	
9/16/20	P-3035/P-3818	EEOS / WEOS	10:45 AM	55	WL	49	500	500	500	23	TT		Pass	
9/16/20	P-3034/P-3820	EEOS / WEOS	11:10 AM	55	WL	49	500	500	500	24	TT		Pass	
9/16/20	P-3033/P-3822	EEOS / WEOS	11:55 AM	55	WL	49	500	500	500	23	TT		Pass	
9/16/20	P-3024/P-3826	EEOS / WEOS	1:05 PM	60	WL	49	500	500	500	20	TT	DX-271	Pass	17' W of EEOS
9/16/20	P-3023/P-3826	EEOS / WEOS	1:15 PM	60	WL	49	500	500	500	3	TT		Pass	
9/16/20	P-3023/P-3827	EEOS / WEOS	1:22 PM	60	WL	49	500	500	500	21	TT		Pass	
9/16/20	P-3022/P-3827	EEOS / WEOS	2:00 PM	60	WL	49	500	500	500	2	TT		Pass	
9/16/20	P-3022/P-3830	EEOS / WEOS	2:10 PM	60	WL	49	500	500	500	17	TT		Pass	
9/16/20	P-3020/P-3830	EEOS / WEOS	2:25 PM	60	WL	49	500	500	500	7	TT		Pass	
9/16/20	P-3020/P-3831	EEOS / WEOS	2:30 PM	60	WL	49	500	500	500	17	TT		Pass	
9/16/20	P-3016/P-3831	EEOS / WEOS	2:45 PM	60	WL	49	500	500	500	8	TT		Pass	
9/25/20	P-3441/P-3877	EEOS / WEOS	8:23 AM	50	AA	25	550	550	550	9	TT		Pass	
9/25/20	P-3713/P-3877	EEOS / WEOS	8:27 AM	50	AA	25	550	550	550	13	TT		Pass	
9/25/20	P-3713/P-3878	EEOS / WEOS	8:35 AM	50	AA	25	550	550	550	11	TT		Pass	
9/25/20	P-3714/P-3878	EEOS / WEOS	8:40 AM	52	AA	25	550	550	550	13	TT		Pass	
9/25/20	P-3714/P-3879	EEOS / WEOS	8:50 AM	52	AA	25	550	550	550	11	TT		Pass	
9/25/20	P-3717/P-3879	EEOS / WEOS	9:00 AM	52	AA	25	550	550	550	13	TT		Pass	
9/25/20	P-3717/P-3881	EEOS / WEOS	9:15 AM	52	AA	25	550	550	550	4	TT		Pass	
9/25/20	P-3718/P-3881	EEOS / WEOS	9:20 AM	52	AA	25	550	550	550	19	TT		Pass	
9/25/20	P-3718/P-3882	EEOS / WEOS	9:30 AM	55	AA	25	550	550	550	4	TT		Pass	
9/25/20	P-3719/P-3882	EEOS / WEOS	9:35 AM	55	AA	25	550	550	550	20	TT		Pass	
9/25/20	P-3720/P-3885	EEOS / WEOS	9:45 AM	55	AA	25	550	550	550	23	TT		Pass	
9/25/20	P-3721/P-3887	EEOS / WEOS	10:00 AM	58	AA	25	550	550	550	24	TT		Pass	
9/25/20	P-3722/P-3889	EEOS / WEOS	10:20 AM	58	AA	25	550	550	550	23	TT		Pass	
9/25/20	P-3723/P-3891	EEOS / WEOS	10:55 AM	60	AA	25	550	550	550	23	TT		Pass	
9/25/20	P-3724/P-3894	EEOS / WEOS	11:12 AM	60	AA	25	550	550	550	23	TT		Pass	
9/25/20	P-3725/P-3897	EEOS / WEOS	11:20 AM	60	AA	25	550	550	550	23	TT		Pass	
9/25/20	P-3726/P-3910	EEOS / WEOS	1:15 PM	70	AA	25	550	550	550	12	TT	DX-272	Pass	5' W of EEOS
9/25/20	P-3726/P-3912	EEOS / WEOS	1:25 PM	70	AA	25	550	550	550	12	TT		Pass	
9/25/20	P-3727/P-3912	EEOS / WEOS	1:45 PM	70	AA	25	550	550	550	12	TT		Pass	
9/25/20	P-3727/P-3914	EEOS / WEOS	2:00 PM	70	AA	25	550	550	550	11	TT		Pass	
9/25/20	P-3728/P-3914	EEOS / WEOS	2:07 PM	70	AA	25	550	550	550	13	TT		Pass	
9/25/20	P-3728/P-3916	EEOS / WEOS	2:16 PM	70	AA	25	550	550	550	11	TT		Pass	

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Extrusion Welding Summary

Seam Date	Seam Number	Seam Sections	Start Time	Ambient Temp (°F)	Operator	Machine Number	Pre-Heat Setting	Machine Temperature		Welded Seam Length (ft)	QA Monitor	Destructive Test Sample Number	Vacuum Test Results Pass/Fail	Remarks
		From / To						Setting (°F)	Actual (°F)					
9/25/20	P-3729/P-3916	EEOS / WEOS	2:25 PM	70	AA	25	550	550	550	13	TT		Pass	
9/25/20	P-3729/P-3918	EEOS / WEOS	3:00 PM	70	AA	25	550	550	550	10	TT		Pass	
9/25/20	P-3730/P-3918	EEOS / WEOS	3:05 PM	70	AA	25	550	550	550	13	TT		Pass	
9/25/20	P-3730/P-3920	EEOS / WEOS	3:15 PM	70	AA	25	550	550	550	10	TT		Pass	
9/25/20	P-3731/P-3920	EEOS / WEOS	3:23 PM	70	AA	25	550	550	550	14	TT		Pass	
9/25/20	P-3731/P-3922	EEOS / WEOS	3:32 PM	70	AA	25	550	550	550	10	TT		Pass	
9/25/20	P-3732/P-3922	EEOS / WEOS	3:45 PM	70	AA	25	550	550	550	14	TT		Pass	
9/25/20	P-3749/P-3941	WEOS / EEOS	8:20 AM	50	WL	49	500	500	500	19	TT		Pass	
9/25/20	P-3748/P-3941	WEOS / EEOS	8:45 AM	52	WL	49	500	500	500	5	TT		Pass	
9/25/20	P-3748/P-3940	WEOS / EEOS	8:50 AM	52	WL	49	500	500	500	18	TT		Pass	
9/25/20	P-3747/P-3940	WEOS / EEOS	8:55 AM	52	WL	49	500	500	500	6	TT		Pass	
9/25/20	P-3747/P-3939	WEOS / EEOS	9:05 AM	52	WL	49	500	500	500	17	TT		Pass	
9/25/20	P-3746/P-3939	WEOS / EEOS	9:10 AM	52	WL	49	500	500	500	6	TT		Pass	
9/25/20	P-3746/P-3938	WEOS / EEOS	9:20 AM	52	WL	49	500	500	500	17	TT		Pass	
9/25/20	P-3745/P-3938	WEOS / EEOS	9:30 AM	55	WL	49	500	500	500	6	TT		Pass	
9/25/20	P-3745/P-3937	WEOS / EEOS	9:35 AM	55	WL	49	500	500	500	16	TT		Pass	
9/25/20	P-3944/P-3937	WEOS / EEOS	9:45 AM	55	WL	49	500	500	500	7	TT		Pass	
9/25/20	P-3744/P-3936	WEOS / EEOS	10:05 AM	58	WL	49	500	500	500	16	TT		Pass	
9/25/20	P-3743/P-3936	WEOS / EEOS	10:10 AM	58	WL	49	500	500	500	8	TT		Pass	
9/25/20	P-3743/P-3935	WEOS / EEOS	10:30 AM	58	WL	49	500	500	500	15	TT		Pass	
9/25/20	P-3742/P-3935	WEOS / EEOS	10:45 AM	58	WL	49	500	500	500	8	TT		Pass	
9/25/20	P-3742/P-3934	WEOS / EEOS	10:55 AM	60	WL	49	500	500	500	15	TT		Pass	
9/25/20	P-3741/P-3934	WEOS / EEOS	11:00 AM	60	WL	49	500	500	500	8	TT		Pass	
9/25/20	P-3741/P-3933	WEOS / EEOS	11:25 AM	60	WL	49	500	500	500	15	TT		Pass	
9/25/20	P-3740/P-3933	WEOS / EEOS	11:35 AM	60	WL	49	500	500	500	9	TT		Pass	
9/25/20	P-3740/P-3932	WEOS / EEOS	11:40 AM	60	WL	49	500	500	500	15	TT		Pass	
9/25/20	P-3739/P-3932	WEOS / EEOS	12:40 PM	70	WL	49	500	500	500	9	TT		Pass	
9/25/20	P-3739/P-3931	WEOS / EEOS	12:55 PM	70	WL	49	500	500	500	14	TT	DX-273	Pass	6' E of WEOS
9/25/20	P-3738/P-3931	WEOS / EEOS	1:10 PM	70	WL	49	500	500	500	9	TT		Pass	
9/25/20	P-3738/P-3930	WEOS / EEOS	1:14 PM	70	WL	49	500	500	500	14	TT		Pass	
9/25/20	P-3737/P-3930	WEOS / EEOS	1:30 PM	70	WL	49	500	500	500	9	TT		Pass	
9/25/20	P-3737/P-3929	WEOS / EEOS	1:50 PM	70	WL	49	500	500	500	14	TT		Pass	
9/25/20	P-3736/P-3929	WEOS / EEOS	2:00 PM	70	WL	49	500	500	500	10	TT		Pass	
9/25/20	P-3736/P-3928	WEOS / EEOS	2:12 PM	70	WL	49	500	500	500	13	TT		Pass	
9/25/20	P-3735/P-3928	WEOS / EEOS	2:30 PM	70	WL	49	500	500	500	10	TT		Pass	
9/25/20	P-3735/P-3927	WEOS / EEOS	2:45 PM	70	WL	49	500	500	500	14	TT		Pass	
9/25/20	P-3734/P-3927	WEOS / EEOS	2:50 PM	70	WL	49	500	500	500	10	TT		Pass	

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Extrusion Welding Summary

Seam Date	Seam Number	Seam Sections	Start Time	Ambient Temp (°F)	Operator	Machine Number	Pre-Heat Setting	Machine Temperature		Welded Seam Length (ft)	QA Monitor	Destructive Test Sample Number	Vacuum Test Results Pass/Fail	Remarks
		From / To						Setting (°F)	Actual (°F)					
9/25/20	P-3734/P-3926	WEOS / EEOS	3:00 PM	70	WL	49	500	500	500	14	TT		Pass	
9/25/20	P-3733/P-3926	WEOS / EEOS	3:10 PM	70	WL	49	500	500	500	9	TT		Pass	
9/25/20	P-3733/P-3924	WEOS / EEOS	3:20 PM	70	WL	49	500	500	500	14	TT		Pass	
9/25/20	P-3732/P-3924	WEOS / EEOS	3:40 PM	70	WL	49	500	500	500	9	TT		Pass	
9/25/20	P-3773/P-3968	WEOS / EEOS	8:15 AM	50	AA	25	550	550	550	20	TT		Pass	
9/25/20	P-3773/P-3967	WEOS / EEOS	8:23 AM	50	AA	25	550	550	550	4	TT		Pass	
9/25/20	P-3772/P-3967	WEOS / EEOS	8:24 AM	50	AA	25	550	550	550	13	TT		Pass	
9/25/20	P-3771/P-3967	WEOS / EEOS	8:37 AM	50	AA	25	550	550	550	8	TT		Pass	
9/25/20	P-3771/P-3966	WEOS / EEOS	8:48 AM	50	AA	25	550	550	550	17	TT		Pass	
9/25/20	P-3770/P-3966	WEOS / EEOS	8:55 AM	50	AA	25	550	550	550	6	TT		Pass	
9/25/20	P-3770/P-3963	WEOS / EEOS	9:02 AM	50	AA	25	550	550	550	10	TT		Pass	
9/25/20	P-3770/P-3962	WEOS / EEOS	9:16 AM	50	AA	25	550	550	550	8	TT		Pass	
9/25/20	P-3769/P-3962	WEOS / EEOS	9:24 AM	50	AA	25	550	550	550	15	TT		Pass	
9/25/20	P-3769/P-3960	WEOS / EEOS	9:35 AM	50	AA	25	550	550	550	8	TT		Pass	
9/25/20	P-3768/P-3960	WEOS / EEOS	9:40 AM	50	AA	25	550	550	550	6	TT		Pass	
9/25/20	P-3767/P-3960	WEOS / EEOS	9:41 AM	50	AA	25	550	550	550	9	TT		Pass	
9/25/20	P-3767/P-3959	WEOS / EEOS	10:00 AM	52	AA	25	550	550	550	17	TT		Pass	
9/25/20	P-3766/P-3959	WEOS / EEOS	10:06 AM	52	AA	25	550	550	550	7	TT	DX-275	Pass	3' E of WEOS
9/25/20	P-3766/P-3952	WEOS / EEOS	10:20 AM	52	AA	25	550	550	550	19	TT		Pass	
9/25/20	P-3749/P-3942	EEOS / WEOS	8:15 AM	50	WL	49	500	500	500	4	TT		Pass	
9/25/20	P-3750/P-3942	EEOS / WEOS	8:08 AM	50	WL	49	500	500	500	19	TT		Pass	
9/25/20	P-3750/P-3943	EEOS / WEOS	8:35 AM	50	WL	49	500	500	500	4	TT		Pass	
9/25/20	P-3751/P-3943	EEOS / WEOS	8:40 AM	50	WL	49	500	500	500	20	TT		Pass	
9/25/20	P-3751/P-3944	EEOS / WEOS	8:46 AM	50	WL	49	500	500	500	3	TT		Pass	
9/25/20	P-3755/P-3944	EEOS / WEOS	8:50 AM	50	WL	49	500	500	500	21	TT		Pass	
9/25/20	P-3755/P-3945	EEOS / WEOS	9:05 AM	50	WL	49	500	500	500	3	TT		Pass	
9/25/20	P-3756/P-3945	EEOS / WEOS	9:15 AM	50	WL	49	500	500	500	20	TT		Pass	
9/25/20	P-3756/P-3947	EEOS / WEOS	9:28 AM	50	WL	49	500	500	500	3	TT		Pass	
9/25/20	P-3759/P-3947	EEOS / WEOS	9:30 AM	50	WL	49	500	500	500	22	TT		Pass	
9/25/20	P-3762/P-3949	EEOS / WEOS	9:47 AM	50	WL	49	500	500	500	22	TT	DX-274P	Pass	16' W of EEOS
9/25/20	P-3762/P-3951	EEOS / WEOS	10:10 AM	52	WL	49	500	500	500	4	TT		Pass	
9/25/20	P-3764/P-3951	EEOS / WEOS	10:15 AM	52	WL	49	500	500	500	19	TT	DX-274 DX-274N	Pass	7' W of EEOS 17' W of EEOS
9/25/20	P-3764/P-3952	EEOS / WEOS	10:30 AM	52	WL	49	500	500	500	5	TT		Pass	

APPENDIX J.5 – GEOMEMBRANE DESTRUCTIVE TESTING SUMMARIES

APPENDIX J.5.1 – GEOMEMBRANE FUSION DESTRUCTIVE TESTING SUMMARY

APPENDIX J.5.2 – GEOMEMBRANE EXTRUSION DESTRUCTIVE TESTING SUMMARY

APPENDIX J.5.1 – GEOMEMBRANE FUSION DESTRUCTIVE TESTING SUMMARY

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Fusion Welding Destructive Testing Summary

NewFields
Perspective. Vision. Solutions.

Sample Number	Seam Number	Date Seamed	Welding Data		Date Tested	Test Results																QA Monitor
			Operator	Machine Number		Peel Strength (Minimum = 100 ppi)					Peel Strength (Minimum = 100 ppi)					Shear Strength (Minimum = 120 ppi)					Pass/Fail	
DF-1282	P-3441/P-3713	8/24/2020	WL	42	8/25/2020	161	139	122	PEEL	-	PEEL	150	-	-	-	-	-	-	-	-	FAIL	TT
DF-1282P	P-3441/P-3713	8/24/2020	WL	42	8/25/2020	145	PEEL	141	144	153	148	136	153	134	PEEL	-	-	-	-	-	FAIL	TT
DF-1282N	P-3714/P-3715	8/24/2020	WL	42	8/25/2020	154	134	156	148	148	143	138	156	139	150	166	167	150	156	151	PASS	TT
DF-1283	P-3713/P-3714	8/24/2020	AG	82	8/25/2020	152	143	143	149	149	169	141	132	141	158	162	174	162	164	152	PASS	TT
DF-1284	P-3716/P-3717	8/24/2020	AG	82	8/25/2020	144	141	148	141	145	154	135	159	142	148	152	162	157	173	161	PASS	TT
DF-1285	P-3717/P-3718	8/24/2020	WL	42	8/25/2020	PEEL	154	155	PEEL	-	151	152	-	-	-	-	-	-	-	-	FAIL	TT
DF-1285P	P-3717/P-3718	8/24/2020	WL	42	8/25/2020	136	126	143	138	149	146	138	144	139	105	157	161	150	159	146	PASS	TT
DF-1285N	P-3717/P-3718	8/24/2020	WL	42	8/25/2020	140	135	142	141	130	131	113	145	109	147	177	166	183	160	160	PASS	TT
DF-1286	P-3720/P-3721	8/25/2020	AG	82	8/27/2020	138	124	146	130	140	135	140	155	136	118	165	149	172	154	153	PASS	TT
DF-1287	P-3721/P-3722	8/26/2020	AG	82	8/27/2020	147	134	150	139	141	150	124	144	136	141	166	145	144	161	152	PASS	TT
DF-1288	P-3722/P-3723	8/26/2020	WL	42	8/27/2020	119	116	133	124	118	134	124	140	135	142	159	155	143	152	147	PASS	TT
DF-1289	P-3724/P-3725	8/26/2020	WL	42	8/29/2020	164	155	160	153	166	150	140	152	144	154	171	183	171	186	175	PASS	TT
DF-1290	P-3726/P-3727	8/26/2020	AG	82	8/29/2020	151	140	145	134	143	146	139	147	138	148	162	162	153	165	150	PASS	TT
DF-1291	P-3727/P-3728	8/26/2020	WL	42	8/29/2020	169	166	165	162	153	152	146	150	128	167	176	186	176	182	175	PASS	TT
DF-1292	P-3728/P-3729	8/26/2020	AG	82	8/29/2020	146	143	144	140	137	148	135	147	132	147	163	171	162	171	163	PASS	TT
DF-1293	P-3729/P-3730	8/26/2020	WL	42	8/29/2020	163	149	152	151	151	149	144	153	150	149	159	168	166	167	161	PASS	TT
DF-1294	P-3732/P-3733	8/26/2020	AG	82	8/29/2020	155	148	151	142	144	151	143	146	137	151	161	173	164	170	163	PASS	TT
DF-1295	P-3735/P-3736	8/27/2020	AG	82	8/29/2020	151	147	149	141	146	144	146	146	133	146	159	164	153	164	156	PASS	TT
DF-1296	P-3734/P-3735	8/27/2020	WL	42	8/29/2020	146	140	151	138	146	144	134	149	138	147	155	165	158	166	154	PASS	TT
DF-1297	P-3737/P-3738	8/27/2020	AG	82	8/31/2020	139	138	154	146	157	152	139	139	133	140	169	176	166	174	168	PASS	RM
DF-1298	P-3738/P-3739	8/27/2020	WL	42	8/31/2020	172	168	174	164	173	176	160	175	157	179	196	206	197	201	196	PASS	RM
DF-1299	P-3740/P-3741	8/27/2020	WL	42	8/31/2020	156	156	166	153	168	176	153	164	156	166	193	200	195	199	192	PASS	RM
DF-1300	P-3741/P-3742	8/27/2020	AG	82	8/31/2020	161	143	161	153	165	162	146	157	148	167	181	178	177	182	171	PASS	RM
DF-1301	P-3744/P-3745	8/28/2020	AG	82	8/31/2020	163	149	169	154	170	167	154	161	157	160	193	189	192	194	186	PASS	RM
DF-1302	P-3745/P-3746	8/28/2020	WL	42	8/31/2020	147	140	148	143	148	141	136	156	146	155	170	175	170	178	171	PASS	RM
DF-1303	P-3746/P-3747	8/28/2020	AG	82	8/31/2020	160	143	145	144	138	155	143	160	140	159	168	176	169	176	170	PASS	RM
DF-1304	P-3749/P-3750	8/28/2020	WL	42	8/31/2020	161	148	163	163	165	150	139	156	158	154	173	171	170	171	165	PASS	RM
DF-1305	P-3750/P-3751	8/28/2020	AG	82	8/31/2020	153	141	146	137	148	155	131	141	130	138	166	169	177	167	159	PASS	RM
DF-1306	P-3752/P-3755	8/28/2020	WL	42	8/31/2020	166	140	158	135	152	148	152	158	148	160	164	163	172	161	171	PASS	RM
DF-1307	CAP 3/P-3713	8/29/2020	WL	42	8/31/2020	139	129	143	133	140	141	133	131	128	144	147	153	144	153	149	PASS	RM
DF-1308	CAP 5/P-3713	8/31/2020	WL	42	8/31/2020	151	135	126	111	151	151	140	152	145	136	155	163	156	158	154	PASS	RM
DF-1309	P-3755/P-3758	9/1/2020	JA	82	9/11/2020	163	153	167	165	177	161	154	164	139	155	189	203	198	204	195	PASS	RM
DF-1310	P-3762/P-3765	9/1/2020	WL	42	9/11/2020	155	154	166	155	180	162	148	158	160	161	222	188	190	190	192	PASS	RM
DF-1311	P-3750/P-3769	9/1/2020	WL	42	9/11/2020	176	151	170	168	173	176	140	166	150	170	174	183	171	176	172	PASS	RM

N - Next
P - Previous

Note: CAP information is located on Fusion Welding Summary

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Fusion Welding Destructive Testing Summary

NewFields
Perspective. Vision. Solutions.

Sample Number	Seam Number	Date Seamed	Welding Data		Date Tested	Test Results																QA Monitor
			Operator	Machine Number		Peel Strength (Minimum = 100 ppi)					Peel Strength (Minimum = 100 ppi)					Shear Strength (Minimum = 120 ppi)					Pass/Fail	
DF-1312	P-3769/P-3770	9/1/2020	JA	82	9/11/2020	176	186	161	154	184	149	157	171	171	156	188	203	186	203	188	PASS	RM
DF-1313	P-3770/P-3773	9/1/2020	JA	82	9/12/2020	159	179	171	155	166	158	157	151	167	167	194	194	196	187	189	PASS	TT
DF-1314	P-3778/P-3780	9/1/2020	WL	42	9/12/2020	158	143	157	148	162	150	151	153	151	156	175	184	181	184	178	PASS	TT
DF-1315	P-3780/P-3783	9/2/2020	WL	42	9/12/2020	152	129	162	162	161	159	142	153	158	156	174	184	175	181	179	PASS	TT
DF-1316	P-3784/P-3785	9/2/2020	AG	82	9/12/2020	166	162	171	162	168	163	152	163	151	159	183	191	183	193	181	PASS	TT
DF-1317	P-3788/P-3790	9/2/2020	WL	42	9/12/2020	160	159	163	161	164	162	155	169	156	159	177	177	185	183	185	PASS	TT
DF-1318	P-3791/P-3792	9/2/2020	AG	82	9/14/2020	169	161	170	164	167	163	159	161	161	158	172	165	167	167	160	PASS	RM
DF-1319	P-3791/P-3795	9/2/2020	WL	42	9/14/2020	158	156	165	154	165	164	153	165	157	161	186	178	168	178	169	PASS	RM
DF-1320	P-3795/P-3796	9/2/2020	AG	82	9/12/2020	149	153	158	149	180	174	156	170	159	155	194	199	191	197	190	PASS	TT
DF-1321	P-3797/P-3801	9/2/2020	AG	82	9/11/2020	148	158	146	138	168	147	141	139	144	152	171	182	186	187	182	PASS	RM
DF-1322	P-3799/P-3801	9/2/2020	WL	42	9/11/2020	151	165	160	144	158	154	148	153	151	161	190	187	186	185	183	PASS	RM
DF-1323	P-3802/P-3805	9/2/2020	AG	82	9/14/2020	150	141	150	137	154	159	138	146	140	151	185	170	164	182	159	PASS	RM
DF-1324	P-3805/P-3806	9/2/2020	WL	42	9/14/2020	163	162	164	158	162	148	141	149	146	148	180	178	175	180	173	PASS	RM
DF-1325	P-3807/P-3808	9/3/2020	WL	42	9/14/2020	172	160	174	160	166	164	158	165	155	163	189	197	190	198	191	PASS	RM
DF-1326	P-3808/P-3809	9/3/2020	AG	82	9/14/2020	149	138	164	142	160	158	144	136	142	151	177	182	178	176	173	PASS	RM
DF-1327	P-3809/P-3810	9/3/2020	WL	42	9/14/2020	153	109	155	140	154	164	148	159	152	162	180	186	178	184	173	PASS	RM
DF-1328	P-3810/P-3811	9/3/2020	AG	82	9/14/2020	151	138	174	160	168	160	148	168	143	155	173	180	177	183	173	PASS	RM
DF-1329	P-3811/P-3812	9/3/2020	WL	42	9/14/2020	157	152	164	155	159	159	149	151	153	162	176	182	177	178	174	PASS	RM
DF-1330	P-3812/P-3813	9/3/2020	AG	82	9/14/2020	174	137	155	140	160	148	137	161	141	146	155	158	154	158	152	PASS	RM
DF-1331	P-3815/P-3818	9/3/2020	AG	82	9/14/2020	134	127	127	126	128	128	124	126	119	128	141	138	151	142	141	PASS	RM
DF-1332	P-3813/P-3814	9/3/2020	WL	42	9/14/2020	130	135	128	131	117	129	127	128	128	112	144	148	148	152	148	PASS	RM
DF-1333	P-3817/P-3819	9/3/2020	WL	42	9/15/2020	160	139	149	157	162	155	146	144	145	150	176	171	166	172	162	PASS	RM
DF-1334	P-3819/P-3822	9/3/2020	AG	82	9/15/2020	151	142	162	143	152	151	134	154	145	123	167	171	166	167	157	PASS	RM
DF-1335	P-3828/P-3829	9/3/2020	WL	42	9/15/2020	155	138	149	136	155	152	139	147	139	151	153	153	154	156	152	PASS	RM
DF-1336	P-3829/P-3831	9/3/2020	AG	82	9/15/2020	144	137	144	145	148	145	134	141	138	142	154	157	152	160	156	PASS	RM
DF-1337	P-3837/P-3839	9/4/2020	AG	82	9/15/2020	151	134	146	137	148	144	136	151	142	146	159	164	159	165	159	PASS	RM
DF-1338	P-3821/P-3844	9/4/2020	WL	42	9/15/2020	136	139	143	137	143	154	132	141	134	142	150	153	147	153	149	PASS	RM
DF-1339	P-3840/P-3844	9/4/2020	AG	82	9/15/2020	138	131	138	135	142	137	126	140	141	144	154	158	155	158	151	PASS	RM
DF-1340	P-3845/P-3847	9/4/2020	WL	42	9/15/2020	139	136	145	139	139	133	126	137	128	139	152	160	156	161	148	PASS	RM
DF-1341	P-3847/P-3848	9/4/2020	AG	82	9/15/2020	150	136	151	146	150	149	146	152	145	142	155	157	153	156	150	PASS	RM
DF-1342	P-3852/P-3854	9/4/2020	WL	42	9/15/2020	149	138	158	139	151	148	132	147	137	144	155	157	151	158	154	PASS	RM
DF-1343	P-3851/P-3853	9/4/2020	AG	82	9/15/2020	149	143	153	141	140	151	135	151	140	143	151	160	156	158	152	PASS	RM
DF-1344	P-3855/P-3857	9/4/2020	AG	82	9/15/2020	155	130	148	130	138	152	122	147	126	133	151	167	157	159	156	PASS	RM
DF-1345	P-3850/P-3860	9/4/2020	WL	42	9/15/2020	135	136	140	130	137	133	135	142	133	137	142	146	139	153	147	PASS	RM

Note: CAP information is located on Fusion Welding Summary

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Fusion Welding Destructive Testing Summary

NewFields
Perspective. Vision. Solutions.

Sample Number	Seam Number	Date Seamed	Welding Data		Date Tested	Test Results																Pass/Fail	QA Monitor
			Operator	Machine Number		Peel Strength (Minimum = 100 ppi)					Peel Strength (Minimum = 100 ppi)					Shear Strength (Minimum = 120 ppi)						
DF-1346	P-3863/P-3864	9/5/2020	AG	82	9/15/2020	135	128	138	126	140	133	135	142	133	137	151	150	144	147	141	PASS	RM
DF-1347	P-3864/P-3865	9/5/2020	WL	42	9/15/2020	133	129	130	125	128	140	135	128	126	126	152	140	140	159	143	PASS	RM
DF-1348	P-3868/P-3869	9/5/2020	AG	82	9/15/2020	123	121	133	133	137	142	132	137	137	140	152	149	143	143	141	PASS	RM
DF-1349	P-3873/P-3875	9/5/2020	WL	42	9/15/2020	134	128	138	130	134	131	129	134	128	132	145	148	140	156	149	PASS	RM
DF-1350	P-3825/P-3826	9/3/2020	WL	42	9/14/2020	119	122	129	125	126	118	122	119	123	122	144	148	148	152	148	PASS	RM
DF-1351	P-3878/P-3879	9/18/2020	AG	82	9/21/2020	138	122	142	135	143	136	131	141	136	141	149	163	153	180	149	PASS	TT
DF-1352	P-3882/P-3883	9/18/2020	AG	82	9/21/2020	154	149	151	135	151	148	144	142	139	140	160	162	159	163	157	PASS	TT
DF-1353	P-3883/P-3886	9/18/2020	WL	42	9/21/2020	144	135	155	151	157	149	140	141	137	151	159	163	155	162	154	PASS	TT
DF-1354	P-3886/P-3888	9/18/2020	AG	82	9/21/2020	157	147	143	163	157	148	142	148	151	147	164	170	167	168	163	PASS	TT
DF-1355	P-3888/P-3890	9/18/2020	AG	82	9/22/2020	155	154	163	153	166	155	146	154	147	152	174	184	176	177	182	PASS	RM
DF-1356	P-3890/P-3892	9/18/2020	WL	42	9/22/2020	153	143	157	158	150	133	138	147	137	146	167	171	166	171	172	PASS	RM
DF-1357	P-3896/P-3897	9/18/2020	AG	82	9/23/2020	172	174	180	170	169	180	168	173	173	172	182	186	180	184	179	PASS	BM
DF-1358	P-3899/P-3900	9/19/2020	WL	42	9/22/2020	151	145	149	145	159	141	137	145	138	144	172	181	173	177	170	PASS	RM
DF-1359	P-3896/P-3903	9/19/2020	AG	82	9/23/2020	170	155	155	152	160	174	150	163	151	156	186	190	186	189	188	PASS	BM
DF-1360	P-3906/P-3907	9/19/2020	WL	42	9/23/2020	173	179	179	171	176	182	171	175	177	171	183	187	180	186	182	PASS	BM
DF-1361	P-3906/P-3909	9/19/2020	AG	82	9/23/2020	169	160	163	168	177	171	164	174	166	164	192	197	193	197	194	PASS	BM
DF-1362	P-3909/P-3911	9/19/2020	WL	42	9/23/2020	152	157	155	150	153	158	150	157	144	152	185	181	187	182	197	PASS	BM
DF-1363	P-3912/P-3913	9/19/2020	AG	82	9/24/2020	148	141	157	145	146	145	129	143	143	142	159	166	163	167	164	PASS	TT
DF-1364	P-3913/P-3915	9/21/2020	WL	42	9/24/2020	131	131	132	129	133	141	136	143	138	139	142	150	145	149	147	PASS	TT
DF-1365	P-3918/P-3920	9/21/2020	WL	42	9/24/2020	138	135	142	144	149	140	135	139	137	140	153	162	156	166	148	PASS	TT
DF-1366	P-3919/P-3921	9/21/2020	AG	82	9/24/2020	140	134	146	140	144	142	137	141	135	146	154	159	155	158	153	PASS	TT
DF-1367	P-3921/P-3923	9/21/2020	WL	42	9/24/2020	142	137	144	141	145	134	132	136	136	137	152	152	149	152	149	PASS	TT
DF-1368	P-3923/P-3925	9/21/2020	AG	82	9/25/2020	157	149	157	151	149	169	145	161	163	156	180	182	176	180	175	PASS	TT
DF-1369	P-3927/P-3928	9/21/2020	AG	82	9/25/2020	159	150	154	141	156	159	152	156	151	156	177	178	167	183	176	PASS	TT
DF-1370	P-3928/P-3929	9/21/2020	WL	42	9/25/2020	163	153	161	161	162	170	157	171	157	162	172	183	178	184	179	PASS	TT
DF-1371	P-3929/P-3930	9/22/2020	WL	42	9/25/2020	171	146	159	153	160	154	150	155	160	151	169	171	168	173	168	PASS	TT
DF-1372	P-3932/P-3933	9/22/2020	AG	82	9/25/2020	172	158	163	161	163	161	154	157	153	161	178	180	175	182	175	PASS	TT
DF-1373	P-3933/P-3934	9/22/2020	WL	42	9/25/2020	160	156	159	154	159	158	154	154	155	161	165	181	177	179	173	PASS	TT
DF-1374	P-3934/P-3935	9/22/2020	AG	82	9/25/2020	169	163	168	164	160	165	163	167	156	159	188	177	182	178	182	PASS	TT
DF-1375	P-3935/P-3936	9/22/2020	WL	42	9/25/2020	164	145	151	158	151	155	148	158	153	150	177	178	173	183	187	PASS	TT
DF-1376	P-3936/P-3937	9/22/2020	AG	82	9/25/2020	156	162	158	159	156	158	156	166	152	157	174	185	179	183	180	PASS	TT
DF-1377	P-3937/P-3938	9/23/2020	WL	42	9/25/2020	139	138	141	136	133	154	145	149	146	150	164	167	163	162	158	PASS	TT
DF-1378	P-3940/P-3941	9/23/2020	AG	82	9/25/2020	156	138	151	142	149	141	137	143	140	142	155	163	156	163	157	PASS	TT
DF-1379	P-3941/P-3942	9/23/2020	WL	42	9/25/2020	133	138	155	137	141	147	140	149	143	154	159	157	158	155	160	PASS	TT

Note: CAP information is located on Fusion Welding Summary

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Fusion Welding Destructive Testing Summary

Sample Number	Seam Number	Date Seamed	Welding Data		Date Tested	Test Results																QA Monitor
			Operator	Machine Number		Peel Strength (Minimum = 100 ppi)					Peel Strength (Minimum = 100 ppi)					Shear Strength (Minimum = 120 ppi)					Pass/Fail	
DF-1380	P-3944/P-3945	9/23/2020	AG	82	9/26/2020	162	165	169	155	165	168	160	180	157	168	187	189	185	188	185	PASS	TT
DF-1381	P-3945/P-3946	9/23/2020	WL	42	9/27/2020	171	164	181	147	160	158	151	155	161	170	188	190	184	188	184	PASS	TT
DF-1382	P-3948/P-3949	9/23/2020	AG	82	9/28/2020	169	155	167	157	164	166	157	165	162	157	163	166	162	166	163	PASS	TT
DF-1383	P-3948/P-3950	9/23/2020	WL	42	9/29/2020	173	153	164	166	182	179	160	171	156	156	189	193	189	187	185	PASS	TT
DF-1384	P-3950/P-3952	9/24/2020	AG	82	9/30/2020	162	154	155	152	158	163	156	149	146	161	185	178	184	179	182	PASS	TT
DF-1385	P-3954/P-3955	9/24/2020	WL	42	10/1/2020	148	156	152	172	146	164	159	162	159	166	172	178	177	174	181	PASS	TT
DF-1386	P-3959/P-3960	9/24/2020	AG	82	10/2/2020	152	144	146	150	158	168	147	154	146	154	175	184	178	183	179	PASS	TT
DF-1387	P-3960/P-3962	9/24/2020	WL	42	10/3/2020	152	155	158	170	173	150	159	146	137	143	173	179	177	177	177	PASS	TT
DF-1388	P-3963/P-3964	9/24/2020	AG	82	10/4/2020	150	150	171	146	171	147	147	157	163	170	181	182	182	181	180	PASS	TT
DF-1389	P-3966/P-3967	9/24/2020	WL	42	9/26/2020	160	151	168	162	158	150	158	163	145	167	179	179	181	180	180	PASS	TT

Note: CAP information is located on Fusion Welding Summary

APPENDIX J.5.2 – GEOMEMBRANE EXTRUSION DESTRUCTIVE TESTING SUMMARY

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Extrusion Welding Destructive Testing Summary

Sample Number	Seam Number	Date Seamed	Welding Data		Date Tested	Test Results											QA Monitor	Remarks
			Operator	Machine Number		Peel Strength[1] (Minimum = 100 ppi)					Shear Strength[1] (Minimum = 120 ppi)					Pass/Fail		
DX-263	P-3111/P-3714	08/29/20	JA	25	08/29/20	125	152	152	150	155	160	163	156	164	158	PASS	TT	
						-	-	-	-	-								
DX-264	P-3101/P-3723	08/31/20	JA	25	09/11/20	183	191	173	188	190	189	195	192	200	195	PASS	TT	
						-	-	-	-	-								
DX-265	P-3090/P-3735	08/31/20	WL	49	09/11/20	173	178	143	173	188	181	209	185	212	204	PASS	TT	
						-	-	-	-	-								
DX-266	P-3075/P-3744	09/11/20	JA	25	09/12/20	169	157	170	116	174	168	179	173	178	172	PASS	TT	
						-	-	-	-	-								
DX-267	P-3061/P-3796	09/11/20	WL	49	09/12/20	154	PEEL	165	PEEL	PEEL	-	-	-	-	-	FAIL	TT	
						-	-	-	-	-								
DX-267P	P-3061/P-3795	09/11/20	WL	49	09/12/20	151	151	156	146	144	160	166	164	169	161	PASS	TT	
						-	-	-	-	-								
DX-267N	P-3060/P-3797	09/11/20	WL	49	09/12/20	148	143	163	146	153	157	177	159	168	163	PASS	TT	
						-	-	-	-	-								
DX-268	P-3039/P-3811	09/12/20	WL	49	09/12/20	127	123	130	132	125	142	143	141	155	147	PASS	TT	
						-	-	-	-	-								
DX-269	P-2999/P-3864	09/16/20	AA	25	09/16/20	142	140	144	138	149	152	161	149	179	178	PASS	TT	
						-	-	-	-	-								
DX-270	P-3010/P-3843	09/16/20	JLO	44	09/16/20	148	145	149	137	159	172	158	171	148	174	PASS	TT	
						-	-	-	-	-								
DX-271	P-3024/P-3826	09/16/20	WL	49	09/16/20	137	128	162	134	154	148	155	143	144	150	PASS	TT	
						-	-	-	-	-								
DX-272	P-3726/P-3910	09/25/20	AA	25	09/25/20	138	111	126	123	132	137	153	150	160	145	PASS	TT	
						-	-	-	-	-								
DX-273	P-3739/P-3931	09/25/20	WL	49	09/25/20	140	136	142	120	141	148	162	158	160	151	PASS	TT	
						-	-	-	-	-								
DX-274	P-3764/P-3951	09/26/20	WL	49	09/26/20	144	PEEL	PEEL	PEEL	-	-	-	-	-	-	FAIL	TT	
						-	-	-	-	-								
DX-274P	P-3762/P-3949	09/26/20	WL	49	09/26/20	142	130	111	135	137	146	147	142	146	142	PASS	TT	
						-	-	-	-	-								
DX-274N	P-3764/P-3951	09/26/20	WL	49	09/26/20	116	110	127	129	136	145	144	151	143	143	PASS	TT	
						-	-	-	-	-								
DX-275	P-3766/P-3959	09/26/20	AA	25	09/26/20	140	116	127	109	128	161	164	158	159	156	PASS	TT	
						-	-	-	-	-								

N - Next
P - Previous

[1]See Figure 4 for Break Modes

APPENDIX J.6 – GEOMEMBRANE PRESSURE TESTING SUMMARY

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Pressure Testing Summary

NewFields
Perspective. Vision. Solutions.

Date Tested	Seam Number	Location			QC Tech.	Time		Pressure		Pressure Difference (psi)	Pass/Fail	QA Monitor	Seam Complete		Remarks
		From	/	To		Start	Finish	Initial (psi)	Final (psi)				Yes	No	
8/24/2020	P-3441/P-3713	SEOS	/	NEOS	SB	12:40 PM	12:45 PM	35	35	0	P	JS	X		
8/24/2020	P-3713/P-3714	SEOS	/	NEOS	SB	1:12 PM	13:17 PM	35	35	0	P	JS	X		
8/24/2020	P-3714/P-3715	SEOS	/	NEOS	SB	1:14 PM	13:19 PM	35	35	0	P	JS	X		
8/24/2020	P-3715/P-3716	SEOS	/	NEOS	SB	1:32 PM	13:37 PM	36	36	0	P	JS	X		
8/24/2020	P-3714/P-3716	SEOS	/	NEOS	SB	1:38 PM	13:43 PM	35	35	0	P	JS	X		
8/24/2020	P-3716/P-3717	SEOS	/	NEOS	SB	1:40 PM	13:45 PM	35	35	0	P	JS	X		
8/24/2020	P-3714/P-3717	SEOS	/	NEOS	SB	1:45 PM	13:50 PM	35	35	0	P	JS	X		
8/24/2020	P-3717/P-3718	SEOS	/	NEOS	SB	2:01 PM	14:06 PM	35	35	0	P	JS	X		
8/24/2020	P-3718/P-3719	SEOS	/	D-10121	SB	2:22 PM	14:27 PM	35	35	0	P	JS		X	
8/24/2020	P-3718/P-3719	D-10121	/	NEOS	SB	2:43 PM	14:48 PM	35	35	0	P	JS	X		
8/24/2020	P-3719/P-3720	SEOS	/	NEOS	SB	2:50 PM	14:55 PM	35	35	0	P	JS	X		
8/26/2020	P-3720/P-3721	SEOS	/	NEOS	SB	4:02 PM	4:07 PM	35	35	0	P	TT	X		
8/27/2020	P-3721/P-3722	SEOS	/	NEOS	SB	8:50 AM	8:55 AM	35	35	0	P	TT	X		
8/27/2020	P-3722/P-3723	SEOS	/	NEOS	SB	9:43 AM	9:48 AM	35	35	0	P	TT	X		
8/27/2020	P-3723/P-3724	SEOS	/	NEOS	SB	9:47 AM	9:52 AM	35	35	0	P	TT	X		
8/27/2020	P-3724/P-3725	SEOS	/	NEOS	SB	9:53 AM	9:58 AM	35	35	0	P	TT	X		
8/27/2020	P-3725/P-3726	SEOS	/	NEOS	SB	9:53 AM	9:58 AM	35	35	0	P	TT	X		
8/27/2020	P-3726/P-3727	SEOS	/	NEOS	SB	10:00 AM	10:05 AM	35	35	0	P	TT	X		
8/27/2020	P-3727/P-3728	SEOS	/	NEOS	SB	10:00 AM	10:05 AM	35	35	0	P	TT	X		
8/27/2020	P-3728/P-3729	SEOS	/	NEOS	SB	10:06 AM	10:11 AM	35	35	0	P	TT	X		
8/27/2020	P-3729/P-3730	SEOS	/	NEOS	SB	10:06 AM	10:11 AM	35	35	0	P	TT	X		
8/27/2020	P-3730/P-3731	SEOS	/	NEOS	SB	10:12 AM	10:17 AM	35	35	0	P	TT	X		
8/27/2020	P-3731/P-3732	SEOS	/	NEOS	SB	10:12 AM	10:17 AM	35	35	0	P	TT	X		
8/27/2020	P-3732/P-3733	SEOS	/	NEOS	SB	10:19 AM	10:24 AM	35	35	0	P	TT	X		
8/27/2020	P-3733/P-3734	SEOS	/	NEOS	SB	10:22 AM	10:27 AM	35	35	0	P	TT	X		
8/27/2020	P-3734/P-3735	SEOS	/	NEOS	SB	10:30 AM	10:35 AM	35	35	0	P	TT	X		
8/27/2020	P-3735/P-3736	SEOS	/	NEOS	SB	10:34 AM	10:39 AM	35	35	0	P	TT	X		
8/27/2020	P-3736/P-3737	SEOS	/	NEOS	SB	10:40 AM	10:45 AM	35	35	0	P	TT	X		
8/27/2020	P-3737/P-3738	SEOS	/	NEOS	SB	11:03 AM	11:08 AM	35	35	0	P	TT	X		
8/27/2020	P-3738/P-3739	SEOS	/	NEOS	SB	11:09 AM	11:14 AM	35	35	0	P	TT	X		
8/27/2020	P-3739/P-3740	SEOS	/	NEOS	SB	11:14 AM	11:19 AM	35	35	0	P	TT	X		
8/27/2020	P-3740/P-3741	SEOS	/	NEOS	SB	11:30 AM	11:35 AM	35	35	0	P	TT	X		
8/29/2020	P-3741/P-3742	SEOS	/	NEOS	SB	8:58 AM	9:03 AM	35	35	0	P	JS	X		
8/29/2020	P-3742/P-3743	SEOS	/	NEOS	SB	9:04 AM	12:09 AM	35	35	0	P	JS	X		
8/29/2020	P-3743/P-3744	SEOS	/	NEOS	SB	9:27 AM	9:32 AM	35	35	0	P	JS	X		

Note: CAP information is located on Fusion Welding Summary

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Pressure Testing Summary

NewFields
Perspective. Vision. Solutions.

Date Tested	Seam Number	Location			QC Tech.	Time		Pressure		Pressure Difference (psi)	Pass/Fail	QA Monitor	Seam Complete		Remarks
		From	/	To		Start	Finish	Initial (psi)	Final (psi)				Yes	No	
8/29/2020	P-3744/P-3745	SEOS	/	NEOS	SB	9:30 AM	9:35 AM	35	35	0	P	JS	X		
8/29/2020	P-3745/P-3746	SEOS	/	NEOS	SB	9:40 AM	9:45 AM	35	35	0	P	JS	X		
8/29/2020	P-3746/P-3747	SEOS	/	NEOS	SB	9:43 AM	9:48 AM	35	35	0	P	JS	X		
8/29/2020	P-3747/P-3748	SEOS	/	NEOS	SB	9:49 AM	9:54 AM	35	35	0	P	JS	X		
8/29/2020	P-3748/P-3749	SEOS	/	NEOS	SB	9:50 AM	9:55 AM	36	36	0	P	JS	X		
8/29/2020	P-3749/P-3750	SEOS	/	NEOS	SB	9:52 AM	9:57 AM	35	35	0	P	JS	X		
8/29/2020	P-3753/P-3755	SEOS	/	NEOS	SB	10:26 AM	10:31 AM	35	35	0	P	JS	X		
8/29/2020	P-3753/P-3754	EEOS	/	WEOS	SB	10:27 AM	10:32 AM	35	35	0	P	JS	X		
8/29/2020	P-3750/P-3753	SEOS	/	NEOS	SB	10:27 AM	10:32 AM	35	35	0	P	JS	X		
8/29/2020	P-3750/P-3754	NEOS	/	SEOS	SB	10:27 AM	10:32 AM	35	35	0	P	JS	X		
8/29/2020	P-3752/P-3753	EEOS	/	WEOS	SB	10:37 AM	10:42 AM	35	35	0	P	JS	X		
8/29/2020	P-3752/P-3755	SEOS	/	NEOS	SB	10:37 AM	10:42 AM	35	35	0	P	JS	X		
8/29/2020	P-3750/P-3752	SEOS	/	NEOS	SB	10:48 AM	10:53 AM	35	35	0	P	JS	X		
8/29/2020	P-3751/P-3752	EEOS	/	WEOS	SB	10:50 AM	10:55 AM	35	35	0	P	JS	X		
8/29/2020	P-3750/P-3751	SEOS	/	NEOS	SB	10:50 AM	10:55 AM	35	35	0	P	JS	X		
8/29/2020	P-3751/P-3755	SEOS	/	NEOS	SB	10:55 AM	11:00 AM	35	35	0	P	JS	X		
8/29/2020	P-3441/CAP 2	SEOS	/	NEOS	SB	11:23 AM	11:28 AM	35	35	0	p	JS	X		See Note
8/29/2020	CAP 2/P-3713	SEOS	/	NEOS	SB	11:29 AM	11:34 AM	35	35	0	P	JS	X		See Note
8/29/2020	CAP 1/P-3713	SEOS	/	NEOS	SB	11:40 AM	11:45 AM	35	35	0	P	JS	X		See Note
8/29/2020	P-3441/CAP 1	SEOS	/	NEOS	SB	11:40 AM	11:45 AM	35	35	0	P	JS	X		See Note
8/31/2020	CAP 3/P-3713	SEOS	/	NEOS	SB	8:04AM	8:09AM	35	35	0	P	BM	X		See Note
8/31/2020	CAP 3/P-3441	SEOS	/	D-10162	SB	8:45AM	8:50AM	35	35	0	P	BM		X	See Note
8/31/2020	CAP 3/P-3441	D-10162	/	D-10163	SB	8:59AM	9:04AM	35	35	0	P	BM		X	See Note
8/31/2020	CAP 3/P-3441	D-10163	/	NEOS	SB	9:10AM	9:20AM	35	35	0	P	BM	X		See Note
8/31/2020	CAP 4/P-3713	SEOS	/	NEOS	SB	9:19AM	9:24AM	35	35	0	P	BM	X		See Note
8/31/2020	CAP 4/P-3441	SEOS	/	D-10164	SB	9:27AM	9:32AM	35	35	0	P	BM		X	See Note
8/31/2020	CAP 4/P-3441	D-10164	/	NEOS	SB	-	-	-	-	-	F	BM	X		CAPPED
8/31/2020	CAP 5/P-3441	NEOS	/	SEOS	SB	9:36AM	9:41AM	35	35	0	P	BM	X		See Note
8/31/2020	CAP 5/P-3713	NEOS	/	D-10165	SB	9:47AM	9:52AM	35	35	0	P	BM		X	See Note
8/31/2020	CAP 5/P-3713	D-10165	/	D-10166	SB	9:59AM	10:04AM	35	35	0	P	BM		X	See Note
8/31/2020	CAP 5/P-3713	D-10166	/	SEOS	SB	9:55AM	10:00AM	35	35	0	P	BM	X		See Note
9/11/2020	P-3769/P-3770	SEOS	/	NEOS	SB	8:33 AM	8:38 AM	35	35	0	P	BM	X		
9/11/2020	P-3755/P-3769	NEOS	/	SEOS	SB	8:50 AM	8:55 AM	35	35	0	P	BM	X		
9/11/2020	P-3755/P-3758	SEOS	/	NEOS	SB	9:01 AM	9:06 AM	35	35	0	P	BM	X		
9/11/2020	P-3758/P-3769	SEOS	/	D-10401	SB	9:01 AM	9:06 AM	35	35	0	P	BM		X	

Note: CAP information is located on Fusion Welding Summary

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Pressure Testing Summary

NewFields
Perspective. Vision. Solutions.

Date Tested	Seam Number	Location			QC Tech.	Time		Pressure		Pressure Difference (psi)	Pass/Fail	QA Monitor	Seam Complete		Remarks
		From	/	To		Start	Finish	Initial (psi)	Final (psi)				Yes	No	
9/11/2020	P-3758/P-3769	D-10401		NEOS	SB	9:01 AM	9:06 AM	35	35	0	P	BM	X		
9/11/2020	P-3757/P-3758	EEOS	/	WEOS	SB	9:19 AM	9:24 AM	35	35	0	P	BM	X		
9/11/2020	P-3755/P-3757	SEOS	/	NEOS	SB	9:14 AM	9:19 AM	35	35	0	P	BM	X		
9/11/2020	P-3758/P-3761	NEOS	/	SEOS	SB	9:19 AM	9:24 AM	35	35	0	P	BM	X		
9/11/2020	P-3757/P-3761	SEOS	/	NEOS	SB	9:20 AM	9:25 AM	35	35	0	P	BM	X		
9/11/2020	P-3760/P-3761	EEOS	/	WEOS	SB	9:33 AM	9:38 AM	35	35	0	P	BM	X		
9/11/2020	P-3757/P-3760	SEOS	/	NEOS	SB	9:38 AM	9:43 AM	35	35	0	P	BM	X		
9/11/2020	P-3757/P-3759	SEOS	/	NEOS	SB	9:38 AM	9:43 AM	35	35	0	P	BM	X		
9/11/2020	P-3756/P-3757	EEOS	/	WEOS	SB	9:41 AM	9:46 AM	35	35	0	P	BM	X		
9/11/2020	P-3755/P-3756	SEOS	/	NEOS	SB	9:47 AM	9:52 AM	35	35	0	P	BM	X		
9/11/2020	P-3759/P-3760	WEOS	/	EEOS	SB	10:02 AM	10:07 AM	35	35	0	P	BM	X		
9/11/2020	P-3756/P-3759	SEOS	/	NEOS	SB	10:12 AM	10:17 AM	35	35	0	P	BM	X		
9/11/2020	P-3759/P-3762	SEOS	/	NEOS	SB	10:17 AM	10:22 AM	35	35	0	P	BM	X		
9/11/2020	P-3760/P-3762	NEOS	/	SEOS	SB	10:17 AM	10:22 AM	35	35	0	P	BM	X		
9/11/2020	P-3750/P-3769	SEOS	/	NEOS	SB	10:27 AM	10:32 AM	35	35	0	P	BM	X		
9/11/2020	P-3754/P-3769	SEOS	/	NEOS	SB	10:29 AM	10:34 AM	35	35	0	P	BM	X		
9/11/2020	P-3754/P-3769	D-10240	/	NEOS	SB	10:38 AM	10:43 AM	35	35	0	P	BM	X		
9/11/2020	P-3753/P-3769	SEOS	/	NEOS	SB	10:44 AM	10:49 AM	35	35	0	P	BM	X		
9/11/2020	P-3770/P-3782	SEOS	/	NEOS	SB	11:11 AM	11:16 AM	35	35	0	P	BM	X		
9/11/2020	P-3782/P-3783	SEOS	/	NEOS	SB	11:11 AM	11:16 AM	35	35	0	P	BM	X		
9/11/2020	P-3783/P-3790	SEOS	/	NEOS	SB	11:16 AM	11:21 AM	35	35	0	P	BM	X		
9/11/2020	P-3790/P-3794	SEOS	/	D-10287	SB	11:17 AM	11:22 AM	35	35	0	P	BM		X	
9/11/2020	P-3790/P-3794	D-10287	/	NEOS	SB	11:26 AM	11:31 AM	35	35	0	P	BM	X		
9/11/2020	P-3794/P-3795	SEOS	/	NEOS	SB	11:29 AM	11:34 AM	35	35	0	P	BM	X		
9/11/2020	P-3795/P-3796	SEOS	/	NEOS	SB	11:37 AM	11:42 AM	35	35	0	P	BM	X		
9/11/2020	P-3796/P-3797	SEOS	/	NEOS	SB	11:43 AM	11:48 AM	35	35	0	P	BM	X		
9/11/2020	P-3797/P-3799	SEOS	/	NEOS	SB	11:49 AM	11:54 AM	35	35	0	P	BM	X		
9/11/2020	P-3799/P-3801	SEOS	/	NEOS	SB	12:53 PM	12:58 PM	35	35	0	P	BM	X		
9/11/2020	P-3801/P-3804	SEOS	/	NEOS	SB	12:56 PM	1:01 PM	35	35	0	P	BM	X		
9/11/2020	P-3761/P-3769	NEOS	/	SEOS	SB	1:27 PM	1:32 PM	35	35	0	P	BM	X		
9/11/2020	P-3763/P-3769	SEOS	/	NEOS	SB	1:27 PM	1:32 PM	35	35	0	P	BM	X		
9/11/2020	P-3761/P-3763	SEOS	/	NEOS	SB	1:31 PM	1:36 PM	35	35	0	P	BM	X		
9/11/2020	P-3763/P-3765	SEOS	/	NEOS	SB	1:37 PM	1:42 PM	35	35	0	P	BM	X		
9/11/2020	P-3765/P-3769	SEOS	/	NEOS	SB	1:51 PM	1:56 PM	35	35	0	P	BM	X		
9/11/2020	P-3765/P-3766	SEOS	/	NEOS	SB	1:47 PM	1:52 PM	35	35	0	P	BM	X		

Note: CAP information is located on Fusion Welding Summary

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Pressure Testing Summary

NewFields
Perspective. Vision. Solutions.

Date Tested	Seam Number	Location			QC Tech.	Time		Pressure		Pressure Difference (psi)	Pass/Fail	QA Monitor	Seam Complete		Remarks
		From	/	To		Start	Finish	Initial (psi)	Final (psi)				Yes	No	
9/11/2020	P-3766/P-3769	SEOS	/	NEOS	SB	1:55 PM	2:00 PM	35	35	0	P	BM	X		
9/11/2020	P-3760/P-3763	SEOS	/	NEOS	SB	1:55 PM	2:00 PM	35	35	0	P	BM	X		
9/11/2020	P-3762/P-3765	SEOS	/	NEOS	SB	1:58 PM	2:03 PM	35	35	0	P	BM	X		
9/11/2020	P-3762/P-3763	WEOS	/	EEOS	SB	1:57 PM	2:02 PM	35	34	1	P	BM	X		
9/11/2020	P-3764/P-3765	EEOS	/	D-10230	SB	2:06 PM	2:11 PM	35	33	2	P	BM		X	
9/11/2020	P-3764/P-3765	D-10230	/	WEOS	SB	2:10 PM	2:15 PM	35	35	0	P	BM	X		
9/11/2020	P-3764/P-3766	SEOS	/	NEOS	SB	2:22 PM	2:27 PM	35	35	0	P	BM	X		
9/11/2020	P-3762/P-3764	SEOS	/	NEOS	SB	2:23 PM	2:28 PM	35	35	0	P	BM	X		
9/11/2020	P-3766/P-3767	SEOS	/	NEOS	SB	2:27 PM	2:32 PM	35	35	0	P	BM	X		
9/11/2020	P-3767/P-3769	SEOS	/	NEOS	SB	2:33 PM	2:38 PM	35	35	0	P	BM	X		
9/11/2020	P-3767/P-3768	SEOS	/	NEOS	SB	2:35 PM	2:40 PM	35	34	1	P	BM	X		
9/11/2020	P-3768/P-3769	SEOS	/	NEOS	SB	2:35 PM	2:40 PM	35	35	0	P	BM	X		
9/11/2020	P-3770/P-3771	NEOS	/	SEOS	SB	2:40 PM	2:45 PM	35	35	0	P	BM	X		
9/11/2020	P-3771/P-3772	NEOS	/	SEOS	SB	2:42 PM	2:47 PM	35	35	0	P	BM	X		
9/11/2020	P-3772/P-3773	NEOS	/	SEOS	SB	2:44 PM	2:49 PM	35	35	0	P	BM	X		
9/11/2020	P-3773/P-3774	NEOS	/	SEOS	SB	2:49 PM	2:54 PM	35	35	0	P	BM	X		
9/11/2020	P-3774/P-3778	NEOS	/	SEOS	SB	2:51 PM	2:56 PM	35	35	0	P	BM	X		
9/11/2020	P-3771/P-3773	NEOS	/	SEOS	SB	2:58 PM	3:03 PM	35	35	0	P	BM	X		
9/11/2020	P-3773/P-3776	NEOS	/	SEOS	SB	3:06 PM	3:11 PM	35	35	0	P	BM	X		
9/11/2020	P-3774/P-3776	EEOS	/	WEOS	SB	3:06 PM	3:11 PM	35	35	0	P	BM	X		
9/11/2020	P-3776/P-3778	NEOS	/	SEOS	SB	3:08 PM	3:13 PM	35	35	0	P	BM	X		
9/11/2020	P-3770/P-3773	SEOS	/	NEOS	SB	3:17 PM	3:22 PM	35	35	0	P	BM	X		
9/11/2020	P-3770/P-3775	NEOS	/	SEOS	SB	3:29 PM	3:34 PM	35	35	0	P	BM	X		
9/11/2020	P-3773/P-3775	EEOS	/	WEOS	SB	3:35 PM	3:40 PM	35	35	0	P	BM	X		
9/11/2020	P-3775/P-3776	NEOS	/	SEOS	SB	3:37 PM	3:42 PM	35	35	0	P	BM	X		
9/11/2020	P-3775/P-3777	NEOS	/	SEOS	SB	3:38 PM	3:43 PM	35	35	0	P	BM	X		
9/11/2020	P-3776/P-3777	EEOS	/	WEOS	SB	3:40 PM	3:45 PM	35	35	0	P	BM	X		
9/11/2020	P-3777/P-3778	NEOS	/	SEOS	SB	3:45 PM	3:50 PM	35	35	0	P	BM	X		
9/11/2020	P-3770/P-3777	NEOS	/	SEOS	SB	3:47 PM	3:52 PM	35	35	0	P	BM	X		
9/11/2020	P-3770/P-3778	NEOS	/	SEOS	SB	3:53 PM	3:58 PM	35	35	0	P	BM	X		
9/11/2020	P-3778/P-3779	WEOS	/	EEOS	SB	4:03 PM	4:08 PM	35	35	0	P	BM	X		
9/11/2020	P-3779/P-3781	NEOS	/	SEOS	SB	4:09 PM	4:14 PM	35	35	0	P	BM	X		
9/11/2020	P-3770/P-3779	NEOS	/	SEOS	SB	4:17 PM	4:22 PM	35	35	0	P	BM	X		
9/11/2020	P-3778/P-3780	SEOS	/	NEOS	SB	4:18 PM	4:23 PM	35	35	0	P	BM	X		
9/11/2020	P-3778/P-3781	NEOS	/	SEOS	SB	4:18 PM	4:23 PM	35	35	0	P	BM	X		

Note: CAP information is located on Fusion Welding Summary

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Pressure Testing Summary

Date Tested	Seam Number	Location			QC Tech.	Time		Pressure		Pressure Difference (psi)	Pass/Fail	QA Monitor	Seam Complete		Remarks
		From	/	To		Start	Finish	Initial (psi)	Final (psi)				Yes	No	
9/11/2020	P-3779/P-3782	NEOS	/	SEOS	SB	4:20 PM	4:25 PM	35	35	0	P	BM	X		
9/11/2020	P-3781/P-3782	EEOS	/	WEOS	SB	4:27 PM	4:32 PM	35	35	0	P	BM	X		
9/11/2020	P-3781/P-3783	SEOS	/	NEOS	SB	4:27 PM	4:32 PM	35	35	0	P	BM	X		
9/12/2020	P-3804/P-3805	SEOS	/	NEOS	PS	7:23 AM	7:28 AM	35	35	0	P	BM	X		
9/12/2020	P-3805/P-3806	SEOS	/	NEOS	PS	7:25 AM	7:30 AM	35	34	1	P	BM	X		
9/12/2020	P-3806/P-3807	SEOS	/	D-10302	PS	7:54 AM	7:59 AM	35	35	0	P	BM		X	
9/12/2020	P-3806/P-3807	D-10302	/	NEOS	PS	7:56 AM	8:01 AM	35	35	0	P	BM	X		
9/12/2020	P-3807/P-3808	SEOS	/	NEOS	PS	7:39 AM	7:44 AM	35	35	0	P	BM	X		
9/12/2020	P-3808/P-3809	SEOS	/	D-10304	PS	-	-	-	-	-	F	BM		X	CAPPED
9/12/2020	P-3808/P-3809	D-10304	/	NEOS	PS	8:18 AM	8:23 AM	35	35	0	P	BM	X		
9/12/2020	P-3809/P-3810	SEOS	/	NEOS	PS	8:05 AM	8:10 AM	35	35	0	P	BM	X		
9/12/2020	P-3810/P-3811	SEOS	/	NEOS	PS	8:20 AM	8:25 AM	35	35	0	P	BM	X		
9/12/2020	P-3811/P-3812	SEOS	/	NEOS	PS	8:28 AM	8:33 AM	35	34	1	P	BM	X		
9/12/2020	P-3778/P-3780	SEOS	/	NEOS	PS	7:19 AM	7:24 AM	35	35	0	P	BM	X		
9/12/2020	P-3780/P-3781	EEOS	/	WEOS	PS	7:24 AM	7:29 AM	35	35	0	P	BM	X		
9/12/2020	P-3780/P-3783	SEOS	/	NEOS	PS	7:29 AM	7:34 AM	35	35	0	P	BM	X		
9/12/2020	P-3783/P-3786	SEOS	/	NEOS	SB	8:57 AM	9:02 AM	35	35	0	P	BM	X		
9/12/2020	P-3786/P-3787	SEOS	/	NEOS	SB	8:58 AM	9:03 AM	35	35	0	P	BM	X		
9/12/2020	P-3783/P-3787	NEOS	/	D-10272	SB	8:59 AM	9:04 AM	35	35	0	P	BM		X	
9/12/2020	P-3785/P-3787	SEOS	/	NEOS	SB	9:06 AM	9:11 AM	35	35	0	P	BM	X		
9/12/2020	P-3785/P-3786	WEOS	/	EEOS	SB	9:06 AM	9:11 AM	35	33	2	P	BM	X		
9/12/2020	P-3783/P-3785	SEOS	/	NEOS	SB	9:09 AM	9:14 AM	35	35	0	P	BM	X		
9/12/2020	P-3783/P-3784	SEOS	/	NEOS	SB	9:13 AM	9:18 AM	35	35	0	P	BM	X		
9/12/2020	P-3784/P-3785	SEOS	/	NEOS	SB	9:13 AM	9:18 AM	35	35	0	P	RM	X		
9/12/2020	P-3787/P-3788	NEOS	/	SEOS	SB	9:19 AM	9:24 AM	35	35	0	P	RM	X		
9/12/2020	P-3788/P-3790	NEOS	/	SEOS	SB	9:20 AM	9:20 AM	35	35	0	P	RM	X		
9/12/2020	P-3790/P-3791	NEOS	/	SEOS	SB	9:21 AM	9:26 AM	35	35	0	P	RM	X		
9/12/2020	P-3783/P-3787	SEOS	/	D-10272	SB	9:32 AM	9:37 AM	35	35	0	P	RM	X		
9/12/2020	P-3787/P-3789	SEOS	/	NEOS	SB	9:35 AM	9:40 AM	35	35	0	P	RM	X		
9/12/2020	P-3788/P-3789	EEOS	/	WEOS	SB	9:36 AM	9:41 AM	35	35	0	P	RM	X		
9/12/2020	P-3783/P-3789	NEOS	/	SEOS	SB	9:45 AM	9:50 AM	35	33	2	P	RM	X		
9/12/2020	P-3789/P-3790	NEOS	/	SEOS	SB	9:45 AM	9:50 AM	35	35	0	P	RM	X		
9/12/2020	P-3790/P-3793	D-10285	/	SEOS	SB	9:49 AM	9:44 AM	35	35	0	P	RM		X	
9/12/2020	P-3790/P-3793	NEOS	/	D-10285	SB	9:52 AM	9:57 AM	35	34	1	P	RM	X		
9/12/2020	P-3792/P-3793	EEOS	/	WEOS	SB	9:54 AM	9:59 AM	35	35	0	P	RM	X		

Note: CAP information is located on Fusion Welding Summary

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Pressure Testing Summary

Date Tested	Seam Number	Location			QC Tech.	Time		Pressure		Pressure Difference (psi)	Pass/Fail	QA Monitor	Seam Complete		Remarks
		From	/	To		Start	Finish	Initial (psi)	Final (psi)				Yes	No	
9/12/2020	P-3793/P-3795	NEOS	/	SEOS	SB	10:00 AM	10:05 AM	35	35	0	P	RM	X		
9/12/2020	P-3790/P-3792	SEOS	/	NEOS	SB	10:09 AM	10:14 AM	35	35	0	P	RM	X		
9/12/2020	P-3792/P-3795	SEOS	/	NEOS	SB	10:08 AM	10:13 AM	35	35	0	P	RM	X		
9/12/2020	P-3791/P-3792	WEOS	/	EEOS	SB	10:11 AM	10:16 AM	35	35	0	P	RM	X		
9/12/2020	P-3791/P-3795	SEOS	/	NEOS	SB	10:15 AM	10:20 AM	35	35	0	P	RM	X		
9/12/2020	P-3793/P-3794	WEOS	/	EEOS	SB	10:25 AM	10:30 AM	35	35	0	P	RM	X		
9/14/2020	P-3797/P-3798	SEOS	/	NEOS	PS	7:29 AM	7:34 AM	35	35	0	P	TT	X		
9/14/2020	P-3798/P-3800	SEOS	/	NEOS	PS	7:30 AM	7:35 AM	35	35	0	P	TT	X		
9/14/2020	P-3798/P-3799	WEOS	/	EEOS	PS	7:31 AM	7:36 AM	35	34	1	P	TT	X		
9/14/2020	P-3800/P-3801	D10461	/	EEOS	PS	7:58 AM	8:03 AM	35	35	0	P	TT		X	
9/14/2020	P-3800/P-3802	SEOS	/	NEOS	PS	7:44 AM	7:49 AM	35	35	0	P	TT	X		
9/14/2020	P-3799/P-3800	NEOS	/	SEOS	PS	7:45 AM	7:50 AM	35	35	0	P	TT	X		
9/14/2020	P-3801/P-3802	NEOS	/	SEOS	PS	7:48 AM	7:53 AM	35	35	0	P	TT	X		
9/14/2020	P-3800/P-3801	D10461	/	WEOS	PS	-	-	-	-	-	F	TT	X		CAPPED
9/14/2020	P-3802/P-3803	WEOS	/	EEOS	PS	8:02 AM	8:07 AM	35	35	0	P	TT	X		
9/14/2020	P-3802/P-3805	SEOS	/	NEOS	PS	8:03 AM	8:08 AM	35	35	0	P	TT	X		
9/14/2020	P-3803/P-3805	NEOS	/	SEOS	PS	8:07 AM	8:12 AM	35	35	0	P	TT	X		
9/14/2020	P-3801/P-3803	NEOS	/	SEOS	PS	8:06 AM	8:11 AM	35	35	0	P	TT	X		
9/14/2020	P-3803/P-3804	WEOS	/	EEOS	PS	8:18 AM	8:23 AM	35	35	0	P	TT	X		
9/14/2020	P-3812/P-3813	SEOS	/	NEOS	PS	8:29 AM	8:34 AM	35	35	0	P	TT	X		
9/14/2020	P-3813/P-3814	EEOS	/	WEOS	PS	8:32 AM	8:37 AM	35	34	1	P	TT	X		
9/14/2020	P-3814/P-3816	NEOS	/	SEOS	PS	8:33 AM	8:38 AM	35	35	0	P	TT	X		
9/14/2020	P-3815/P-3816	EEOS	/	WEOS	PS	8:57 AM	9:02 AM	35	35	0	P	TT	X		
9/14/2020	P-3813/P-3815	SEOS	/	NEOS	PS	8:56 AM	9:01 AM	35	35	0	P	TT	X		
9/14/2020	P-3813/P-3816	NEOS	/	SEOS	PS	9:00 AM	9:05 AM	35	33	2	P	TT	X		
9/14/2020	P-3816/P-3818	SEOS	/	NEOS	PS	9:15 AM	9:20 AM	35	35	0	P	TT	X		
9/14/2020	P-3815/P-3818	SEOS	/	NEOS	PS	9:34 AM	9:39 AM	35	35	0	P	TT	X		
9/14/2020	P-3818/P-3820	NEOS	/	SEOS	PS	10:14 AM	10:19 AM	35	35	0	P	TT	X		
9/14/2020	P-3819/P-3820	EEOS	/	WEOS	PS	9:37 AM	9:42 AM	35	35	0	P	TT	X		
9/14/2020	P-3818/P-3819	SEOS	/	NEOS	PS	9:39 AM	9:44 AM	35	35	0	P	TT	X		
9/14/2020	P-3820/P-3822	NEOS	/	D10463	PS	10:11 AM	10:16 AM	35	35	0	P	TT		X	
9/14/2020	P-3819/P-3822	SEOS	/	NEOS	PS	9:47 AM	9:52 AM	35	34	1	P	TT	X		
9/14/2020	P-3820/P-3822	SEOS	/	D10463	PS	10:21 AM	10:26 AM	35	35	0	P	TT	X		
9/14/2020	P-3822/P-3826	NEOS	/	SEOS	PS	10:41 AM	10:46 AM	35	35	0	P	TT	X		
9/14/2020	P-3825/P-3826	EEOS	/	WEOS	PS	10:42 AM	10:47 AM	35	35	0	P	TT	X		

Note: CAP information is located on Fusion Welding Summary

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Pressure Testing Summary

NewFields
Perspective. Vision. Solutions.

Date Tested	Seam Number	Location			QC Tech.	Time		Pressure		Pressure Difference (psi)	Pass/Fail	QA Monitor	Seam Complete		Remarks
		From	/	To		Start	Finish	Initial (psi)	Final (psi)				Yes	No	
9/14/2020	P-3822/P-3825	SEOS	/	NEOS	PS	10:48 AM	11:53 AM	35	34	-	P	TT	X		
9/14/2020	P-3826/P-3827	SEOS	/	NEOS	PS	10:53 AM	10:58 AM	35	34	1	P	TT	X		
9/14/2020	P-3825/P-3827	SEOS	/	NEOS	PS	10:55 AM	11:00 AM	35	35	0	P	TT	X		
9/14/2020	P-3827/P-3830	SEOS	/	NEOS	PS	11:10 AM	11:15 AM	35	35	0	P	TT	X		
9/14/2020	P-3830/P-3831	NEOS	/	SEOS	PS	11:18 AM	11:23 AM	35	35	0	P	TT	X		
9/14/2020	P-3829/P-3831	SEOS	/	NEOS	PS	11:20 AM	11:25 AM	35	35	0	P	TT	X		
9/14/2020	P-3829/P-3830	WEOS	/	EEOS	PS	11:19 AM	11:24 AM	35	35	0	P	TT	X		
9/14/2020	P-3827/P-3829	SEOS	/	NEOS	PS	11:27 AM	11:32 AM	35	35	0	P	TT	X		
9/14/2020	P-3833/P-3835	SEOS	/	NEOS	PS	-	-	-	-	-	F	TT	X		CAPPED
9/14/2020	P-3831/P-3833	NEOS	/	SEOS	PS	11:46 AM	11:51 AM	35	35	0	P	TT	X		
9/14/2020	P-3833/P-3834	NEOS	/	D10464	PS	12:57 PM	1:02 PM	35	34	1	P	TT		X	
9/14/2020	P-3834/P-3835	NEOS	/	SEOS	PS	11:40 AM	11:45 AM	35	35	0	P	TT	X		
9/14/2020	P-3833/P-3834	D10464	/	SEOS	PS	12:59 PM	1:04 PM	35	35	0	P	TT	X		
9/14/2020	P-3835/P-3838	NEOS	/	SEOS	PS	1:00 PM	1:05 PM	35	35	0	P	TT	X		
9/14/2020	P-3838/P-3839	NEOS	/	SEOS	PS	1:04 PM	1:09 PM	35	33	2	P	TT	X		
9/14/2020	P-3837/P-3838	EEOS	/	WEOS	PS	1:06 PM	1:11 PM	35	35	0	P	TT	X		
9/14/2020	P-3835/P-3837	SEOS	/	NEOS	PS	1:08 PM	1:13 PM	35	33	2	P	TT	X		
9/14/2020	P-3837/P-3839	SEOS	/	NEOS	PS	1:10 PM	1:15 PM	35	35	0	P	TT	X		
9/14/2020	P-3839/P-3843	NEOS	/	SEOS	PS	1:23 PM	1:28 PM	35	35	0	P	TT	X		
9/14/2020	P-3842/P-3843	EEOS	/	WEOS	PS	1:25 PM	1:30 PM	35	34	1	P	TT	X		
9/14/2020	P-3839/P-3842	SEOS	/	NEOS	PS	1:24 PM	1:29 PM	35	35	-	P	TT	X		
9/14/2020	P-3843/P-3845	NEOS	/	SEOS	PS	1:31 PM	1:36 PM	35	35	-	P	TT	X		
9/14/2020	P-3842/P-3845	SEOS	/	NEOS	PS	1:32 PM	1:37 PM	35	35	-	P	TT	X		
9/14/2020	P-3845/P-3847	SEOS	/	NEOS	PS	1:33 PM	1:38 PM	35	34	1	P	TT	X		
9/14/2020	P-3847/P-3849	SEOS	/	NEOS	PS	1:53 PM	1:58 PM	35	35	0	P	TT	X		
9/14/2020	P-3849/P-3851	NEOS	/	SEOS	PS	1:54 PM	1:59 PM	35	35	0	P	TT	X		
9/14/2020	P-3848/P-3849	EEOS	/	WEOS	PS	2:00 PM	2:05 PM	35	35	0	P	TT	X		
9/14/2020	P-3848/P-3851	SEOS	/	NEOS	PS	2:07 PM	2:12 PM	35	35	0	P	TT	X		
9/14/2020	P-3847/P-3848	SEOS	/	NEOS	PS	2:23 PM	2:28 PM	35	34	1	P	TT	X		
9/14/2020	P-3851/P-3853	D10383	/	SEOS	PS	2:36 PM	2:41 PM	35	35	0	P	TT		X	
9/14/2020	P-3851/P-3853	D10383	/	NEOS	PS	2:35 PM	2:40 PM	35	35	0	P	TT	X		
9/14/2020	P-3853/P-3856	SEOS	/	NEOS	PT	2:39 PM	2:44 PM	35	35	0	P	TT	X		
9/14/2020	P-3856/P-3858	SEOS	/	NEOS	PT	2:45 PM	2:50 PM	35	34	1	P	TT	X		
9/14/2020	P-3822/P-3824	SEOS	/	NEOS	PT	2:57 PM	3:02 PM	35	34	1	P	TT	X		
9/14/2020	P-3824/P-3825	EEOS	/	WEOS	PT	2:58 PM	3:03 PM	35	35	0	P	TT	X		

Note: CAP information is located on Fusion Welding Summary

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Pressure Testing Summary

Date Tested	Seam Number	Location			QC Tech.	Time		Pressure		Pressure Difference (psi)	Pass/Fail	QA Monitor	Seam Complete		Remarks
		From	/	To		Start	Finish	Initial (psi)	Final (psi)				Yes	No	
9/14/2020	P-3824/P-3827	SEOS	/	NEOS	PT	3:05 PM	3:10 PM	35	35	0	P	TT	X		
9/14/2020	P-3827/P-3828	SEOS	/	NEOS	PT	3:07 PM	3:12 PM	35	35	0	P	TT	X		
9/14/2020	P-3828/P-3829	EEOS	/	WEOS	PT	3:12 PM	3:17 PM	35	35	0	P	TT	X		
9/14/2020	P-3828/P-3837	SEOS	/	NEOS	PT	3:11 PM	3:16 PM	35	35	0	P	TT	X		
9/14/2020	P-3829/P-3832	NEOS	/	SEOS	PT	3:23 PM	3:28 PM	35	34	1	P	TT	X		
9/14/2020	P-3836/P-3837	NEOS	/	SEOS	PT	3:15 PM	3:20 PM	35	35	0	P	TT	X		
9/14/2020	P-3832/P-3836	NEOS	/	SEOS	PT	3:23 PM	3:28 PM	35	35	0	P	TT	X		
9/14/2020	P-3831/P-3835	NEOS	/	SEOS	PT	3:28 PM	3:33 PM	35	35	0	P	TT	X		
9/14/2020	P-3835/P-3836	EEOS	/	WEOS	PT	3:29 PM	3:34 PM	35	35	0	P	TT	X		
9/14/2020	P-3831/P-3832	EEOS	/	WEOS	PT	3:35 PM	3:40 PM	35	34	1	P	TT	X		
9/14/2020	P-3841/P-3842	EEOS	/	WEOS	PT	3:43 PM	3:48 PM	35	35	0	P	TT	X		
9/14/2020	P-3839/P-3841	SEOS	/	NEOS	PT	3:52 PM	3:57 PM	35	35	0	P	TT	X		
9/14/2020	P-3841/P-3845	SEOS	/	NEOS	PT	4:04 PM	4:09 PM	35	35	0	P	TT	X		
9/14/2020	P-3840/P-3841	EEOS	/	WEOS	PS	4:20 PM	4:25 PM	35	35	0	P	TT	X		
9/14/2020	P-3839/P-3840	SEOS	/	NEOS	PS	4:21 PM	4:26 PM	35	35	0	P	TT	X		
9/14/2020	P-3827/P-3839	SEOS	/	NEOS	PS	4:24 PM	4:29 PM	35	35	0	P	TT	X		
9/14/2020	P-3823/P-3824	WEOS	/	EEOS	PS	4:27 PM	4:32 PM	35	35	0	P	TT	X		
9/14/2020	P-3823/P-3840	SEOS	/	NEOS	PS	4:30 PM	4:35 PM	35	35	0	P	TT	X		
9/14/2020	P-3822/P-3823	SEOS	/	NEOS	PS	4:31 PM	4:36 PM	35	35	0	P	TT	X		
9/14/2020	P-3821/P-3822	WEOS	/	EEOS	PS	4:34 PM	4:39 PM	35	35	0	P	TT	X		
9/15/2020	P-3817/P-3818	EEOS	/	WEOS	PS	8:25 AM	8:30 AM	35	34	1	P	TT	X		
9/15/2020	P-3815/P-3817	SEOS	/	NEOS	PS	8:23 AM	8:28 AM	35	35	0	P	TT	X		
9/15/2020	P-3817/P-3819	SEOS	/	NEOS	PS	8:27 AM	8:32 AM	35	35	0	P	TT	X		
9/15/2020	P-3844/P-3845	EEOS	/	WEOS	PS	8:33 AM	8:38 AM	35	34	1	P	TT	X		
9/15/2020	P-3821/P-3844	SEOS	/	NEOS	PS	8:31 AM	8:36 AM	35	35	0	P	TT	X		
9/15/2020	P-3844/P-3847	SEOS	/	NEOS	PS	8:36 AM	8:41 AM	35	35	0	P	TT	X		
9/15/2020	P-3819/P-3821	SEOS	/	NEOS	PS	8:35 AM	8:40 AM	35	35	0	P	TT	X		
9/15/2020	P-3819/P-3846	SEOS	/	NEOS	PS	8:42 AM	8:47 AM	35	35	0	P	TT	X		
9/15/2020	P-3846/P-3847	WEOS	/	EEOS	PS	9:14 AM	9:19 AM	35	35	0	P	TT	X		
9/15/2020	P-3846/P-3848	SEOS	/	NEOS	PS	8:44 AM	8:49 AM	35	35	0	P	TT	X		
9/15/2020	P-3850/P-3851	EEOS	/	WEOS	PS	9:25 AM	9:30 AM	35	34	1	P	TT	X		
9/15/2020	P-3848/P-3850	SEOS	/	NEOS	PS	8:49 AM	8:54 AM	35	35	0	P	TT	X		
9/15/2020	P-3840/P-3845	SEOS	/	NEOS	PS	8:54 AM	8:59 AM	35	35	0	P	TT	X		
9/15/2020	P-3851/P-3852	NEOS	/	SEOS	PS	9:08 AM	9:13 AM	35	35	0	P	TT	X		
9/15/2020	P-3850/P-3852	SEOS	/	NEOS	PS	9:09 AM	9:14 AM	35	35	0	P	TT	X		

Note: CAP information is located on Fusion Welding Summary

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Pressure Testing Summary

Date Tested	Seam Number	Location			QC Tech.	Time		Pressure		Pressure Difference (psi)	Pass/Fail	QA Monitor	Seam Complete		Remarks
		From	/	To		Start	Finish	Initial (psi)	Final (psi)				Yes	No	
9/15/2020	P-3852/P-3854	SEOS	/	NEOS	PS	9:27 AM	9:32 AM	35	35	0	P	TT	X		
9/15/2020	P-3854/P-3855	EEOS	/	WEOS	PT	9:40 AM	9:45 AM	35	35	0	P	TT	X		
9/15/2020	P-3854/P-3857	SEOS	/	NEOS	PT	9:33 AM	9:38 AM	35	35	0	P	TT	X		
9/15/2020	P-3852/P-3855	NEOS	/	SEOS	PT	9:44 AM	9:49 AM	35	35	0	P	TT	X		
9/15/2020	P-3852/P-3853	WEOS	/	EEOS	PT	9:47 AM	9:52 AM	35	35	0	P	TT	X		
9/15/2020	P-3853/P-3855	NEOS	/	SEOS	PT	9:54 AM	9:59 AM	35	35	0	P	TT	X		
9/15/2020	P-3855/P-3857	NEOS	/	SEOS	PT	10:07 AM	10:12 AM	35	35	0	P	TT	X		
9/15/2020	P-3855/P-3856	EEOS	/	WEOS	PT	10:37 AM	10:42 AM	35	34	1	P	TT	X		
9/15/2020	P-3856/P-3857	NEOS	/	SEOS	PT	10:18 AM	10:23 AM	35	35	0	P	TT	X		
9/15/2020	P-3853/P-3856	D10377	/	NEOS	PS	10:45 AM	10:50 AM	35	35	0	P	TT		X	
9/15/2020	P-3853/P-3856	D10377	/	D10378	PS	10:39 AM	10:44 AM	35	35	0	P	TT		X	
9/15/2020	P-3857/P-3858	EEOS	/	WEOS	PS	10:26 AM	10:31 AM	35	35	0	P	TT	X		
9/15/2020	P-3858/P-3859	NEOS	/	SEOS	PS	10:47 AM	10:52 AM	35	35	0	P	TT	X		
9/15/2020	P-3857/P-3859	SEOS	/	NEOS	PS	10:48 AM	10:53 AM	35	35	0	P	TT	X		
9/15/2020	P-3853/P-3856	D10378	/	D10460	PS	10:53 AM	10:58 AM	35	35	0	P	TT	X		
9/15/2020	P-3859/P-3862	SEOS	/	NEOS	PS	11:02 AM	11:07 AM	35	35	0	P	TT	X		
9/15/2020	P-3860/P-3862	NEOS	/	SEOS	PS	11:09 AM	11:14 AM	35	35	0	P	TT	X		
9/15/2020	P-3860/P-3863	NEOS	/	SEOS	PS	11:13 AM	11:18 AM	35	34	1	P	TT	X		
9/15/2020	P-3862/P-3864	SEOS	/	NEOS	PS	11:15 AM	11:20 AM	35	34	1	P	TT	X		
9/15/2020	P-3862/P-3863	WEOS	/	EEOS	PS	11:16 AM	11:21 AM	35	33	2	P	TT	X		
9/15/2020	P-3863/P-3864	NEOS	/	SEOS	PS	11:17 AM	11:22 AM	35	35	0	P	TT	X		
9/15/2020	P-3864/P-3866	SEOS	/	NEOS	PS	11:20 AM	11:25 AM	35	35	0	P	TT	X		
9/15/2020	P-3866/P-3867	SEOS	/	NEOS	PS	11:30 AM	11:35 AM	35	35	0	P	TT	X		
9/15/2020	P-3867/P-3868	SEOS	/	NEOS	PS	11:32 AM	11:37 AM	35	35	0	P	TT	X		
9/15/2020	P-3867/P-3869	NEOS	/	SEOS	PS	12:53 PM	12:58 PM	35	35	0	P	TT	X		
9/15/2020	P-3868/P-3869	EEOS	/	WEOS	PS	12:54 PM	12:59 PM	35	35	0	P	TT	X		
9/15/2020	P-3868/P-3871	SEOS	/	NEOS	PS	12:51 PM	12:56 PM	35	35	0	P	TT	X		
9/15/2020	P-3869/P-3871	NEOS	/	SEOS	PS	12:52 PM	12:57 PM	35	34	1	P	TT	X		
9/15/2020	P-3871/P-3872	SEOS	/	NEOS	PS	12:57 PM	1:02 PM	35	35	0	P	TT	X		
9/15/2020	P-3870/P-3871	WEOS	/	EEOS	PS	1:03 PM	1:08 PM	35	35	0	P	TT	X		
9/15/2020	P-3870/P-3872	SEOS	/	NEOS	PS	1:00 PM	1:05 PM	35	35	0	P	TT	X		
9/15/2020	P-3872/P-3873	SEOS	/	NEOS	PS	1:12 PM	1:17 PM	35	35	0	P	TT	X		
9/15/2020	P-3868/P-3870	SEOS	/	NEOS	PS	1:05 PM	1:10 PM	35	35	0	P	TT	X		
9/15/2020	P-3873/P-3874	SEOS	/	NEOS	PS	1:16 PM	1:21 PM	35	34	1	P	TT	X		
9/15/2020	P-3874/P-3876	SEOS	/	NEOS	PS	1:17 PM	1:22 PM	35	35	0	P	TT	X		

Note: CAP information is located on Fusion Welding Summary

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Pressure Testing Summary

Date Tested	Seam Number	Location			QC Tech.	Time		Pressure		Pressure Difference (psi)	Pass/Fail	QA Monitor	Seam Complete		Remarks
		From	/	To		Start	Finish	Initial (psi)	Final (psi)				Yes	No	
9/15/2020	P-3873/P-3875	NEOS	/	SEOS	PS	1:30 PM	1:35 PM	35	34	1	P	TT	X		
9/15/2020	P-3874/P-3875	EEOS	/	WEOS	PS	1:31 PM	1:36 PM	35	33	2	P	TT	X		
9/15/2020	P-3875/P-3876	NEOS	/	SEOS	PS	1:32 PM	1:37 PM	35	34	1	P	TT	X		
9/15/2020	P-3861/P-3864	SEOS	/	NEOS	PS	1:39 PM	1:44 PM	35	35	0	P	TT	X		
9/15/2020	P-3861/P-3862	WEOS	/	EEOS	PS	1:40 PM	1:45 PM	35	35	0	P	TT	X		
9/15/2020	P-3859/P-3861	SEOS	/	NEOS	PS	1:41 PM	1:46 PM	35	35	0	P	TT	X		
9/15/2020	P-3865/P-3866	EEOS	/	WEOS	PS	1:43 PM	1:48 PM	35	35	0	P	TT	X		
9/15/2020	P-3865/P-3867	SEOS	/	NEOS	PS	1:50 PM	1:55 PM	35	35	0	P	TT	X		
9/15/2020	P-3864/P-3865	SEOS	/	NEOS	PS	1:49 PM	1:54 PM	35	35	0	P	TT	X		
9/16/2020	P-3858/P-3860	NEOS	/	SEOS	PS	7:46 AM	7:51 AM	35	35	0	P	TT	X		
9/19/2020	P-3604/P-3877	SEOS	/	NEOS	SB	1:23 PM	1:28 PM	35	35	0	P	TM	X		
9/19/2020	P-3605/P-3877	SEOS	/	NEOS	SB	1:48 PM	1:53 PM	34	34	0	P	TM	X		
9/19/2020	P-3877/P-3878	NEOS	/	SEOS	SB	1:50 PM	1:55 PM	35	35	0	P	TM	X		
9/19/2020	P-3605/P-3878	SEOS	/	NEOS	SB	2:04 PM	2:09 PM	35	35	0	P	TM	X		
9/19/2020	P-3878/P-3879	NEOS	/	SEOS	SB	2:00 PM	2:05 PM	35	35	0	P	TM	X		
9/19/2020	P-3606/P-3879	SEOS	/	NEOS	SB	2:09 PM	2:14 PM	35	35	0	P	TM	X		
9/19/2020	P-3886/P-3888	SEOS	/	NEOS	SB	1:55 PM	2:00 PM	35	35	0	P	TM	X		
9/19/2020	P-3606/P-3878	SEOS	/	NEOS	SB	1:58 PM	2:03 PM	35	35	0	P	TM	X		
9/19/2020	P-3879/P-3880	SEOS	/	NEOS	SB	2:20 PM	2:25 PM	35	35	0	P	TM	X		
9/19/2020	P-3879/P-3881	NEOS	/	SEOS	SB	2:20 PM	2:25 PM	35	35	0	P	TM	X		
9/19/2020	P-3880/P-3881	EEOS	/	WEOS	SB	2:25 PM	2:30 PM	35	35	0	P	TM	X		
9/19/2020	P-3881/P-3882	NEOS	/	SEOS	SB	2:23 PM	2:28 PM	35	35	0	P	TM	X		
9/19/2020	P-3880/P-3882	SEOS	/	NEOS	SB	2:26 PM	2:31 PM	35	35	0	P	TM	X		
9/19/2020	P-3606/P-3880	SEOS	/	NEOS	SB	2:27 PM	2:32 PM	35	34	1	P	TM	X		
9/19/2020	P-3882/P-3884	NEOS	/	SEOS	SB	2:33 PM	2:38 PM	35	35	0	P	TM	X		
9/19/2020	P-3883/P-3884	EEOS	/	WEOS	SB	2:35 PM	2:40 PM	35	35	0	P	TM	X		
9/19/2020	P-3884/P-3886	NEOS	/	SEOS	SB	2:39 PM	2:44 PM	35	35	0	P	TM	X		
9/19/2020	P-3883/P-3886	SEOS	/	D10554	SB	2:50 PM	2:55 PM	35	33	2	P	TM		X	
9/19/2020	P-3882/P-3883	SEOS	/	NEOS	SB	2:42 PM	2:47 PM	35	33	2	P	TM	X		
9/19/2020	P-3883/P-3886	D10554	/	NEOS	SB	2:51 PM	2:56 PM	35	34	1	P	TM	X		
9/19/2020	P-3606/P-3883	SEOS	/	NEOS	SB	2:54 PM	2:59 PM	35	34	1	P	TM	X		
9/19/2020	P-3606/P-3882	SEOS	/	NEOS	SB	2:59 PM	3:04 PM	35	35	0	P	TM	X		
9/19/2020	P-3606/P-3886	SEOS	/	NEOS	SB	3:11 PM	3:16 PM	35	35	0	P	TM	X		
9/19/2020	P-3606/P-3888	SEOS	/	D10637	SB	3:23 PM	3:28 PM	37	37	0	P	TM		X	
9/19/2020	P-3606/P-3890	SEOS	/	NEOS	SB	3:35 PM	3:40 PM	35	35	0	P	TM	X		

Note: CAP information is located on Fusion Welding Summary

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Pressure Testing Summary

Date Tested	Seam Number	Location			QC Tech.	Time		Pressure		Pressure Difference (psi)	Pass/Fail	QA Monitor	Seam Complete		Remarks
		From	/	To		Start	Finish	Initial (psi)	Final (psi)				Yes	No	
9/19/2020	P-3606/P-3888	D10637	/	NEOS	SB	3:36 PM	3:41 PM	36	35	1	P	TM	X		
9/19/2020	P-3712/P-3890	SEOS	/	NEOS	SB	3:37 PM	3:42 PM	35	33	2	P	TM	X		
9/19/2020	P-3712/P-3892	SEOS	/	NEOS	SB	3:37 PM	3:42 PM	35	35	0	P	TM	X		
9/19/2020	P-3892/P-3895	NEOS	/	SEOS	SB	3:46 PM	3:51 PM	35	35	0	P	TM	X		
9/19/2020	P-3895/P-3898	SEOS	/	NEOS	SB	3:47 PM	3:52 PM	35	35	0	P	TM	X		
9/19/2020	P-3898/P-3899	SEOS	/	NEOS	SB	3:47 PM	3:52 PM	37	35	2	P	TM	X		
9/19/2020	P-3895/P-3899	NEOS	/	SEOS	SB	3:50 PM	3:55 PM	35	35	0	P	TM	X		
9/19/2020	P-3890/P-3892	NEOS	/	SEOS	SB	4:07 PM	4:12 PM	36	36	0	P	TM	X		
9/21/2020	P-3882/P-3885	NEOS	/	SEOS	SB	1:46 PM	1:51 PM	35	35	0	P	RM	X		
9/21/2020	P-3884/P-3885	EEOS	/	WEOS	SB	1:47 PM	1:52 PM	35	35	0	P	RM	X		
9/21/2020	P-3885/P-3886	NEOS	/	SEOS	SB	1:51 PM	1:56 PM	35	35	0	P	RM	X		
9/21/2020	P-3888/P-3890	NEOS	/	SEOS	SB	2:49 PM	2:54 PM	35	35	0	P	RM	X		
9/21/2020	P-3892/P-3893	EEOS	/	WEOS	SB	3:00 PM	3:05 PM	35	35	0	P	RM	X		
9/21/2020	P-3890/P-3893	NEOS	/	D10629	SB	3:07 PM	3:12 PM	35	35	0	P	RM		X	
9/21/2020	P-3893/P-3895	NEOS	/	SEOS	SB	3:10 PM	3:15 PM	35	35	0	P	RM	X		
9/21/2020	P-3890/P-3893	D10629	/	D10584	SB	3:16 PM	3:21 PM	35	34	1	P	RM		X	
9/21/2020	P-3890/P-3893	D10584	/	SEOS	SB	3:20 PM	3:25 PM	35	35	0	P	RM	X		
9/21/2020	P-3893/P-3896	NEOS	/	SEOS	SB	3:23 PM	3:28 PM	35	35	0	P	RM	X		
9/21/2020	P-3895/P-3896	EEOS	/	WEOS	SB	3:25 PM	3:30 PM	35	33	2	P	RM	X		
9/21/2020	P-3895/P-3901	SEOS	/	NEOS	SB	3:31 PM	3:36 PM	35	35	0	P	RM	X		
9/21/2020	P-3896/P-3901	NEOS	/	SEOS	SB	3:32 PM	3:37 PM	35	35	0	P	RM	X		
9/21/2020	P-3899/P-3901	SEOS	/	NEOS	SB	3:36 PM	3:41 PM	35	33	2	P	RM	X		
9/21/2020	P-3899/P-3900	SEOS	/	NEOS	SB	3:38 PM	3:43 PM	35	34	1	P	RM	X		
9/21/2020	P-3900/P-3901	WEOS	/	EEOS	SB	3:41 PM	3:46 PM	35	35	0	P	RM	X		
9/21/2020	P-3900/P-3902	SEOS	/	NEOS	SB	3:43 PM	3:48 PM	35	35	0	P	RM	X		
9/21/2020	P-3901/P-3902	SEOS	/	D10630	SB	4:00 PM	4:05 PM	35	35	0	P	RM		X	
9/21/2020	P-3902/P-3903	EEOS	/	WEOS	SB	3:55 PM	4:00 PM	35	35	0	P	RM	X		
9/21/2020	P-3901/P-3902	D10630	/	NEOS	SB	4:01 PM	4:06 PM	35	35	0	P	RM	X		
9/21/2020	P-3893/P-3894	WEOS	/	EEOS	SB	4:09 PM	4:14 PM	35	35	0	P	RM	X		
9/21/2020	P-3894/P-3896	NEOS	/	SEOS	SB	4:15 PM	4:20 PM	35	33	2	P	RM	X		
9/21/2020	P-3890/P-3894	NEOS	/	D10573	SB	4:14 PM	4:19 PM	35	35	0	P	RM		X	
9/21/2020	P-3890/P-3891	WEOS	/	D10558	SB	4:25 PM	4:30 PM	35	35	0	P	RM	X		CAPPED D10558 TO EEOS
9/21/2020	P-3890/P-3894	D10573	/	SEOS	SB	4:30 PM	4:35 PM	35	-	-	F	RM	X		CAPPED
9/21/2020	P-3890/P-3894	NEOS	/	SEOS	SB	4:30 PM	4:35 PM	35	35	0	P	RM	X		
9/22/2020	P-3885/P-3887	NEOS	/	SEOS	SB	10:50 AM	10:55 AM	35	34	1	P	BM	X		

Note: CAP information is located on Fusion Welding Summary

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Pressure Testing Summary

NewFields
Perspective. Vision. Solutions.

Date Tested	Seam Number	Location			QC Tech.	Time		Pressure		Pressure Difference (psi)	Pass/Fail	QA Monitor	Seam Complete		Remarks
		From	/	To		Start	Finish	Initial (psi)	Final (psi)				Yes	No	
9/22/2020	P-3886/P-3887	EEOS	/	WEOS	SB	10:56 AM	11:01 AM	35	35	0	P	BM	X		
9/22/2020	P-3887/P-3888	NEOS	/	SEOS	SB	11:09 AM	11:14 AM	35	35	0	P	BM	X		
9/22/2020	P-3887/P-3889	NEOS	/	SEOS	SB	11:10 AM	11:15 AM	35	35	0	P	BM	X		
9/22/2020	P-3888/P-3889	EEOS	/	WEOS	SB	12:20 PM	12:25 PM	35	35	0	P	BM	X		
9/22/2020	P-3888/P-3891	SEOS	/	NEOS	SB	11:20 AM	11:25 AM	35	35	0	P	BM	X		
9/22/2020	P-3889/P-3891	NEOS	/	SEOS	SB	12:20 PM	12:25 PM	35	35	0	P	BM	X		
9/22/2020	P-3891/P-3894	NEOS	/	D-10574	SB	4:30 PM	4:35 AM	35	35	0	P	BM		X	
9/22/2020	P-3891/P-3894	D-10574	/	SEOS	SB	12:45 PM	12:50 PM	35	35	0	P	BM	X		
9/22/2020	P-3897/P-3905	SEOS	/	NEOS	SB	1:04 PM	1:08 PM	35	35	0	P	BM	X		
9/22/2020	P-3905/P-3907	SEOS	/	NEOS	SB	1:04 PM	1:09 PM	35	33	2	P	BM	X		
9/22/2020	P-3894/P-3897	NEOS	/	SEOS	SB	1:10 PM	1:15 PM	35	34	1	P	BM	X		
9/22/2020	P-3896/P-3897	EEOS	/	WEOS	SB	1:11 PM	1:16 PM	35	35	0	P	BM	X		
9/22/2020	P-3896/P-3905	NEOS	/	SEOS	SB	1:23 PM	1:28 PM	35	35	0	P	BM	X		
9/22/2020	P-3896/P-3903	SEOS	/	NEOS	SB	1:23 PM	1:28 PM	35	35	0	P	BM	X		
9/22/2020	P-3903/P-3905	NEOS	/	SEOS	SB	1:34 PM	12:29 PM	35	35	0	P	BM	X		
9/22/2020	P-3902/P-3905	SEOS	/	NEOS	SB	1:38 PM	1:43 PM	35	35	0	P	BM	X		
9/22/2020	P-3904/P-3905	EEOS	/	WEOS	SB	1:44 PM	1:49 PM	35	35	0	P	BM	X		
9/22/2020	P-3902/P-3904	SEOS	/	NEOS	SB	1:44 PM	1:49 PM	35	35	0	P	BM	X		
9/22/2020	P-3904/P-3906	SEOS	/	NEOS	SB	1:51 PM	1:56 PM	35	35	0	P	BM	X		
9/22/2020	P-3905/P-3906	NEOS	/	SEOS	SB	1:52 PM	1:57 PM	35	35	0	P	BM	X		
9/22/2020	P-3906/P-3907	WEOS	/	EEOS	SB	2:00 PM	2:05 PM	35	35	0	P	BM	X		
9/22/2020	P-3906/P-3909	SEOS	/	NEOS	SB	2:03 PM	2:08 PM	35	35	0	P	BM	X		
9/22/2020	P-3907/P-3909	NEOS	/	SEOS	SB	2:15 PM	2:21 PM	35	35	0	P	BM	X		
9/22/2020	P-3907/P-3908	WEOS	/	EEOS	SB	2:18 PM	2:23 PM	35	35	0	P	BM	X		
9/22/2020	P-3908/P-3909	NEOS	/	SEOS	SB	2:26 PM	2:31 PM	35	35	0	P	BM	X		
9/22/2020	P-3897/P-3908	NEOS	/	SEOS	SB	2:32 PM	2:37 PM	35	35	0	P	BM	X		
9/22/2020	P-3909/P-3910	EEOS	/	WEOS	SB	2:35 PM	2:40 PM	35	35	0	P	BM	X		
9/22/2020	P-3908/P-3910	NEOS	/	SEOS	SB	2:39 PM	2:44 PM	35	35	0	P	BM	X		
9/22/2020	P-3897/P-3910	SEOS	/	NEOS	SB	2:43 PM	2:48 PM	35	35	0	P	BM	X		
9/22/2020	P-3910/P-3912	SEOS	/	NEOS	SB	2:46 PM	2:51 PM	35	35	0	P	BM	X		
9/22/2020	P-3910/P-3911	NEOS	/	SEOS	SB					0	F	BM			CAPPED
9/22/2020	P-3912/P-3913	NEOS	/	SEOS	SB	2:54 PM	2:59 PM	35	35	0	P	BM	X		
9/22/2020	P-3911/P-3912	WEOS	/	EEOS	SB	2:54 PM	2:59 PM	35	35	0	P	BM	X		
9/22/2020	P-3911/P-3913	SEOS	/	NEOS	SB	3:04 PM	3:09 PM	35	35	0	P	BM	X		
9/22/2020	P-3913/P-3915	SEOS	/	NEOS	SB	3:21 PM	3:26 PM	35	35	0	P	BM	X		

Note: CAP information is located on Fusion Welding Summary

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Pressure Testing Summary

Date Tested	Seam Number	Location			QC Tech.	Time		Pressure		Pressure Difference (psi)	Pass/Fail	QA Monitor	Seam Complete		Remarks
		From	/	To		Start	Finish	Initial (psi)	Final (psi)				Yes	No	
9/22/2020	P-3913/P-3914	WEOS	/	EEOS	SB	3:24 PM	3:29 PM	35	35	0	P	BM	X		
9/22/2020	P-3914/P-3915	NEOS	/	SEOS	SB	3:29 PM	3:34 PM	35	35	0	P	BM	X		
9/22/2020	P-3912/P-3914	NEOS	/	SEOS	SB	3:30 PM	3:35 PM	35	35	0	P	BM	X		
9/22/2020	P-3915/P-3916	EEOS	/	WEOS	SB	3:38 PM	3:43 PM	35	35	0	P	BM	X		
9/22/2020	P-3914/P-3916	NEOS	/	SEOS	SB	3:46 PM	3:51 PM	35	35	0	P	BM	X		
9/22/2020	P-3916/P-3918	NEOS	/	SEOS	SB	3:56 PM	4:01 PM	35	35	0	P	BM	X		
9/22/2020	P-3915/P-3918	SEOS	/	NEOS	SB	3:56 PM	4:01 PM	35	35	0	P	BM	X		
9/22/2020	P-3909/P-3911	SEOS	/	NEOS	SB	4:05 PM	4:10 PM	35	35	0	P	BM	X		
9/23/2020	P-3915/P-3917	SEOS	/	NEOS	SB	7:27 AM	7:32 AM	35	33	2	P	TT	X		
9/23/2020	P-3917/P-3918	EEOS	/	WEOS	SB	7:29 AM	7:34 AM	35	35	0	P	TT	X		
9/23/2020	P-3917/P-3919	SEOS	/	NEOS	SB	7:45 AM	7:50 AM	35	35	0	P	TT	X		
9/23/2020	P-3918/P-3919	NEOS	/	SEOS	SB	7:47 AM	7:52 AM	35	34	1	P	TT	X		
9/23/2020	P-3918/P-3920	NEOS	/	SEOS	SB	7:57 AM	8:02 AM	35	34	1	P	TT	X		
9/23/2020	P-3919/P-3921	SEOS	/	NEOS	SB	8:01 AM	8:06 AM	35	35	0	P	TT	X		
9/23/2020	P-3919/P-3920	WEOS	/	EEOS	SB	8:13 AM	8:18 AM	35	35	0	P	TT	X		
9/23/2020	P-3920/P-3921	NEOS	/	SEOS	SB	8:14 AM	8:19 AM	35	35	0	P	TT	X		
9/24/2020	P-3935/P-3936	SEOS	/	NEOS	SB	3:20 PM	3:25 PM	35	35	0	P	BM	X		
9/24/2020	P-3936/P-3937	SEOS	/	NEOS	SB	3:22 PM	3:27 PM	35	35	0	P	BM	X		
9/24/2020	P-3937/P-3938	SEOS	/	NEOS	SB	3:31 PM	3:36 PM	35	35	0	P	BM	X		
9/24/2020	P-3938/P-3939	SEOS	/	NEOS	SB	3:32 PM	3:37 PM	35	35	0	P	BM	X		
9/24/2020	P-3940/P-3941	SEOS	/	NEOS	SB	4:16 PM	4:21 PM	35	35	0	P	BM	X		
9/24/2020	P-3941/P-3942	SEOS	/	D10640	SB	7:30 AM	7:35 AM	35	35	0	P	BM		X	
9/24/2020	P-3941/P-3942	D10640	/	NEOS	SB	7:43 AM	7:48 AM	35	35	0	P	BM	X		
9/24/2020	P-3939/P-3940	NEOS	/	D10667	SB	7:53 AM	7:58 AM	35	35	0	P	BM		X	
9/24/2020	P-3939/P-3940	D10667	/	SEOS	SB	8:00 AM	8:05 AM	35	35	0	P	BM	X		
9/24/2020	P-3942/P-3943	SEOS	/	NEOS	SB	8:13 AM	8:18 AM	35	35	0	P	BM	X		
9/24/2020	P-3943/P-3944	SEOS	/	NEOS	SB	8:17 AM	8:22 AM	35	35	0	P	BM	X		
9/24/2020	P-3944/P-3945	SEOS	/	D10644	SB	8:30 AM	8:35 AM	35	35	0	P	BM		X	
9/24/2020	P-3944/P-3945	D10644	/	D10674	SB	8:50 AM	8:55 AM	35	35	0	P	BM		X	
9/24/2020	P-3944/P-3945	D10674	/	NEOS	SB	9:27 AM	9:32 AM	35	35	0	P	BM	X		
9/24/2020	P-3945/P-3947	NEOS	/	SEOS	SB	9:45 AM	9:50 AM	35	35	0	P	BM	X		
9/24/2020	P-3946/P-3947	EEOS	/	WEOS	SB	9:46 AM	9:51 AM	35	35	0	P	BM	X		
9/24/2020	P-3946/P-3948	SEOS	/	D10675	SB	10:52 AM	10:57 AM	35	35	0	P	BM		X	
9/24/2020	P-3946/P-3948	D10675	/	NEOS	SB	-	-	-	-	-	F	BM	X		CAPPED
9/24/2020	P-3945/P-3946	SEOS	/	NEOS	SB	10:56 AM	11:01 AM	35	35	0	P	BM	X		

Note: CAP information is located on Fusion Welding Summary

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Pressure Testing Summary

Date Tested	Seam Number	Location			QC Tech.	Time		Pressure		Pressure Difference (psi)	Pass/Fail	QA Monitor	Seam Complete		Remarks
		From	/	To		Start	Finish	Initial (psi)	Final (psi)				Yes	No	
9/24/2020	P-3947/P-3948	NEOS	/	SEOS	SB	1:17 PM	1:22 PM	35	35	0	P	BM	X		
9/24/2020	P-3920/P-3922	NEOS	/	SEOS	SB	1:50 PM	1:55 PM	35	35	0	P	BM	X		
9/24/2020	P-3921/P-3922	EEOS	/	WEOS	SB	1:33 PM	1:38 PM	35	35	0	P	BM	X		
9/24/2020	P-3921/P-3923	SEOS	/	NEOS	SB	1:30 PM	1:35 PM	35	35	0	P	BM	X		
9/24/2020	P-3922/P-3923	NEOS	/	SEOS	SB	1:30 PM	1:35 PM	35	35	0	P	BM	X		
9/24/2020	P-3922/P-3924	NEOS	/	SEOS	SB	1:55 PM	2:00 PM	35	35	0	P	BM	X		
9/24/2020	P-3923/P-3924	EEOS	/	WEOS	SB	2:10 PM	2:15 PM	35	35	0	P	BM	X		
9/24/2020	P-3924/P-3925	NEOS	/	SEOS	SB	2:12 PM	2:17 PM	35	35	0	P	BM	X		
9/24/2020	P-3923/P-3925	SEOS	/	NEOS	SB	2:12 PM	2:17 PM	35	35	0	P	BM	X		
9/24/2020	P-3925/P-3927	SEOS	/	NEOS	SB	2:13 PM	2:18 PM	35	35	0	P	BM	X		
9/24/2020	P-3925/P-3926	EEOS	/	WEOS	SB	2:20 PM	2:25 PM	35	35	0	P	BM	X		
9/24/2020	P-3924/P-3926	NEOS	/	SEOS	SB	2:20 PM	2:25 PM	35	35	0	P	BM	X		
9/24/2020	P-3926/P-3927	NEOS	/	SEOS	SB	2:26 PM	2:31 PM	35	35	0	P	BM	X		
9/24/2020	P-3927/P-3928	SEOS	/	NEOS	SB	2:33 PM	2:38 PM	35	35	0	P	BM	X		
9/24/2020	P-3928/P-3929	SEOS	/	NEOS	SB	2:34 PM	2:39 PM	35	35	0	P	BM	X		
9/24/2020	P-3929/P-3930	SEOS	/	NEOS	SB	2:53 PM	2:58 PM	35	35	0	P	BM	X		
9/24/2020	P-3930/P-3931	SEOS	/	NEOS	SB	2:57 PM	3:02 PM	35	35	0	P	BM	X		
9/24/2020	P-3931/P-3932	SEOS	/	NEOS	SB	2:58 PM	3:03 PM	35	35	0	P	BM	X		
9/24/2020	P-3932/P-3933	SEOS	/	NEOS	SB	3:02 PM	3:07 PM	35	35	0	P	BM	X		
9/24/2020	P-3933/P-3934	SEOS	/	NEOS	SB	3:07 PM	3:12 PM	35	35	0	P	BM	X		
9/24/2020	P-3934/P-3935	SEOS	/	NEOS	SB	3:19 PM	3:24 PM	35	35	0	P	BM	X		
9/25/2020	P-3947/P-3949	NEOS	/	SEOS	SB	1:25 PM	1:30 PM	35	35	0	P	BM	X		
9/25/2020	P-3948/P-3949	EEOS	/	WEOS	SB	1:28 PM	1:33 PM	35	35	0	P	BM	X		
9/25/2020	P-3948/P-3950	SEOS	/	NEOS	SB	1:30 PM	1:35 PM	35	35	0	P	BM	X		
9/25/2020	P-3949/P-3950	NEOS	/	SEOS	SB	1:34 PM	1:39 PM	35	35	0	P	BM	X		
9/25/2020	P-3949/P-3951	NEOS	/	SEOS	SB	1:42 PM	1:47 PM	35	35	0	P	BM	X		
9/25/2020	P-3950/P-3951	EEOS	/	WEOS	SB	1:43 PM	1:48 PM	35	35	0	P	BM	X		
9/25/2020	P-3950/P-3952	SEOS	/	NEOS	SB	1:45 PM	1:50 PM	35	35	0	P	BM	X		
9/25/2020	P-3951/P-3952	NEOS	/	SEOS	SB	1:46 PM	1:51 PM	35	35	0	P	BM	X		
9/25/2020	P-3952/P-3953	SEOS	/	NEOS	SB	2:06 PM	2:11 PM	35	35	0	P	BM	X		
9/25/2020	P-3953/P-3959	SEOS	/	NEOS	SB	2:07 PM	2:12 PM	35	35	0	P	BM	X		
9/25/2020	P-3953/P-3954	SEOS	/	NEOS	SB	2:11 PM	2:16 PM	35	35	0	P	BM	X		
9/25/2020	P-3954/P-3959	SEOS	/	NEOS	SB	2:15 PM	2:20 PM	35	35	0	P	BM	X		
9/25/2020	P-3954/P-3956	SEOS	/	NEOS	SB	2:21 PM	2:26 PM	35	35	0	P	BM	X		
9/25/2020	P-3956/P-3959	SEOS	/	NEOS	SB	2:21 PM	2:26 PM	35	35	0	P	BM	X		

Note: CAP information is located on Fusion Welding Summary

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Pressure Testing Summary

Date Tested	Seam Number	Location			QC Tech.	Time		Pressure		Pressure Difference (psi)	Pass/Fail	QA Monitor	Seam Complete		Remarks
		From	/	To		Start	Finish	Initial (psi)	Final (psi)				Yes	No	
9/25/2020	P-3954/P-3955	SEOS	/	NEOS	SB	2:27 PM	2:32 PM	35	35	0	P	BM	X		
9/25/2020	P-3955/P-3956	EEOS	/	WEOS	SB	2:29 PM	2:34 PM	35	35	0	P	BM	X		
9/25/2020	P-3955/P-3959	SEOS	/	NEOS	SB	2:30 PM	2:35 PM	35	35	0	P	BM	X		
9/25/2020	P-3955/P-3957	SEOS	/	NEOS	SB	2:36 PM	2:41 PM	35	35	0	P	BM	X		
9/25/2020	P-3957/P-3959	SEOS	/	NEOS	SB	2:36 PM	2:41 PM	35	35	0	P	BM	X		
9/25/2020	P-3957/P-3958	SEOS	/	NEOS	SB	2:39 PM	2:44 PM	35	35	0	P	BM	X		
9/25/2020	P-3958/P-3959	SEOS	/	NEOS	SB	2:39 PM	2:44 PM	35	35	0	P	BM	X		
9/25/2020	P-3959/P-3960	SEOS	/	NEOS	SB	2:50 PM	2:55 PM	35	35	0	P	BM	X		
9/25/2020	P-3960/P-3962	SEOS	/	NEOS	SB	2:52 PM	2:57 PM	35	35	0	P	BM	X		
9/25/2020	P-3962/P-3963	SEOS	/	NEOS	SB	2:53 PM	2:58 PM	35	35	0	P	BM	X		
9/25/2020	P-3960/P-3961	SEOS	/	NEOS	SB	3:00 PM	3:05 PM	35	35	0	P	BM	X		
9/25/2020	P-3961/P-3962	EEOS	/	WEOS	SB	3:01 PM	3:06 PM	35	35	0	P	BM	X		
9/25/2020	P-3961/P-3963	SEOS	/	NEOS	SB	3:04 PM	3:09 PM	35	35	0	P	BM	X		
9/25/2020	P-3963/P-3964	NEOS	/	D10676	SB	3:10 PM	3:15 PM	35	35	0	P	BM		X	
9/25/2020	P-3963/P-3964	D10676	/	SEOS	SB	3:19 PM	3:24 PM	35	35	0	P	BM	X		
9/25/2020	P-3964/P-3965	SEOS	/	NEOS	SB	3:14 PM	3:19 PM	35	35	0	P	BM	X		
9/25/2020	P-3965/P-3966	SEOS	/	NEOS	SB	3:14 PM	3:19 PM	35	35	0	P	BM	X		
9/25/2020	P-3964/P-3966	SEOS	/	NEOS	SB	3:29 PM	3:34 PM	35	35	0	P	BM	X		
9/25/2020	P-3963/P-3966	SEOS	/	NEOS	SB	3:31 PM	3:36 PM	35	35	0	P	BM	X		
9/25/2020	P-3966/P-3967	SEOS	/	NEOS	SB	3:35 PM	3:40 PM	35	35	0	P	BM	X		
9/25/2020	P-3967/P-3968	SEOS	/	NEOS	SB	3:36 PM	3:41 PM	35	35	0	P	BM	X		

Note: CAP information is located on Fusion Welding Summary

APPENDIX J.7 – GEOMEMBRANE DEFECT/REPAIR SUMMARY

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Defect / Repair Summary

Location: AT - Anchor Trench; TI - Tie In; N EOS - North End of Seam; E EOS - East End of Seam; S EOS - South End of Seam; W EOS - West End of Seam
Defect Type: FM - Fishmouth; BO - Burnout; W - Wrinkle; BS - Boot Skirt; DF - Fusion Destruct; DX - Extrusion Destruct; PU - Puncture; PT - Pressure Test; INT - Panel Intersection
FS - Failed Seam; DO - Damage by Others; WR - Welder Restart; IO - Insufficient Overlap; MD - Manufacturer Defect; FVT - Failed Vacuum Test
Defect Repair: P - Patch; C - Cap; B - Bead

Defect Date	Defect Number	Seam/Panel Number	Location	Defect Type	Defect Repair						Repair Vacuum Test				Remarks
					Repair Date	Time	Size	Type	Operator	Machine Number	Test Date	Tech	QA Monitor	P/F	
08/24/20	10115	P-3441/P-3713	325' N of SEOS	DF-1282	08/25/20	8:30 AM	2X5	DF-1282	WL	49	09/14/20	SB	BM	P	
08/24/20	10116	P-3713/P-3714	237' N of SEOS	DF-1283	08/27/20	4:00 PM	2X5	DF-1283	WL	49	09/14/20	SB	BM	P	
08/24/20	10117	P-3714/P-3715/P-3716	Intersection	INT	08/27/20	3:55 PM	2X2	P	WL	49	09/14/20	SB	BM	P	
08/24/20	10118	P-3714/P-3716/P-3717	Intersection	INT	08/27/20	9:11 AM	2X6	P	WL	49	09/14/20	SB	BM	P	
08/24/20	10119	P-3716/P-3717	245' N of SEOS	DF-1284	08/27/20	9:20 AM	2X5	DF-1284	WL	49	09/14/20	SB	BM	P	
08/24/20	10120	P-3717/P-3718	156' S of NEOS	DF-1285	08/27/20	-	-	DF-1285	-	-	-	-	-	-	Covered by D-10125
08/24/20	10121	P-3718/P-3719	125' S of NEOS	IO	08/27/20	10:10 AM	2X81	C	WL	49	09/14/20	SB	BM	P	
08/25/20	10122	P-3714/P-3715	10' N of SEOS	DF-1282N	08/26/20	3:27 PM	2X5	DF-1282N	WL	49	09/12/20	SB	BM	P	
08/25/20	10123	P-3720/P-3721	14' N of SEOS	DF-1286	08/26/20	4:00 PM	2X5	DF-1286	WL	49	09/12/20	SB	BM	P	
08/25/20	10124	P-3717/P-3718	136' S of NEOS	DF-1285P	08/25/20	11:20 AM	2X2	DF-1285P	WL	49	09/14/20	SB	BM	P	
08/25/20	10125	P-3717/P-3718	176' S of NEOS	DF-1285N	08/27/20	12:45 PM	2X25	DF-1285N	WL	49	09/14/20	SB	BM	P	Covers D-10120
08/26/20	10126	P-3721/P-3722	180' N of SEOS	DF-1287	08/27/20	4:10 PM	2X5	DF-1287	WL	49	09/14/20	SB	BM	P	
08/26/20	10127	P-3722/P-3723	16' N of SEOS	DF-1288	08/27/20	3:35 PM	2X5	DF-1288	WL	49	09/14/20	SB	BM	P	
08/26/20	10128	P-3724/P-3725	190' S of NEOS	DF-1289	09/11/20	9:55 AM	2X5	DF-1289	JA	25	09/14/20	SB	BM	P	
08/26/20	10129	P-3726/P-3727	55' N of SEOS	DF-1290	09/11/20	10:07 AM	2X5	DF-1290	JA	25	09/14/20	SB	BM	P	
08/26/20	10130	P-3727/P-3728	72' S of NEOS	DF-1291	08/27/20	4:27 PM	2X5	DF-1291	JA	25	09/14/20	SB	BM	P	
08/26/20	10131	P-3728/P-3729	231' S of NEOS	DF-1292	09/11/20	10:15 AM	2X5	DF-1292	JA	25	09/14/20	SB	BM	P	
08/26/20	10132	P-3729/P-3730	249' N of SEOS	DF-1293	08/29/20	11:20 AM	2X5	DF-1293	JLO	44	09/14/20	SB	BM	P	
08/26/20	10133	P-3732/P-3733	122' S of NEOS	DF-1294	08/31/20	9:33 AM	2X5	DF-1294	JLO	44	09/14/20	SB	BM	P	
08/27/20	10134	P-3735/P-3736	26' S of NEOS	DF-1295	08/31/20	9:59 AM	2X5	DF-1295	JLO	44	09/14/20	SB	BM	P	
08/27/20	10135	P-3734/P-3735	143' N of SEOS	DF-1296	08/31/20	9:44 AM	2X5	DF-1296	JLO	44	09/14/20	SB	BM	P	
08/27/20	10136	P-3737/P-3738	215' N of SEOS	DF-1297	08/31/20	10:14 AM	2X5	DF-1297	JLO	44	09/14/20	SB	BM	P	
08/27/20	10137	P-3738/P-3739	52' N of SEOS	DF-1298	09/11/20	11:38 AM	2X5	DF-1298	JA	25	09/14/20	SB	BM	P	
08/27/20	10138	P-3740/P-3741	244' S of NEOS	DF-1299	08/31/20	4:39 PM	2X5	DF-1299	JLO	44	09/14/20	SB	BM	P	
08/27/20	10139	P-3741/P-3742	130' N of SEOS	DF-1300	08/31/20	11:09 AM	2X5	DF-1300	JLO	44	09/14/20	SB	BM	P	
08/28/20	10140	P-3744/P-3745	41' N of SEOS	DF-1301	08/31/20	4:25 PM	2X5	DF-1301	JLO	44	09/14/20	SB	BM	P	
08/28/20	10141	P-3745/P-3746	156' N of SEOS	DF-1302	08/31/20	11:22 AM	2X5	DF-1302	JLO	44	09/14/20	SB	BM	P	
08/28/20	10142	P-3746/P-3747	229' S of NEOS	DF-1303	08/31/20	4:10 PM	2X5	DF-1303	JLO	44	09/14/20	SB	BM	P	
08/28/20	10143	P-3749/P-3750	44' N of SEOS	DF-1304	08/31/20	3:57 PM	2X5	DF-1304	JLO	44	09/15/20	SB	BM	P	
08/28/20	10144	P-3750/P-3751	100' S of NEOS	DF-1305	08/31/20	2:01 PM	2X9	DF-1305	JLO	44	09/15/20	SB	BM	P	Covers D-10145
08/28/20	10145	P-3750/P-3751/P-3752	Intersection	INT	08/31/20	-	-	-	JLO	44	-	-	-	-	Covered D-10144
08/28/20	10146	P-3751/P-3752/P-3755	Intersection	INT	08/31/20	2:25 PM	2X2	P	JLO	44	09/15/20	SB	BM	P	
08/28/20	10147	P-3752/P-3755	35' S of NEOS	DF-1306	08/31/20	2:47 PM	2X5	DF-1306	JLO	44	09/15/20	SB	BM	P	
08/28/20	10148	P-3750/P-3752/P-3753	Intersection	INT	08/31/20	3:28 PM	3X3	P	JLO	44	09/15/20	SB	BM	P	
08/28/20	10149	P-3752/P-3753/P-3755	Intersection	INT	08/31/20	2:51 PM	2X2	P	JLO	44	09/15/20	SB	BM	P	
08/28/20	10150	P-3750/P-3753/P-3754	Intersection	INT	08/31/20	3:47 PM	3X3	P	JLO	44	09/15/20	SB	BM	P	
08/29/20	10151	P-3112/P-3113/P-3441/P-3713	Intersection	INT	08/29/20	10:01 AM	2X15	P	JA	25	09/12/20	SB	BM	P	
08/29/20	10152	P-3111/P-3112/P-3713/P-3714	Intersection	INT	08/29/20	10:04 AM	3X4	P	JA	25	09/12/20	SB	BM	P	
08/29/20	10153	P-3110/P-3111/P-3714	Intersection	DX-263	08/29/20	11:45 AM	2X5	DX-263	JA	25	09/12/20	SB	BM	P	
08/29/20	10154	P-3110/P-3714/P-3715	Intersection	INT	08/29/20	11:25 AM	3X8	P	JA	25	09/12/20	SB	BM	P	
08/29/20	10155	CAP 3/P-3713	63' N of SEOS	DF-1307	08/31/20	10:42 AM	2X5	DF-1307	WL	49	09/14/20	SB	BM	P	See Note

Note: CAP information is located on Fusion Welding Summary

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Defect / Repair Summary

Location: AT - Anchor Trench; TI - Tie In; N EOS - North End of Seam; E EOS - East End of Seam; S EOS - South End of Seam; W EOS - West End of Seam
Defect Type: FM - Fishmouth; BO - Burnout; W - Wrinkle; BS - Boot Skirt; DF - Fusion Destruct; DX - Extrusion Destruct; PU - Puncture; PT - Pressure Test; INT - Panel Intersection
FS - Failed Seam; DO - Damage by Others; WR - Welder Restart; IO - Insufficient Overlap; MD - Manufacturer Defect; FVT - Failed Vacuum Test
Defect Repair: P - Patch; C - Cap; B - Bead

Defect Date	Defect Number	Seam/Panel Number	Location	Defect Type	Defect Repair						Repair Vacuum Test				Remarks
					Repair Date	Time	Size	Type	Operator	Machine Number	Test Date	Tech	QA Monitor	P/F	
08/29/20	10156	CAP 2/CAP 3/P-3441/P-3713	Intersection	INT	08/31/20	10:35 AM	4X4	P	WL	49	09/14/20	SB	BM	P	See Note
08/29/20	10157	CAP 1/CAP 2/P-3441/P-3713	Intersection	INT	08/31/20	10:05 AM	2X4	P	WL	49	09/14/20	SB	BM	P	See Note
08/29/20	10158	CAP 1/P-3441/P-3713	Intersection	INT	08/31/20	9:55 AM	3X4	P	WL	49	09/14/20	SB	BM	P	See Note
08/29/20	10159	CAP 3/CAP 4/P-3441/P-3713	Intersection	INT	08/31/20	11:25 AM	3X15	C	WL	49	09/14/20	SB	BM	P	See Note
08/29/20	10160	CAP 4/CAP 5/P-3441/P-3713	Intersection	INT	08/31/20	11:45 AM	2X8	P	WL	49	09/14/20	SB	BM	P	See Note
08/29/20	10161	P-3441/P-3713	22' N of SEOS	FS	08/31/20	8:55 AM	2X5	P	WL	49	09/14/20	SB	BM	P	
08/31/20	10162	CAP 3/P-3441	38' N of SEOS	PT	08/31/20	10:05 AM	2X2	P	WL	49	09/14/20	SB	BM	P	See Note
08/31/20	10163	CAP 3/P-3441	52' N of SEOS	PT	08/31/20	10:45 AM	2X2	P	WL	49	09/14/20	SB	BM	P	See Note
08/31/20	10164	CAP 4/P-3441	50' N of SEOS	PT	08/31/20	1:43 PM	2X12	P	WL	49	09/14/20	SB	BM	P	See Note
08/31/20	10165	CAP 5/P-3713	12' S of NEOS	PT	08/31/20	12:18 PM	2X2	P	WL	49	09/14/20	SB	BM	P	See Note
08/31/20	10166	CAP 5/P-3713	25' S of NEOS	PT	08/31/20	12:53 PM	2X2	P	WL	49	09/14/20	SB	BM	P	See Note
08/31/20	10167	CAP 5/P-3713	13' N of SEOS	DF-1308	08/31/20	1:00 PM	2X5	DF-1308	WL	49	09/14/20	SB	BM	P	See Note
08/31/20	10168	P-3109/P-3110/P-3715	Intersection	INT	08/31/20	8:00 AM	2X2	P	JA	25	09/14/20	SB	BM	P	
08/31/20	10169	P-3109/P-3715/P-3716	Intersection	INT	08/31/20	8:05 AM	2X2	P	JA	25	09/12/20	SB	BM	P	
08/31/20	10170	P-3108/P-3109/P-3716	Intersection	INT	08/31/20	8:03 AM	2X2	P	JA	25	09/12/20	SB	BM	P	
08/26/20	10171	P-3108/P-3716/P-3717	Intersection	INT	08/26/20	3:45 PM	2X3	P	WL	49	09/12/20	SB	BM	P	
08/31/20	10172	P-3107/P-3108/P-3717	Intersection	INT	08/31/20	9:05 AM	2X2	P	JA	25	09/12/20	SB	BM	P	
08/26/20	10173	P-3107/P-3717/P-3718	Intersection	INT	08/26/20	3:05 PM	2X2	P	WL	49	09/12/20	SB	BM	P	
08/31/20	10174	P-3106/P-3107/P-3718	Intersection	INT	08/31/20	9:03 AM	2X2	P	JA	25	09/12/20	SB	BM	P	
08/31/20	10175	P-3106/P-3718/P-3719	Intersection	INT	08/31/20	9:04 AM	3X4	P	JA	25	09/12/20	SB	BM	P	
08/31/20	10176	P-3105/P-3106/P-3719	Intersection	INT	08/31/20	10:05 AM	2X2	P	JA	25	09/12/20	SB	BM	P	
08/31/20	10177	P-3105/P-3719/P-3720	Intersection	INT	08/31/20	10:14 AM	3X5	P	JA	25	09/12/20	SB	BM	P	
08/31/20	10178	P-3104/P-3105/P-3720	Intersection	INT	08/31/20	10:03 AM	2X2	P	JA	25	09/12/20	SB	BM	P	
08/31/20	10179	P-3104/P-3720/P-3721	Intersection	INT	08/31/20	10:04 AM	2X6	P	JA	25	09/12/20	SB	BM	P	
08/31/20	10180	P-3103/P-3104/P-3721	Intersection	INT	08/31/20	10:05 AM	2X2	P	JA	25	09/12/20	SB	BM	P	
08/31/20	10181	P-3103/P-3721/P-3722	Intersection	INT	08/31/20	11:24 AM	3X4	P	JA	25	09/12/20	SB	BM	P	
08/31/20	10182	P-3102/P-3103/P-3722	Intersection	INT	08/31/20	11:03 AM	2X2	P	JA	25	09/12/20	SB	BM	P	
08/31/20	10183	P-3102/P-3722/P-3723	Intersection	INT	08/31/20	11:04 AM	2X2	P	JA	25	09/12/20	SB	BM	P	
08/31/20	10184	P-3101/P-3102/P-3723	Intersection	INT	08/31/20	11:05 AM	2X2	P	JA	25	09/12/20	SB	BM	P	
08/31/20	10185	P-3101/P-3723	3' W of EEOS	DX-264	08/31/20	2:04 PM	2X5	DX-264	JA	25	09/12/20	SB	BM	P	
08/31/20	10186	P-3101/P-3723/P-3724	Intersection	INT	08/31/20	1:04 PM	2X2	P	JA	25	09/12/20	SB	BM	P	
08/31/20	10187	P-3100/P-3101/P-3724	Intersection	INT	08/31/20	1:45 PM	2X2	P	JA	25	09/12/20	SB	BM	P	
08/31/20	10188	P-3100/P-3724/P-3725	Intersection	INT	08/31/20	1:55 PM	2X2	P	JA	25	09/12/20	SB	BM	P	
08/31/20	10189	P-3099/P-3100/P-3725	Intersection	INT	08/31/20	2:01 PM	2X2	P	JA	25	09/12/20	SB	BM	P	
08/31/20	10190	P-3099/P-3725/P-3726	Intersection	INT	08/31/20	2:25 PM	2X2	P	JA	25	09/12/20	SB	BM	P	
08/31/20	10191	P-3098/P-3099/P-3726	Intersection	INT	08/31/20	2:45 PM	2X2	P	JA	25	09/12/20	SB	BM	P	
08/31/20	10192	P-3098/P-3726/P-3727	Intersection	INT	08/31/20	2:47 PM	2X2	P	JA	25	09/12/20	SB	BM	P	
08/31/20	10193	P-3097/P-3098/P-3727	Intersection	INT	08/31/20	3:00 PM	2X2	P	JA	25	09/12/20	SB	BM	P	
08/31/20	10194	P-3097/P-3727/P-3728	Intersection	INT	08/31/20	3:11 PM	2X2	P	JA	25	09/12/20	SB	BM	P	
08/31/20	10195	P-3096/P-3097/P-3728	Intersection	INT	08/31/20	3:02 PM	2X2	P	JA	25	09/12/20	SB	BM	P	
08/31/20	10196	P-3096/P-3728/P-3729	Intersection	INT	08/31/20	3:33 PM	2X2	P	JA	25	09/12/20	SB	BM	P	

Note: CAP information is located on Fusion Welding Summary

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Defect / Repair Summary

Location: AT - Anchor Trench; TI - Tie In; N EOS - North End of Seam; E EOS - East End of Seam; S EOS - South End of Seam; W EOS - West End of Seam
Defect Type: FM - Fishmouth; BO - Burnout; W - Wrinkle; BS - Boot Skirt; DF - Fusion Destruct; DX - Extrusion Destruct; PU - Puncture; PT - Pressure Test; INT - Panel Intersection
FS - Failed Seam; DO - Damage by Others; WR - Welder Restart; IO - Insufficient Overlap; MD - Manufacturer Defect; FVT - Failed Vacuum Test
Defect Repair: P - Patch; C - Cap; B - Bead

Defect Date	Defect Number	Seam/Panel Number	Location	Defect Type	Defect Repair						Repair Vacuum Test				Remarks
					Repair Date	Time	Size	Type	Operator	Machine Number	Test Date	Tech	QA Monitor	P/F	
08/31/20	10197	P-3095/P-3096/P-3729	Intersection	INT	08/31/20	3:04 PM	2X2	P	JA	25	09/14/20	SB	BM	P	
08/31/20	10198	P-3095/P-3729/P-2730	Intersection	INT	08/31/20	3:55 PM	2X3	P	JA	25	09/14/20	SB	BM	P	
08/31/20	10199	P-3094/P-3095/P-3730	Intersection	INT	08/31/20	4:15 PM	2X2	P	JA	25	09/14/20	SB	BM	P	
08/31/20	10200	P-3094/P-3730/P-3731	Intersection	INT	08/31/20	4:23 PM	2X2	P	JA	25	09/14/20	SB	BM	P	
08/31/20	10201	P-3093/P-3094/P-3731	Intersection	INT	09/11/20	9:35 AM	2X2	P	JA	25	09/14/20	SB	BM	P	
08/31/20	10202	P-3093/P-3731/P-3732	Intersection	INT	09/11/20	9:40 AM	2X2	P	JA	25	09/14/20	SB	BM	P	
08/31/20	10203	P-3092/P-3093/P-3732	Intersection	INT	09/11/20	9:50 AM	2X2	P	JA	25	09/14/20	SB	BM	P	
08/31/20	10204	P-3092/P-3732/P-3733	Intersection	INT	09/11/20	10:47 AM	3X3	P	JA	25	09/14/20	SB	BM	P	
08/31/20	10205	P-3091/P-3092/P-3733	Intersection	INT	09/11/20	9:10 AM	2X2	P	JA	25	09/14/20	SB	BM	P	
08/31/20	10206	P-3091/P-3733/P-3734	Intersection	INT	08/31/20	3:20 PM	2X2	P	WL	49	09/14/20	SB	BM	P	
08/31/20	10207	P-3090/P-3091/P-3734	Intersection	INT	08/31/20	3:28 PM	2X2	P	WL	49	09/14/20	SB	BM	P	
08/31/20	10208	P-3090/P-3734/P-3735	Intersection	INT	08/31/20	3:35 PM	2X2	P	WL	49	09/14/20	SB	BM	P	
08/31/20	10209	P-3087/P-3090/P-3735	Intersection	INT	08/31/20	3:45 PM	2X2	P	WL	49	09/14/20	SB	BM	P	
08/31/20	10210	P-3086/P-3087/P-3735/P-3736	Intersection	INT	08/31/20	3:58 PM	3X3	P	WL	49	09/14/20	SB	BM	P	
08/31/20	10211	P-3085/P-3086/P-3736/P-3737	Intersection	INT	08/31/20	4:25 PM	2X8	P	WL	49	09/14/20	SB	BM	P	
08/31/20	10212	P-3082/P-3085/P-3737/P-3738	Intersection	INT	08/31/20	4:40 PM	2X3	P	WL	49	09/14/20	SB	BM	P	
08/31/20	10213	P-3080/P-3082/P-3738/P-3739	Intersection	INT	09/11/20	11:15 AM	2X4	P	JA	25	09/14/20	SB	BM	P	
08/31/20	10214	P-3079/P-3080/P-3739/P-3740	Intersection	INT	09/11/20	11:49 AM	2X2	P	JA	25	09/14/20	SB	BM	P	
09/01/20	10215	P-3090/P-3735	3' W of EEOS	DX-265	09/11/20	11:00 AM	2X5	DX-265	JA	25	09/14/20	SB	BM	P	
09/01/20	10216	P-3755/P-3756/P-3757	Intersection	INT	09/12/20	1:15 PM	2X6	P	JA	25	09/15/20	SB	BM	P	
09/01/20	10217	P-3755/P-3757/P-3758	Intersection	INT	09/12/20	9:48 AM	2X2	P	JA	25	09/15/20	SB	BM	P	
09/01/20	10218	P-3755/P-3758	16' S of NEOS	DF-1309	09/12/20	10:00 AM	2X5	DF-1309	JA	25	09/15/20	SB	BM	P	
09/01/20	10219	P-3757/P-3758/P-3761	Intersection	INT	09/12/20	10:08 AM	2X2	P	JA	25	09/15/20	SB	BM	P	
09/01/20	10220	P-3757/P-3760/P-3761	Intersection	INT	09/12/20	10:30 AM	3X4	P	JA	25	09/15/20	SB	BM	P	
09/01/20	10221	P-3760/P-3761/P-3763	Intersection	INT	09/12/20	10:45 AM	5X5	P	JA	25	09/15/20	SB	BM	P	
09/01/20	10222	P-3759/P-3762/P-3763	Intersection	INT	09/12/20	11:16 AM	2X2	P	JA	25	09/15/20	SB	BM	P	
09/01/20	10223	P-3762/P-3763/P-3765	Intersection	INT	09/12/20	11:32 AM	2X2	P	JA	25	09/15/20	SB	BM	P	
09/01/20	10224	P-3759/P-3760/P-3762	Intersection	INT	09/12/20	11:39 AM	2X2	P	JA	25	09/15/20	SB	BM	P	
09/01/20	10225	P-3757/P-3759/P-3760	Intersection	INT	09/12/20	11:48 AM	2X3	P	JA	25	09/15/20	SB	BM	P	
09/01/20	10226	P-3756/P-3757/P-3759	Intersection	INT	09/12/20	1:21 PM	2X5	P	JA	25	09/15/20	SB	BM	P	
09/01/20	10227	P-3762/P-3765	7' S of NEOS	DF-1310	09/12/20	1:35 PM	2X5	DF-1310	JA	25	09/15/20	SB	BM	P	
09/01/20	10228	P-3762/P-3764/P-3765	Intersection	INT	09/12/20	1:45 PM	2X5	P	JA	25	09/15/20	SB	BM	P	
09/01/20	10229	P-3764/P-3765/P-3766	Intersection	INT	09/12/20	2:16 PM	2X8	P	JA	25	09/15/20	SB	BM	P	
09/01/20	10230	P-3764/P-3765	8' W of EEOS	BO	09/12/20	1:50 PM	2X2	P	JA	25	09/15/20	SB	BM	P	
09/01/20	10231	P-3767/P-3768/P-3769	Intersection	INT	09/12/20	2:55 PM	2X7	P	JA	25	09/15/20	SB	BM	P	
09/01/20	10232	P-3766/P-3767/P-3769	Intersection	INT	09/12/20	2:42 PM	2X4	P	JA	25	09/15/20	SB	BM	P	
09/01/20	10233	P-3765/P-3766/P-3769	Intersection	INT	09/12/20	2:23 PM	2X2	P	JA	25	09/15/20	SB	BM	P	
09/01/20	10234	P-3763/P-3765/P-3769	Intersection	INT	09/12/20	10:50 AM	2X4	P	JA	25	09/15/20	SB	BM	P	
09/01/20	10235	P-3761/P-3763/P-3769	Intersection	INT	09/12/20	10:14 AM	2X3	P	JA	25	09/15/20	SB	BM	P	
09/01/20	10236	P-3758/P-3761/P-3769	Intersection	INT	09/12/20	9:38 AM	3X16	C	JA	25	09/15/20	SB	BM	P	
09/01/20	10237	P-3755/P-3758/P-3769	Intersection	INT	09/12/20	8:42 AM	2X2	P	JA	25	09/15/20	SB	BM	P	

Note: CAP information is located on Fusion Welding Summary

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Defect / Repair Summary

Location: AT - Anchor Trench; TI - Tie In; N EOS - North End of Seam; E EOS - East End of Seam; S EOS - South End of Seam; W EOS - West End of Seam
Defect Type: FM - Fishmouth; BO - Burnout; W - Wrinkle; BS - Boot Skirt; DF - Fusion Destruct; DX - Extrusion Destruct; PU - Puncture; PT - Pressure Test; INT - Panel Intersection
FS - Failed Seam; DO - Damage by Others; WR - Welder Restart; IO - Insufficient Overlap; MD - Manufacturer Defect; FVT - Failed Vacuum Test
Defect Repair: P - Patch; C - Cap; B - Bead

Defect Date	Defect Number	Seam/Panel Number	Location	Defect Type	Defect Repair						Repair Vacuum Test				Remarks
					Repair Date	Time	Size	Type	Operator	Machine Number	Test Date	Tech	QA Monitor	P/F	
09/01/20	10238	P-3753/P-3755/P-3769	Intersection	INT	09/12/20	8:30 AM	2X2	P	JA	25	09/15/20	SB	BM	P	
09/01/20	10239	P-3753/P-3754/P-3769	Intersection	INT	09/12/20	8:20 AM	2X2	P	JA	25	09/15/20	SB	BM	P	
09/01/20	10240	P-3754/P-3769	7' S of NEOS	W	09/12/20	8:00 AM	2X4	P	JA	25	09/15/20	SB	BM	P	
09/01/20	10241	P-3750/P-3754/P-3769	Intersection	INT	09/12/20	-	-	P	JA	25	-	-	-	-	COVERED BY D-10242
09/01/20	10242	P-3750/P-3769	5' S of NEOS	DF-1311	09/12/20	7:30 AM	3X8	DF-1311	JA	25	09/15/20	SB	BM	P	COVERS D-10241
09/01/20	10243	P-3769/P-3770	52' S of NEOS	DF-1312	09/12/20	2:36 PM	2X5	DF-1312	JA	25	09/15/20	SB	BM	P	
09/01/20	10244	P-3771/P-3772/P-3773	Intersection	INT	09/14/20	9:10 AM	2X2	P	AA	25	09/15/20	SB	BM	P	
09/01/20	10245	P-3773/P-3774/P-3776	Intersection	INT	09/14/20	9:25 AM	2X7	P	AA	25	09/15/20	SB	BM	P	
09/01/20	10246	P-3770/P-3771/P-3773	Intersection	INT	09/14/20	-	-	P	WL	49	-	-	-	-	COVERED BY D-10247
09/01/20	10247	P-3770/P-3773	11' S of NEOS	DF-1313	09/14/20	8:50 AM	2X20	DF-1313	WL	49	09/15/20	SB	BM	P	COVERS D-10246/10248
09/01/20	10248	P-3770/P-3773/P-3775	Intersection	INT	09/14/20	-	-	P	WL	49	-	-	-	-	COVERED BY D-10247
09/01/20	10249	P-3773/P-3775/P-3776	Intersection	INT	09/14/20	8:38 AM	2X8	C	WL	49	09/15/20	SB	BM	P	
09/01/20	10250	P-3775/P-3776/P-3777	Intersection	INT	09/14/20	8:20 AM	3X3	P	WL	49	09/15/20	SB	BM	P	
09/01/20	10251	P-3770/P-3775/P-3777	Intersection	INT	09/14/20	8:28 AM	2X4	P	WL	49	09/15/20	SB	BM	P	
09/01/20	10252	P-3774/P-3776/P-3778	Intersection	INT	09/14/20	9:15 AM	2X2	P	WL	49	09/15/20	SB	BM	P	
09/01/20	10253	P-3776/P-3777/P-3778	Intersection	INT	09/14/20	8:10 AM	2X2	P	WL	49	09/15/20	SB	BM	P	
09/01/20	10254	P-3770/P-3777/P-3778	Intersection	INT	09/14/20	9:28 AM	3X10	C	WL	49	09/15/20	SB	BM	P	
09/01/20	10255	P-3778/P-3780	144' S of NEOS	DF-1314	09/14/20	8:05 AM	2X9	DF-1314	WL	49	09/15/20	SB	BM	P	COVERS D-10256
09/01/20	10256	P-3778/P-3780/P-3781	Intersection	INT	09/14/20	-	-	-	WL	49	09/15/20	SB	BM	P	COVERED BY D-10255
09/01/20	10257	P-3780/P-3781/P-3783	Intersection	INT	09/14/20	3:45 PM	2X2	P	WL	49	09/15/20	SB	BM	P	
09/01/20	10258	P-3770/P-3778/P-3779	Intersection	INT	09/14/20	9:50 AM	2X6	P	WL	49	09/15/20	SB	BM	P	
09/01/20	10259	P-3778/P-3779/P-3781	Intersection	INT	09/14/20	10:00 AM	2X2	P	WL	49	09/15/20	SB	BM	P	
09/01/20	10260	P-3779/P-3781/P-3782	Intersection	INT	09/14/20	10:05 AM	2X4	P	WL	49	09/15/20	SB	BM	P	
09/01/20	10261	P-3781/P-3782/P-3783	Intersection	INT	09/14/20	10:27 AM	2X2	P	WL	49	09/15/20	SB	BM	P	
09/01/20	10262	P-3782	3' S of NEOS/7' E	DO	09/14/20	10:12 AM	2X2	P	WL	49	09/15/20	SB	BM	P	
09/01/20	10263	P-3782	3' S of NEOS/10' E	DO	09/14/20	10:08 AM	2X2	P	WL	49	09/15/20	SB	BM	P	
09/01/20	10264	P-3782	7' S of NEOS/10' E	DO	09/14/20	10:16 AM	2X2	P	WL	49	09/15/20	SB	BM	P	
09/01/20	10265	P-3770/P-3779/P-3782	Intersection	INT	09/14/20	10:26 AM	3X4	P	WL	49	09/15/20	SB	BM	P	
09/02/20	10266	P-3780/P-3783	99' N of SEOS	DF-1315	09/14/20	9:05 AM	2X5	DF-1315	AA	25	09/15/20	SB	BM	P	
09/02/20	10267	P-3784/P-3785	11' S of NEOS	DF-1316	09/14/20	8:45 AM	2X5	DF-1316	AA	25	09/16/20	SB	BM	P	
09/02/20	10268	P-3783/P-3784/P-3785	Intersection	INT	09/14/20	9:00 AM	2X4	P	AA	25	09/16/20	SB	BM	P	
09/02/20	10269	P-3783/P-3785/P-3786	Intersection	INT	09/14/20	10:00 AM	2X7	P	AA	25	09/16/20	SB	BM	P	
09/02/20	10270	P-3785/P-3786/P-3787	Intersection	INT	09/14/20	10:10 AM	2X2	P	AA	25	09/16/20	SB	BM	P	
09/02/20	10271	P-3783/P-3786/P-3787	Intersection	INT	09/12/20	3:05 PM	3X4	P	WL	49	09/16/20	SB	BM	P	
09/02/20	10272	P-3783/P-3787	48' S of NEOS	BO	09/12/20	3:26 PM	3X6	P	WL	49	09/16/20	SB	BM	P	
09/02/20	10273	P-3787/P-3788/P-3789	Intersection	INT	09/14/20	11:06 AM	3X4	P	WL	49	09/16/20	SB	BM	P	
09/02/20	10274	P-3783/P-3787/P-3789	Intersection	INT	09/14/20	11:00 AM	3X6	P	WL	49	09/16/20	SB	BM	P	
09/02/20	10275	P-3783/P-3789/P-3790	Intersection	INT	09/12/20	1:18 PM	2X3	P	WL	49	09/15/20	SB	BM	P	
09/02/20	10276	P-3790/P-3793/P-3794	Intersection	INT	09/12/20	1:25 PM	2X2	P	WL	49	09/15/20	SB	BM	P	
09/02/20	10277	P-3788/P-3789/P-3790	Intersection	INT	09/14/20	11:35 AM	2X2	P	WL	49	09/16/20	SB	BM	P	
09/02/20	10278	P-3789	4' S of NEOS/8' E	DO	09/14/20	11:10 AM	2X2	P	WL	49	09/16/20	SB	BM	P	

Note: CAP information is located on Fusion Welding Summary

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Defect / Repair Summary

Location: AT - Anchor Trench; TI - Tie In; N EOS - North End of Seam; E EOS - East End of Seam; S EOS - South End of Seam; W EOS - West End of Seam
Defect Type: FM - Fishmouth; BO - Burnout; W - Wrinkle; BS - Boot Skirt; DF - Fusion Destruct; DX - Extrusion Destruct; PU - Puncture; PT - Pressure Test; INT - Panel Intersection
FS - Failed Seam; DO - Damage by Others; WR - Welder Restart; IO - Insufficient Overlap; MD - Manufacturer Defect; FVT - Failed Vacuum Test
Defect Repair: P - Patch; C - Cap; B - Bead

Defect Date	Defect Number	Seam/Panel Number	Location	Defect Type	Defect Repair						Repair Vacuum Test				Remarks
					Repair Date	Time	Size	Type	Operator	Machine Number	Test Date	Tech	QA Monitor	P/F	
09/02/20	10279	P-3790/P-3792/P-3793	Intersection	INT	09/12/20	2:35 PM	2X2	P	WL	49	09/16/20	SB	BM	P	
09/02/20	10280	P-3788/P-3790	119' S of NEOS	DF-1317	09/12/20	2:48 PM	2X5	DF-1317	WL	49	09/16/20	SB	BM	P	
09/02/20	10281	P-3792/P-3793/P-3795	Intersection	INT	09/12/20	2:38 PM	2X2	P	WL	49	09/16/20	SB	BM	P	
09/02/20	10282	P-3790/P-3791/P-3792	Intersection	INT	09/14/20	11:10 AM	2X4	P	AA	25	09/16/20	SB	BM	P	
09/02/20	10283	P-3791/P-3792	10' W of EEOS	DF-1318	09/14/20	11:15 AM	2X5	DF-1318	AA	25	09/16/20	SB	BM	P	
09/02/20	10284	P-3791/P-3792/P-3795	Intersection	INT	09/14/20	11:20 AM	2X3	P	AA	25	09/16/20	SB	BM	P	
09/02/20	10285	P-3790/P-3793/P-3794	47' S of NEOS	W	09/12/20	2:33 PM	2X5	P	WL	49	09/16/20	SB	BM	P	
09/02/20	10286	P-3793/P-3794/P-3795	Intersection	INT	09/12/20	2:20 PM	2X2	P	WL	49	09/16/20	SB	BM	P	
09/02/20	10287	P-3790/P-3794	17' S of NEOS	W	09/12/20	1:12 PM	3X3	P	WL	49	09/15/20	SB	BM	P	
09/02/20	10288	P-3791/P-3795	29' N of SEOS	DF-1319	09/14/20	11:26 AM	2X5	DF-1319	WL	49	09/16/20	SB	BM	P	
09/02/20	10289	P-3795/P-3796	187' N of SEOS	DF-1320	09/14/20	12:45 PM	2X5	DF-1320	WL	49	09/16/20	SB	BM	P	
09/02/20	10290	P-3797/P-3798/P-3799	Intersection	INT	09/14/20	11:40 AM	2X5	P	AA	25	09/16/20	SB	BM	P	
09/02/20	10291	P-3798/P-3799/P-3800	Intersection	INT	09/14/20	11:45 AM	2X2	P	AA	25	09/16/20	SB	BM	P	
09/02/20	10292	P-3799/P-3800/P-3801	Intersection	INT	09/14/20	1:25 PM	2X6	P	WL	49	09/16/20	SB	BM	P	
09/02/20	10293	P-3800/P-3801/P-3802	Intersection	INT	09/14/20	1:40 PM	2X11	C	WL	49	09/16/20	SB	BM	P	COVERS D-10461
09/02/20	10294	P-3799/P-3800	70' N of SEOS	DF-1322	09/14/20	2:12 PM	2X5	DF-1322	WL	49	09/16/20	SB	BM	P	
09/02/20	10295	P-3801/P-3802/P-3803	Intersection	INT	09/14/20	2:50 PM	2X8	P	WL	49	09/16/20	SB	BM	P	
09/02/20	10296	P-3802/P-3803/P-3805	Intersection	INT	09/14/20	2:00 PM	2X2	P	WL	49	09/16/20	SB	BM	P	
09/02/20	10297	P-3797/P-3799	249' S of NEOS	DF-1321	09/11/20	4:00 PM	2X5	DF-1321	WL	49	09/16/20	SB	BM	P	
09/02/20	10298	P-3801/P-3803/P-3804	Intersection	INT	09/14/20	12:00 AM	2X6	P	WL	49	09/16/20	SB	BM	P	
09/02/20	10299	P-3803/P-3804/P-3805	Intersection	INT	09/14/20	2:25 PM	2X3	P	WL	49	09/16/20	SB	BM	P	
09/02/20	10300	P-3802/P-3805	121' N of SEOS	DF-1323	09/14/20	2:30 PM	2X5	DF-1323	AA	25	09/16/20	SB	BM	P	
09/02/20	10301	P-3805/P-3806	14' S of NEOS	DF-1324	09/14/20	2:23 PM	2X5	DF-1324	AA	25	09/16/20	SB	BM	P	
09/03/20	10302	P-3806/P-3807	340' S of NEOS	W	09/14/20	3:50 PM	2X4	P	WL	49	09/16/20	SB	BM	P	
09/03/20	10303	P-3807/P-3808	132' N of SEOS	DF-1325	09/14/20	2:03 PM	2X5	DF-1325	AA	25	09/16/20	SB	BM	P	
09/03/20	10304	P-3808/P-3809	44' N of SEOS	DF-1326	09/14/20	2:55 PM	2X5	DF-1326	AA	25	09/16/20	SB	BM	P	
09/03/20	10305	P-3809/P-3810	241' S of NEOS	DF-1327	09/14/20	2:08 PM	2X5	DF-1327	AA	25	09/16/20	SB	BM	P	
09/03/20	10306	P-3810/P-3811	143' S of NEOS	DF-1328	09/14/20	3:52 PM	2X5	DF-1328	AA	25	09/16/20	SB	BM	P	
09/03/20	10307	P-3811/P-3812	334' N of SEOS	DF-1329	09/14/20	3:45 PM	2X5	DF-1329	AA	25	09/16/20	SB	BM	P	
09/03/20	10308	P-3812/P-3813	224' N of SEOS	DF-1330	09/14/20	4:02 PM	2X5	DF-1330	AA	25	09/16/20	SB	BM	P	
09/03/20	10309	P-3813/P-3815	132' S of NEOS	W	09/14/20	4:10 PM	3X3	P	AA	25	09/16/20	SB	BM	P	
09/03/20	10310	P-3815/P-3818	193' S of NEOS	DF-1331	09/15/20	9:10 AM	2X5	DF-1331	AA	25	09/16/20	SB	BM	P	
09/03/20	10311	P-3812/P-3813/P-3814	Intersection	INT	09/14/20	3:35 PM	2X3	P	WL	49	09/16/20	SB	BM	P	
09/03/20	10312	P-3812/P-3814	12' W of EEOS	DF-1332	09/14/20	3:40 PM	2X5	DF-1332	WL	49	09/16/20	SB	BM	P	
09/03/20	10313	P-3813/P-3814/P-3816	Intersection	INT	09/14/20	3:45 PM	2X5	P	WL	49	09/16/20	SB	BM	P	
09/03/20	10314	P-3813/P-3815/P-3816	Intersection	INT	09/14/20	3:50 PM	2X3	P	WL	49	09/16/20	SB	BM	P	
09/03/20	10315	P-3815/P-3816/P-3818	Intersection	INT	09/14/20	3:55 PM	2X3	P	WL	49	09/16/20	SB	BM	P	
09/03/20	10316	P-3818/P-3819/P-3820	Intersection	INT	09/14/20	4:15 PM	2X2	P	WL	49	09/16/20	SB	BM	P	
09/03/20	10317	P-3819/P-3820/P-3822	Intersection	INT	09/14/20	4:20 PM	2X2	P	WL	49	09/16/20	SB	BM	P	
09/03/20	10318	P-3815/P-3817/P-3818	Intersection	INT	09/15/20	10:12 AM	4X5	P	AA	25	09/16/20	SB	BM	P	
09/03/20	10319	P-3817/P-3818/P-3819	Intersection	INT	09/15/20	10:15 AM	2X2	P	AA	25	09/16/20	SB	BM	P	

Note: CAP information is located on Fusion Welding Summary

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Defect / Repair Summary

Location: AT - Anchor Trench; TI - Tie In; N EOS - North End of Seam; E EOS - East End of Seam; S EOS - South End of Seam; W EOS - West End of Seam
Defect Type: FM - Fishmouth; BO - Burnout; W - Wrinkle; BS - Boot Skirt; DF - Fusion Destruct; DX - Extrusion Destruct; PU - Puncture; PT - Pressure Test; INT - Panel Intersection
FS - Failed Seam; DO - Damage by Others; WR - Welder Restart; IO - Insufficient Overlap; MD - Manufacturer Defect; FVT - Failed Vacuum Test
Defect Repair: P - Patch; C - Cap; B - Bead

Defect Date	Defect Number	Seam/Panel Number	Location	Defect Type	Defect Repair						Repair Vacuum Test				Remarks
					Repair Date	Time	Size	Type	Operator	Machine Number	Test Date	Tech	QA Monitor	P/F	
09/03/20	10320	P-3817/P-3819	9' N of SEOS	DF-1333	09/15/20	10:23 AM	2X5	DF-1333	AA	25	09/16/20	SB	BM	P	
09/03/20	10321	P-3921	6' N of SEOS/7' E	DO	09/15/20	10:42 AM	2X2	P	AA	25	09/16/20	SB	BM	P	
09/03/20	10322	P-3819/P-3821/P-3822	Intersection	INT	09/15/20	10:37 AM	2X2	P	AA	25	09/16/20	SB	BM	P	
09/03/20	10323	P-3819/P-3822	218' N of SEOS	DF-1334	09/15/20	9:37 AM	2X5	DF-1334	WL	49	09/16/20	SB	BM	P	
09/03/20	10324	P-3822/P-3823/P-3824	Intersection	INT	09/15/20	9:58 AM	3X3	P	WL	49	09/16/20	SB	BM	P	
09/03/20	10325	P-3822/P-3824/P-3825	Intersection	INT	09/15/20	1:30 PM	2X3	P	WL	49	09/16/20	SB	BM	P	
09/03/20	10326	P-3824/P-3825/P-3827	Intersection	INT	09/15/20	1:20 PM	2X3	P	WL	49	09/16/20	SB	BM	P	
09/03/20	10327	P-3822/P-3825/P-3826	Intersection	INT	09/15/20	3:05 PM	2X2	P	WL	49	09/16/20	SB	BM	P	
09/03/20	10328	P-3825/P-3826/P-3827	Intersection	INT	09/15/20	-	-	P	WL	49	09/16/20	SB	BM	P	COVERED BY D-10462
09/03/20	10329	P-3827/P-3828/P-3829	Intersection	INT	09/15/20	1:10 PM	2X10	P	WL	49	09/16/20	SB	BM	P	
09/03/20	10330	P-3827/P-3829/P-3830	Intersection	INT	09/15/20	2:45 PM	2X2	P	WL	49	09/16/20	SB	BM	P	
09/03/20	10331	P-3829/P-3830/P-3831	Intersection	INT	09/15/20	2:40 PM	2X2	P	WL	49	09/16/20	SB	BM	P	
09/03/20	10332	P-3829/P-3831	24' N of SEOS	DF-1336	09/15/20	2:10 PM	2X5	DF-1336	WL	49	09/16/20	SB	BM	P	
09/03/20	10333	P-3829/P-3831/P-3832	Intersection	INT	09/15/20	1:40 PM	2X2	P	WL	49	09/16/20	SB	BM	P	
09/03/20	10334	P-3828/P-3829	10' W of SEOS	DF-1335	09/15/20	12:50 PM	2X5	DF-1335	WL	49	09/16/20	SB	BM	P	
09/04/20	10335	P-3833/P-3834/P-3835	Intersection	INT	09/15/20	2:20 PM	3X13	C	WL	49	09/16/20	SB	BM	P	COVERS D-10336
09/04/20	10336	P-3831/P-3833/P-3835	Intersection	INT	09/15/20	-	-	P	WL	49	09/16/20	SB	BM	P	COVERED BY D-10355
09/04/20	10337	P-3835/P-3837/P-3838	Intersection	INT	09/15/20	3:45 PM	2X7	P	WL	49	09/16/20	SB	BM	P	
09/04/20	10338	P-3837/P-3838/P-3839	Intersection	INT	09/15/20	3:35 PM	2X3	P	WL	49	09/16/20	SB	BM	P	
09/04/20	10339	P-3835/P-3836/P-3837	Intersection	INT	09/15/20	2:00 PM	2X2	P	WL	49	09/16/20	SB	BM	P	
09/04/20	10340	P-3831/P-3832/P-3836	Intersection	INT	09/15/20	1:50 PM	3X5	P	WL	49	09/16/20	SB	BM	P	
09/04/20	10341	P-3828/P-3829/P-3832/P-3836/P-3837	Intersection	INT	09/15/20	12:55 PM	3X10	C	WL	49	09/16/20	SB	BM	P	
09/04/20	10342	P-3827/P-3828/P-3837/P-3839	Intersection	INT	09/15/20	10:25 AM	3X7	P	WL	49	09/16/20	SB	BM	P	
09/04/20	10343	P-3823/P-3824/P-3827/P-3829	Intersection	INT	09/15/20	10:07 AM	2X14	C	WL	49	09/16/20	SB	BM	P	COVERS D-10344
09/04/20	10344	P-3823/P-3839/P-3840	Intersection	INT	09/15/20	-	-	P	WL	49	-	-	-	-	COVERED BY D-10343
09/04/20	10345	P-3821/P-3822/P-3823/P-3840	Intersection	INT	09/15/20	10:55 AM	3X13	C	AA	25	09/16/20	SB	BM	P	COVERS D-10346
09/04/20	10346	P-3821/P-3840/P-3844/P-3845	Intersection	INT	09/15/20	-	-	P	AA	25	-	-	-	-	COVERED BY D-10345
09/04/20	10347	P-3821/P-3844	20' S of NEOS	DF-1338	09/15/20	11:33 AM	2X5	DF-1338	AA	25	09/16/20	SB	BM	P	
09/04/20	10348	P-3819/P-3821/P-3844	Intersection	INT	09/15/20	11:25 AM	3X13	C	AA	25	09/16/20	SB	BM	P	
09/04/20	10349	P-3819/P-3844/P-3846/P-3847	Intersection	INT	09/15/20	11:34 AM	3X3	P	AA	25	09/16/20	SB	BM	P	
09/04/20	10350	P-3817/P-3819/P-3846/P-3848	Intersection	INT	09/15/20	9:45 AM	3X10	P	AA	25	09/16/20	SB	BM	P	
09/04/20	10351	P-3844/P-3845/P-3847	Intersection	INT	09/15/20	11:00 AM	2X3	P	AA	25	09/16/20	SB	BM	P	
09/04/20	10352	P-3840/P-3845	125' S of NEOS	DF-1339	09/15/20	11:05 AM	2X5	DF-1339	WL	49	09/16/20	SB	BM	P	
09/04/20	10353	P-3840/P-3841/P-3845	Intersection	INT	09/15/20	11:55 AM	2X2	P	WL	49	09/16/20	SB	BM	P	
09/04/20	10354	P-3839/P-3840/P-3841	Intersection	INT	09/15/20	10:40 AM	2X6	P	WL	49	09/16/20	SB	BM	P	
09/04/20	10355	P-3841/P-3842/P-3845	Intersection	INT	09/15/20	11:25 AM	2X4	P	WL	49	09/16/20	SB	BM	P	
09/04/20	10356	P-3839/P-3841/P-3842	Intersection	INT	09/15/20	11:10 AM	2X3	P	WL	49	09/16/20	SB	BM	P	
09/04/20	10357	P-3837/P-3839	81' S of NEOS	DF-1337	09/15/20	11:35 AM	2X5	DF-1337	WL	49	09/16/20	SB	BM	P	
09/04/20	10358	P-3839/P-3842/P-3843	Intersection	INT	09/15/20	4:00 PM	3X4	P	WL	49	09/16/20	SB	BM	P	
09/04/20	10359	P-3842/P-3843/P-3845	Intersection	INT	09/15/20	4:10 PM	3X4	P	WL	49	09/16/20	SB	BM	P	
09/04/20	10360	P-3845/P-3847	282' S of NEOS	DF-1340	09/15/20	4:15 PM	2X5	DF-1340	WL	49	09/16/20	SB	BM	P	

Note: CAP information is located on Fusion Welding Summary

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Defect / Repair Summary

Location: AT - Anchor Trench; TI - Tie In; N EOS - North End of Seam; E EOS - East End of Seam; S EOS - South End of Seam; W EOS - West End of Seam
Defect Type: FM - Fishmouth; BO - Burnout; W - Wrinkle; BS - Boot Skirt; DF - Fusion Destruct; DX - Extrusion Destruct; PU - Puncture; PT - Pressure Test; INT - Panel Intersection
FS - Failed Seam; DO - Damage by Others; WR - Welder Restart; IO - Insufficient Overlap; MD - Manufacturer Defect; FVT - Failed Vacuum Test
Defect Repair: P - Patch; C - Cap; B - Bead

Defect Date	Defect Number	Seam/Panel Number	Location	Defect Type	Defect Repair						Repair Vacuum Test				Remarks
					Repair Date	Time	Size	Type	Operator	Machine Number	Test Date	Tech	QA Monitor	P/F	
09/04/20	10361	P-3847/P-3848/P-3849	Intersection	INT	09/16/20	7:53 AM	2X2	P	WL	49	09/16/20	SB	BM	P	
09/04/20	10362	P-3848/P-3849/P-3851	Intersection	INT	09/16/20	8:00 AM	2X3	P	WL	49	09/16/20	SB	BM	P	
09/04/20	10363	P-3847/P-3848	165' S of NEOS	DF-1341	09/15/20	11:45 AM	2X5	DF-1341	WL	49	09/16/20	SB	BM	P	
09/04/20	10364	P-3851/P-3852/P-3853	Intersection	INT	09/15/20	1:40 PM	2X4	P	AA	25	09/16/20	SB	BM	P	
09/04/20	10365	P-3848/P-3850/P-3851	Intersection	INT	09/15/20	11:40 AM	2X2	P	AA	25	09/16/20	SB	BM	P	
09/04/20	10366	P-3850/P-3851/P-3852	Intersection	INT	09/15/20	11:45 AM	2X3	P	AA	25	09/16/20	SB	BM	P	
09/04/20	10367	P-3815	4' S of NEOS/10' E	DO	09/15/20	8:55 AM	2X2	P	AA	25	09/16/20	SB	BM	P	
09/04/20	10368	P-3815	11' S of NEOS/10' E	DO	09/15/20	8:05 AM	2X2	P	AA	25	09/16/20	SB	BM	P	
09/04/20	10369	P-3852/P-3854	10' S of NEOS	DF-1342	09/15/20	1:05 PM	2X5	DF-1342	AA	25	09/17/20	SB	BM	P	
09/04/20	10370	P-3852/P-3854/P-3855	Intersection	INT	09/15/20	1:18 PM	2X2	P	AA	25	09/17/20	SB	BM	P	
09/04/20	10371	P-3854/P-3855/P-3857	Intersection	INT	09/15/20	1:25 PM	2X3	P	AA	25	09/17/20	SB	BM	P	
09/04/20	10372	P-3852/P-3853/P-3855	Intersection	INT	09/15/20	1:32 PM	3X3	P	AA	25	09/17/20	SB	BM	P	
09/04/20	10373	P-3853/P-3855/P-3856	Intersection	INT	09/15/20	2:45 PM	3X5	P	AA	25	09/17/20	SB	BM	P	
09/04/20	10374	P-3855/P-3856/P-3857	Intersection	INT	09/15/20	2:05 PM	2X2	P	AA	25	09/17/20	SB	BM	P	
09/04/20	10375	P-3856/P-3857/P-3858	Intersection	INT	09/16/20	8:05 AM	2X3	P	WL	49	09/17/20	SB	BM	P	
09/04/20	10376	P-3857/P-3858/P-3859	Intersection	INT	09/16/20	9:00 AM	2X2	P	WL	49	09/17/20	SB	BM	P	
09/04/20	10377	P-3853/P-3856	68' S of NEOS	BO	09/16/20	8:35 AM	3X6	P	WL	49	09/17/20	SB	BM	P	
09/04/20	10378	P-3853/P-3856	92' S of NEOS	BO	09/16/20	8:02 AM	3X7	P	WL	49	09/17/20	SB	BM	P	
09/04/20	10379	P-3858/P-3859/P-3860	Intersection	INT	09/16/20	9:05 AM	2X3	P	WL	49	09/17/20	SB	BM	P	
09/04/20	10380	P-3859/P-3861/P-3862	Intersection	INT	09/16/20	3:00 PM	2X2	P	AA	25	09/17/20	SB	BM	P	
09/04/20	10381	P-3859/P-3860/P-3862	Intersection	INT	09/16/20	9:02 AM	2X2	P	WL	49	09/17/20	SB	BM	P	
09/04/20	10382	P-3860/P-3862/P-3863	Intersection	INT	09/16/20	9:38 AM	2X2	P	WL	49	09/17/20	SB	BM	P	
09/04/20	10383	P-3851/P-3853	257' S of NEOS	W	09/16/20	8:05 AM	3X9	P	WL	49	09/16/20	SB	BM	P	
09/04/20	10384	P-3858/P-3860	59' N of SEOS	DF-1345	09/16/20	9:35 AM	2X5	DF-1345	WL	49	09/17/20	SB	BM	P	
09/04/20	10385	P-3851/P-3853	104' S of NEOS	DF-1343	09/15/20	2:35 PM	2X5	DF-1343	AA	25	09/17/20	SB	BM	P	
09/04/20	10386	P-3855/P-3857	60' N of SEOS	DF-1344	09/15/20	2:01 PM	2X5	DF-1344	AA	25	09/17/20	SB	BM	P	
09/05/20	10387	P-3862/P-3863/P-3864	Intersection	INT	09/15/20	9:04 AM	2X2	P	WL	49	09/17/20	SB	BM	P	
09/05/20	10388	P-3861/P-3862/P-3864	Intersection	INT	09/15/20	3:08 PM	2X2	P	AA	25	09/17/20	SB	BM	P	
09/05/20	10389	P-3864/P-3865/P-3866	Intersection	INT	09/15/20	4:16 PM	3X3	P	AA	25	09/17/20	SB	BM	P	
09/05/20	10390	P-3865/P-3866/P-3867	Intersection	INT	09/15/20	4:25 PM	2X2	P	AA	25	09/17/20	SB	BM	P	
09/05/20	10391	P-3863/P-3864	13' N of SEOS	DF-1346	09/15/20	9:45 AM	2X5	DF-1346	WL	49	09/17/20	SB	BM	P	
09/05/20	10392	P-3864/P-3865	55' N of SEOS	DF-1347	09/15/20	3:15 PM	2X5	DF-1347	AA	25	09/17/20	SB	BM	P	
09/05/20	10393	P-3867/P-3868/P-3869	Intersection	INT	09/15/20	10:45 AM	2X3	P	AA	25	09/17/20	SB	BM	P	
09/05/20	10394	P-3868/P-3869	10' W of EEOS	DF-1348	09/15/20	10:04 AM	2X5	DF-1348	AA	25	09/17/20	SB	BM	P	
09/05/20	10395	P-3868/P-3869/P-3871	Intersection	INT	09/16/20	10:03 AM	2X2	P	AA	25	09/17/20	SB	BM	P	
09/05/20	10396	P-3868/P-3870/P-3871	Intersection	INT	09/16/20	9:55 AM	3X4	P	AA	25	09/17/20	SB	BM	P	
09/05/20	10397	P-3870/P-3871/P-3872	Intersection	INT	09/16/20	9:05 AM	3X4	P	AA	25	09/17/20	SB	BM	P	
09/05/20	10398	P-3873/P-3874/P-3875	Intersection	INT	09/16/20	8:25 AM	2X3	P	AA	25	09/17/20	SB	BM	P	
09/05/20	10399	P-3784/P-3875/P-3876	Intersection	INT	09/16/20	8:15 AM	2X2	P	AA	25	09/17/20	SB	BM	P	COVERS D-10530
09/05/20	10400	P-3873/P-3875	13' S of NEOS	DF-1349	09/16/20	9:05 AM	2X7	DF-1349	AA	25	09/17/20	SB	BM	P	
09/05/20	10401	P-3758/P-3769	10' S of NEOS	W	09/12/20	8:55 AM	4X5	P	JA	25	09/14/20	SB	BM	P	

Note: CAP information is located on Fusion Welding Summary

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Defect / Repair Summary

Location: AT - Anchor Trench; TI - Tie In; N EOS - North End of Seam; E EOS - East End of Seam; S EOS - South End of Seam; W EOS - West End of Seam
Defect Type: FM - Fishmouth; BO - Burnout; W - Wrinkle; BS - Boot Skirt; DF - Fusion Destruct; DX - Extrusion Destruct; PU - Puncture; PT - Pressure Test; INT - Panel Intersection
FS - Failed Seam; DO - Damage by Others; WR - Welder Restart; IO - Insufficient Overlap; MD - Manufacturer Defect; FVT - Failed Vacuum Test
Defect Repair: P - Patch; C - Cap; B - Bead

Defect Date	Defect Number	Seam/Panel Number	Location	Defect Type	Defect Repair						Repair Vacuum Test				Remarks
					Repair Date	Time	Size	Type	Operator	Machine Number	Test Date	Tech	QA Monitor	P/F	
09/11/20	10402	P-3079/P-3080/P-3740/P-3741	Intersection	INT	09/11/20	1:08 PM	2X2	P	JA	25	09/14/20	SB	BM	P	
09/11/20	10403	P-3077/P-3079/P-3741/P-3742	Intersection	INT	09/11/20	1:36 PM	3X3	P	JA	25	09/14/20	SB	BM	P	
09/11/20	10404	P-3076/P-3077/P-3742/P-3743	Intersection	INT	09/11/20	2:12 PM	2X6	P	JA	25	09/14/20	SB	BM	P	
09/11/20	10405	P-3075/P-3076/P-3743/P-3744	Intersection	INT	09/11/20	2:35 PM	2X3	P	JA	25	09/14/20	SB	BM	P	
09/11/20	10406	P-3075/P-3744	18' W of EEOS	DX-266	09/11/20	3:22 PM	2X5	DX-266	JA	25	09/14/20	SB	BM	P	
09/11/20	10407	P-3074/P-3075/P-3744/P-3745	Intersection	INT	09/11/20	2:51 PM	2X2	P	JA	25	09/14/20	SB	BM	P	
09/11/20	10408	P-3073/P-3074/P-3745/P-3746	Intersection	INT	09/11/20	3:08 PM	2X3	P	JA	25	09/14/20	SB	BM	P	
09/11/20	10409	P-3072/P-3073/P-3746	Intersection	INT	09/11/20	3:36 PM	2X2	P	JA	25	09/14/20	SB	BM	P	
09/11/20	10410	P-3072/P-3746/P-3747	Intersection	INT	09/11/20	3:42 PM	2X2	P	JA	25	09/14/20	SB	BM	P	
09/11/20	10411	P-3071/P-3072/P-3747	Intersection	INT	09/11/20	3:45 PM	2X2	P	JA	25	09/14/20	SB	BM	P	
09/11/20	10412	P-3071/P-3747/P-3748	Intersection	INT	09/11/20	3:56 PM	2X2	P	JA	25	09/14/20	SB	BM	P	
09/11/20	10413	P-3070/P-3071/P-3748	Intersection	INT	09/11/20	4:05 PM	2X2	P	JA	25	09/14/20	SB	BM	P	
09/11/20	10414	P-3070/P-3748/P-3749	Intersection	INT	09/11/20	4:13 PM	2X2	P	JA	25	09/14/20	SB	BM	P	
09/11/20	10415	P-3069/P-3070/P-3749	Intersection	INT	09/11/20	4:02 PM	2X2	P	JA	25	09/14/20	SB	BM	P	
09/11/20	10416	P-3069/P-3749/P-3750	Intersection	INT	09/11/20	4:03 PM	4X4	P	JA	25	09/14/20	SB	BM	P	
09/11/20	10417	P-3068/P-3069/P-3750	Intersection	INT	09/11/20	4:37 PM	2X2	P	JA	25	09/15/20	SB	BM	P	
09/11/20	10418	P-3068/P-3750/P-3769	Intersection	INT	09/11/20	4:05 PM	4X4	P	JA	25	09/15/20	SB	BM	P	
09/11/20	10419	P-3067/P-3068/P-3769	Intersection	INT	09/11/20	9:22 AM	2X2	P	WL	49	09/15/20	SB	BM	P	
09/11/20	10420	P-3067/P-3769/P-3770	Intersection	INT	09/11/20	9:27 AM	3X5	P	WL	49	09/15/20	SB	BM	P	
09/11/20	10421	P-3066/P-3067/P-3770	Intersection	INT	09/11/20	9:37 AM	2X4	P	WL	49	09/15/20	SB	BM	P	
09/11/20	10422	P-3066/P-3770/P-3782/P-3783	Intersection	INT	09/11/20	11:03 AM	4X6	P	WL	49	09/15/20	SB	BM	P	
09/11/20	10423	P-3065/P-3066/P-3783	Intersection	INT	09/11/20	11:45 AM	2X2	P	WL	49	09/15/20	SB	BM	P	
09/11/20	10424	P-3064/P-3065/P-3783/P-3790	Intersection	INT	09/11/20	12:00 PM	2X2	P	WL	49	09/15/20	SB	BM	P	
09/11/20	10425	P-3064/P-3790/P-3794	Intersection	INT	09/11/20	1:10 PM	2X5	P	WL	49	09/16/20	SB	BM	P	
09/11/20	10426	P-3063/P-3064/P-3794	Intersection	INT	09/11/20	1:30 PM	2X7	P	WL	49	09/16/20	SB	BM	P	
09/11/20	10427	P-3063/P-3794/P-3795	Intersection	INT	09/11/20	1:58 PM	3X6	P	WL	49	09/16/20	SB	BM	P	
09/11/20	10428	P-3061/P-3063/P-3795	Intersection	INT	09/11/20	2:00 PM	2X2	P	WL	49	09/16/20	SB	BM	P	
09/11/20	10429	P-3061/P-3795/P-3796	Intersection	INT	09/11/20	2:21 PM	3X7	P	WL	49	09/16/20	SB	BM	P	
09/11/20	10430	P-3061/P-3796	7' W OF EEOS	DX-267	09/11/20	2:50 PM	2X5	DX-267	WL	49	09/16/20	SB	BM	P	
09/11/20	10431	P-3060/P-3061/P-3796	Intersection	INT	09/11/20	3:00 PM	2X2	P	WL	49	09/16/20	SB	BM	P	
09/11/20	10432	P-3060/P-3796/P-3797	Intersection	INT	09/11/20	3:31 PM	3X8	P	WL	49	09/16/20	SB	BM	P	
09/11/20	10433	P-3058/P-3060/P-3797	Intersection	INT	09/11/20	3:40 PM	2X2	P	WL	49	09/16/20	SB	BM	P	
09/11/20	10434	P-3058/P-3797/P-3799	Intersection	INT	09/11/20	3:55 PM	3X3	P	WL	49	09/16/20	SB	BM	P	
09/11/20	10435	P-3057/P-3058/P-3799	Intersection	INT	09/11/20	4:05 PM	2X2	P	WL	49	09/16/20	SB	BM	P	
09/11/20	10436	P-3057/P-3799/P-3801	Intersection	INT	09/11/20	4:25 PM	3X5	P	WL	49	09/16/20	SB	BM	P	
09/11/20	10437	P-3056/P-3057/P-3801	Intersection	INT	09/11/20	4:35 PM	2X2	P	WL	49	09/16/20	SB	BM	P	
09/12/20	10438	P-3056/P-3801/P-3804	Intersection	INT	09/12/20	8:07 AM	2X6	P	WL	49	09/16/20	SB	BM	P	
09/12/20	10439	P-3055/P-3056/P-3804	Intersection	INT	09/12/20	8:10 AM	2X2	P	WL	49	09/16/20	SB	BM	P	
09/12/20	10440	P-3055/P-3804/P-3805	Intersection	INT	09/12/20	8:25 AM	2X4	P	WL	49	09/16/20	SB	BM	P	
09/12/20	10441	P-3054/P-3055/P-3805	Intersection	INT	09/12/20	8:40 AM	2X2	P	WL	49	09/16/20	SB	BM	P	
09/12/20	10442	P-3054/P-3805/P-3806	Intersection	INT	09/12/20	8:55 AM	2X4	P	WL	49	09/16/20	SB	BM	P	

Note: CAP information is located on Fusion Welding Summary

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Defect / Repair Summary

Location: AT - Anchor Trench; TI - Tie In; N EOS - North End of Seam; E EOS - East End of Seam; S EOS - South End of Seam; W EOS - West End of Seam
Defect Type: FM - Fishmouth; BO - Burnout; W - Wrinkle; BS - Boot Skirt; DF - Fusion Destruct; DX - Extrusion Destruct; PU - Puncture; PT - Pressure Test; INT - Panel Intersection
FS - Failed Seam; DO - Damage by Others; WR - Welder Restart; IO - Insufficient Overlap; MD - Manufacturer Defect; FVT - Failed Vacuum Test
Defect Repair: P - Patch; C - Cap; B - Bead

Defect Date	Defect Number	Seam/Panel Number	Location	Defect Type	Defect Repair						Repair Vacuum Test				Remarks
					Repair Date	Time	Size	Type	Operator	Machine Number	Test Date	Tech	QA Monitor	P/F	
09/12/20	10443	P-3053/P-3054/P-3806	Intersection	INT	09/12/20	9:00 AM	2X2	P	WL	49	09/16/20	SB	BM	P	
09/12/20	10444	P-3053/P-3806/P-3807	Intersection	INT	09/12/20	9:10 AM	2X2	P	WL	49	09/16/20	SB	BM	P	
09/12/20	10445	P-3052/P-3053/P-3807	Intersection	INT	09/12/20	9:15 AM	2X2	P	WL	49	09/16/20	SB	BM	P	
09/12/20	10446	P-3052/P-3807/P-3808	Intersection	INT	09/12/20	9:25 AM	3X3	P	WL	49	09/16/20	SB	BM	P	
09/12/20	10447	P-3051/P-3052/P-3808	Intersection	INT	09/12/20	9:35 AM	2X2	P	WL	49	09/16/20	SB	BM	P	
09/12/20	10448	P-3051/P-3808/P-3809	Intersection	INT	09/12/20	10:20 AM	2X13	P	WL	49	09/16/20	SB	BM	P	
09/12/20	10449	P-3050/P-3051/P-3809	Intersection	INT	09/12/20	10:40 AM	2X2	P	WL	49	09/16/20	SB	BM	P	
09/12/20	10450	P-3050/P-3809/P-3810	Intersection	INT	09/12/20	11:00 AM	3X5	P	WL	49	09/16/20	SB	BM	P	
09/12/20	10451	P-3049/P-3050/P-3810	Intersection	INT	09/12/20	11:05 AM	2X2	P	WL	49	09/16/20	SB	BM	P	
09/12/20	10452	P-3049/P-3810/P-3811	Intersection	INT	09/12/20	11:01 AM	2X2	P	WL	49	09/16/20	SB	BM	P	
09/12/20	10453	P-3039/P-3049/P-3811	Intersection	INT	09/12/20	11:15 AM	2X2	P	WL	49	09/16/20	SB	BM	P	
09/12/20	10454	P-3039/P-3811/P-3817	Intersection	INT	09/12/20	11:33 AM	2X3	P	WL	49	09/16/20	SB	BM	P	
09/12/20	10455	P-3038/P-3039/P-3812	Intersection	INT	09/12/20	11:04 AM	2X2	P	WL	49	09/16/20	SB	BM	P	
09/12/20	10456	P-3061/P-3797	4' W of EEOS	DX-267P	09/12/20	-	-	DX-267P	WL	49	-	-	-	-	COVERED BY D-10458
09/12/20	10457	P-3060/P-3797	6' W of EEOS	DX-267N	09/12/20	-	-	DX-267N	WL	49	-	-	-	-	COVERED BY D-10458
09/12/20	10458	P-3060/P-3061/P-3795/P-3796/P-3797	WEOS-EEOS	C	09/12/20	12:00 AM	2X46	C	WL	49	09/16/20	SB	BM	P	
09/12/20	10459	P-3039/P-3811	15' W of EEOS	DX-268	09/14/20	3:01 PM	2X5	DX-268	WL	49	09/16/20	SB	BM	P	
09/14/20	10460	P-3853/P-3856	105' S of NEOS	PT	09/16/20	8:16 AM	2X2	P	WL	49	09/16/20	SB	BM	P	
09/14/20	10461	P-3800/P-3801	11' W of EEOS	PT	09/14/20	-	-	P	WL	49	-	-	-	-	COVERED BY D-10293
09/14/20	10462	P-3825/P-3826	20' W of EEOS	DF-1350	09/14/20	3:00 PM	2X7	DF-1350	WL	49	09/16/20	SB	BM	P	COVERS D-10328
09/14/20	10463	P-3820/P-3822	10' N of SEOS	PT	09/16/20	3:01 PM	2X2	P	WL	49	09/16/20	SB	BM	P	
09/14/20	10464	P-3833/P-3834	30' N of SEOS	PT	09/12/20	7:05 AM	2X2	P	WL	49	09/16/20	SB	BM	P	
09/14/20	10465	P-3767/P-3768	9' N of SEOS	PT	09/14/20	3:06 PM	2X2	P	JA	25	09/16/20	SB	BM	P	
09/14/20	10466	P-3815/P-3818	18' S of NEOS	BO	09/14/20	4:02 PM	3X3	P	AA	25	09/15/20	SB	BM	P	
09/14/20	10467	P-3818	15' N of SEOS/7' W	DO	09/14/20	4:05 PM	2X2	P	WL	49	09/16/20	SB	BM	P	
09/14/20	10468	P-3818	21' N of SEOS/4' W	DO	09/16/20	4:00 PM	2X2	P	WL	49	09/16/20	SB	BM	P	
09/14/20	10469	P-3037/P-3038/P-3814	Intersection	INT	09/16/20	10:02 AM	2X2	P	WL	49	09/16/20	SB	BM	P	
09/14/20	10470	P-3036/P-3037/P-3814/P-3816	Intersection	INT	09/16/20	10:01 AM	3X4	P	WL	49	09/16/20	SB	BM	P	
09/14/20	10471	P-3038/P-3812/P-3814	Intersection	INT	09/16/20	10:00 AM	2X2	P	WL	49	09/16/20	SB	BM	P	
09/14/20	10472	P-3035/P-3036/P-3816/P-3818	Intersection	INT	09/16/20	10:45 AM	3X3	P	WL	49	09/16/20	SB	BM	P	
09/14/20	10473	P-3034/P-3035/P-3818/P-3820	Intersection	INT	09/16/20	11:01 AM	3X5	P	WL	49	09/16/20	SB	BM	P	
09/14/20	10474	P-3033/P-3034/P-3820/P-3822	Intersection	INT	09/16/20	11:55 AM	3X4	P	WL	49	09/16/20	SB	BM	P	
09/16/20	10475	P-3024/P-3033/P-3822/P-3826	Intersection	INT	09/16/20	1:05 PM	3X3	P	WL	49	09/16/20	SB	BM	P	
09/16/20	10476	P-3024/P-3826	8' W of EEOS	W	09/16/20	1:08 PM	3X3	P	WL	49	09/16/20	SB	BM	P	
09/16/20	10477	P-3024/P-3826	17' W of EEOS	DX-271	09/16/20	1:35 PM	2X5	DX-271	WL	49	09/17/20	SB	BM	P	
09/16/20	10478	P-3023/P-3024/P-3826	Intersection	INT	09/16/20	1:15 PM	2X2	P	WL	49	09/17/20	SB	BM	P	
09/16/20	10479	P-3023/P-3826/P-3827	Intersection	INT	09/16/20	1:22 PM	3X5	P	WL	49	09/17/20	SB	BM	P	
09/16/20	10480	P-3022/P-3023/P-3827/P-3830	Intersection	INT	09/16/20	2:01 PM	3X13	C	WL	49	09/17/20	SB	BM	P	
09/16/20	10481	P-3020/P-3022/P-3830	Intersection	INT	09/16/20	2:25 PM	2X2	P	WL	49	09/17/20	SB	BM	P	
09/16/20	10482	P-3020/P-3830/P-3831	Intersection	INT	09/16/20	2:03 PM	3X4	P	WL	49	09/17/20	SB	BM	P	
09/16/20	10483	P-3016/P-3020/P-3831	Intersection	INT	09/16/20	2:45 PM	2X2	P	WL	49	09/17/20	SB	BM	P	

Note: CAP information is located on Fusion Welding Summary

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Defect / Repair Summary

Location: AT - Anchor Trench; TI - Tie In; N EOS - North End of Seam; E EOS - East End of Seam; S EOS - South End of Seam; W EOS - West End of Seam
Defect Type: FM - Fishmouth; BO - Burnout; W - Wrinkle; BS - Boot Skirt; DF - Fusion Destruct; DX - Extrusion Destruct; PU - Puncture; PT - Pressure Test; INT - Panel Intersection
FS - Failed Seam; DO - Damage by Others; WR - Welder Restart; IO - Insufficient Overlap; MD - Manufacturer Defect; FVT - Failed Vacuum Test
Defect Repair: P - Patch; C - Cap; B - Bead

Defect Date	Defect Number	Seam/Panel Number	Location	Defect Type	Defect Repair						Repair Vacuum Test				Remarks
					Repair Date	Time	Size	Type	Operator	Machine Number	Test Date	Tech	QA Monitor	P/F	
09/16/20	10484	P-3016/P-3831/P-3833	Intersection	INT	09/16/20	3:00 PM	2X4	P	WL	49	09/17/20	SB	BM	P	
09/16/20	10485	P-3015/P-3016/P-3833	Intersection	INT	09/16/20	2:45 PM	2X2	P	JLO	44	09/17/20	SB	BM	P	
09/16/20	10486	P-3015/P-3833/P-3834	Intersection	INT	09/16/20	2:04 PM	2X2	P	JLO	44	09/17/20	SB	BM	P	
09/16/20	10487	P-3014/P-3015/P-3834	Intersection	INT	09/16/20	2:03 PM	2X2	P	JLO	44	09/17/20	SB	BM	P	
09/16/20	10488	P-3014/P-3834/P-3835	Intersection	INT	09/16/20	2:26 PM	2X2	P	JLO	44	09/17/20	SB	BM	P	
09/16/20	10489	P-3013/P-3014/P-3835	Intersection	INT	09/16/20	2:06 PM	2X2	P	JLO	44	09/17/20	SB	BM	P	
09/16/20	10490	P-3013/P-3835/P-3838	Intersection	INT	09/16/20	1:58 PM	2X2	P	JLO	44	09/17/20	SB	BM	P	
09/16/20	10491	P-3012/P-3013/P-3838	Intersection	INT	09/16/20	1:05 PM	2X2	P	JLO	44	09/17/20	SB	BM	P	
09/16/20	10492	P-3012/P-3838/P-3839	Intersection	INT	09/16/20	1:41 PM	2X2	P	JLO	44	09/17/20	SB	BM	P	
09/16/20	10493	P-3011/P-3012/P-3839	Intersection	INT	09/16/20	1:35 PM	2X2	P	JLO	44	09/17/20	SB	BM	P	
09/16/20	10494	P-3011/P-3839/P-3843	Intersection	INT	09/16/20	1:27 PM	2X2	P	JLO	44	09/17/20	SB	BM	P	
09/16/20	10495	P-3010/P-3011/P-3843	Intersection	INT	09/16/20	11:04 AM	2X2	P	JLO	44	09/17/20	SB	BM	P	
09/16/20	10496	P-3010/P-3843	7' E of WEOS	DX-270	09/16/20	1:11 PM	2X5	DX-270	JLO	44	09/17/20	SB	BM	P	
09/16/20	10497	P-3010/P-3843/P-3845	Intersection	INT	09/16/20	11:35 AM	2X2	P	JLO	44	09/17/20	SB	BM	P	
09/16/20	10498	P-3009/P-3010/P-3845	Intersection	INT	09/16/20	11:25 AM	2X2	P	JLO	44	09/17/20	SB	BM	P	
09/16/20	10499	P-3009/P-3845/P-3847	Intersection	INT	09/16/20	11:15 AM	2X3	P	JLO	44	09/17/20	SB	BM	P	
09/16/20	10500	P-3008/P-3009/P-3847	Intersection	INT	09/16/20	11:09 AM	3X3	P	JLO	44	09/17/20	SB	BM	P	
09/16/20	10501	P-3008/P-3847/P-3849	Intersection	INT	09/16/20	11:04 AM	3X3	P	JLO	44	09/17/20	SB	BM	P	
09/16/20	10502	P-3007/P-3008/P-3849	Intersection	INT	09/16/20	11:00 AM	2X2	P	JLO	44	09/17/20	SB	BM	P	
09/16/20	10503	P-3007/P-3849/P-3851	Intersection	INT	09/16/20	10:45 AM	3X4	P	JLO	44	09/17/20	SB	BM	P	
09/16/20	10504	P-3006/P-3007/P-3851	Intersection	INT	09/16/20	10:03 AM	3X3	P	JLO	44	09/17/20	SB	BM	P	
09/16/20	10505	P-3006/P-3851/P-3853	Intersection	INT	09/16/20	3:05 PM	3X3	P	AA	25	09/17/20	SB	BM	P	
09/16/20	10506	P-3005/P-3006/P-3853	Intersection	INT	09/16/20	2:05 PM	3X4	P	AA	25	09/17/20	SB	BM	P	
09/16/20	10507	P-3005/P-3853/P-3856	Intersection	INT	09/16/20	2:04 PM	4X4	P	AA	25	09/17/20	SB	BM	P	
09/16/20	10508	P-3004/P-3005/P-3856	Intersection	INT	09/16/20	2:03 PM	4X4	P	AA	25	09/17/20	SB	BM	P	
09/16/20	10509	P-3004/P-3856/P-3858	Intersection	INT	09/16/20	2:15 PM	3X5	P	AA	25	09/17/20	SB	BM	P	
09/16/20	10510	P-3002/P-3004/P-3858	Intersection	INT	09/16/20	12:00 AM	2X2	P	AA	25	09/17/20	SB	BM	P	
09/16/20	10511	P-3002/P-3858/P-3860	Intersection	INT	09/16/20	1:45 PM	4X7	P	AA	25	09/17/20	SB	BM	P	
09/16/20	10512	P-3000/P-3002/P-3860	Intersection	INT	09/16/20	1:35 PM	4X5	P	AA	25	09/17/20	SB	BM	P	
09/16/20	10513	P-3000/P-3860/P-3863	Intersection	INT	09/16/20	1:25 PM	3X5	P	AA	25	09/17/20	SB	BM	P	
09/16/20	10514	P-2999/P-3000/P-3863	Intersection	INT	09/16/20	1:02 PM	2X2	P	AA	25	09/17/20	SB	BM	P	
09/16/20	10515	P-2999/P-3863/P-3864	Intersection	INT	09/16/20	11:35 AM	2X2	P	AA	25	09/17/20	SB	BM	P	
09/16/20	10516	P-2999/P-3864	3' E of WEOS	DX-269	09/16/20	11:05 AM	2X5	DX-269	AA	25	09/17/20	SB	BM	P	
09/16/20	10517	P-2997/P-2999/P-3864	Intersection	INT	09/16/20	11:28 AM	2X2	P	AA	25	09/17/20	SB	BM	P	
09/16/20	10518	P-2997/P-3864/P-3866	Intersection	INT	09/16/20	11:18 AM	2X2	P	AA	25	09/17/20	SB	BM	P	
09/16/20	10519	P-2993/P-2997/P-3866	Intersection	INT	09/16/20	11:01 AM	2X2	P	AA	25	09/17/20	SB	BM	P	
09/16/20	10520	P-2993/P-3866/P-3867	Intersection	INT	09/16/20	11:03 AM	2X2	P	AA	25	09/17/20	SB	BM	P	
09/16/20	10521	P-2990/P-2993/P-3867	Intersection	INT	09/16/20	10:45 AM	2X2	P	AA	25	09/17/20	SB	BM	P	
09/16/20	10522	P-2990/P-3867/P-3869	Intersection	INT	09/16/20	10:33 AM	2X2	P	AA	25	09/17/20	SB	BM	P	
09/16/20	10523	P-2987/P-2990/P-3869	Intersection	INT	09/16/20	10:25 AM	2X2	P	AA	25	09/17/20	SB	BM	P	
09/16/20	10524	P-2987/P-3869/P-3871	Intersection	INT	09/16/20	10:02 AM	2X2	P	AA	25	09/17/20	SB	BM	P	

Note: CAP information is located on Fusion Welding Summary

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Defect / Repair Summary

Location: AT - Anchor Trench; TI - Tie In; N EOS - North End of Seam; E EOS - East End of Seam; S EOS - South End of Seam; W EOS - West End of Seam
Defect Type: FM - Fishmouth; BO - Burnout; W - Wrinkle; BS - Boot Skirt; DF - Fusion Destruct; DX - Extrusion Destruct; PU - Puncture; PT - Pressure Test; INT - Panel Intersection
FS - Failed Seam; DO - Damage by Others; WR - Welder Restart; IO - Insufficient Overlap; MD - Manufacturer Defect; FVT - Failed Vacuum Test
Defect Repair: P - Patch; C - Cap; B - Bead

Defect Date	Defect Number	Seam/Panel Number	Location	Defect Type	Defect Repair						Repair Vacuum Test				Remarks
					Repair Date	Time	Size	Type	Operator	Machine Number	Test Date	Tech	QA Monitor	P/F	
09/16/20	10525	P-2985/P-2987/P-3871	Intersection	INT	09/16/20	10:01 AM	2X2	P	AA	25	09/17/20	SB	BM	P	
09/16/20	10526	P-2985/P-3871/P-3872	Intersection	INT	09/16/20	9:43 AM	2X3	P	AA	25	09/17/20	SB	BM	P	
09/16/20	10527	P-2985/P-2986/P-3872	Intersection	INT	09/16/20	9:35 AM	2X2	P	AA	25	09/17/20	SB	BM	P	
09/16/20	10528	P-2986/P-3872/P-3873	Intersection	INT	09/16/20	9:03 AM	2X2	P	AA	25	09/17/20	SB	BM	P	
09/16/20	10529	P-2986/P-2988/P-3873	Intersection	INT	09/16/20	9:15 AM	2X2	P	AA	25	09/17/20	SB	BM	P	
09/16/20	10530	P-2988/P-3873/P-3875	Intersection	INT	09/16/20	-	-	P	AA	25	-	-	-	-	COVERED BY D-10400
09/16/20	10531	P-2988/P-2989/P-3875	Intersection	INT	09/16/20	8:05 AM	2X2	P	AA	25	09/17/20	SB	BM	P	
09/16/20	10532	P-2989/P-3875/P-3876	Intersection	INT	09/16/20	8:45 AM	2X2	P	AA	25	09/17/20	SB	BM	P	
09/16/20	10533	P-2989/P-2992/P-3876	Intersection	INT	09/16/20	8:36 AM	2X2	P	AA	25	09/17/20	SB	BM	P	
09/16/20	10534	P-3864/P-3865	@ ANCHOR TRENCH	AT	09/16/20	3:35 PM	2X4	P	AA	25	09/17/20	SB	BM	P	
09/17/20	10535	P-3604/P-3605/P-3877	Intersection	INT	09/19/20	2:50 PM	2X2	P	AA	25	09/26/20	SB	BM	P	
09/17/20	10536	P-3605	18' N of SEOS/2' E	DO	09/19/20	2:57 PM	2X4	P	AA	25	09/26/20	SB	BM	P	
09/17/20	10537	P-3605	26' N of SEOS/4' E	DO	09/19/20	3:05 PM	3X6	P	AA	25	09/26/20	SB	BM	P	
09/17/20	10538	P-3605/P-3877/P-3878	Intersection	INT	09/19/20	3:15 PM	4X4	P	AA	25	09/26/20	SB	BM	P	
09/17/20	10539	P-3878/P-3879	61' S of NEOS	DF-1351	09/19/20	3:25 PM	2X5	DF-1351	AA	25	09/26/20	SB	BM	P	
09/17/20	10540	P-3605/P-3606/P-3878	Intersection	INT	09/19/20	3:32 PM	2X2	P	AA	25	09/26/20	SB	BM	P	
09/17/20	10541	P-3606/P-3878/P-3879	Intersection	INT	09/19/20	3:45 PM	4X6	P	AA	25	09/26/20	SB	BM	P	
09/17/20	10542	P-3606/P-3879/P-3880	Intersection	INT	09/19/20	4:22 PM	3X7	P	AA	25	09/26/20	SB	BM	P	
09/17/20	10543	P-3879/P-3880/P-3881	Intersection	INT	09/19/20	3:55 PM	3X5	P	AA	25	09/26/20	SB	BM	P	
09/17/20	10544	P-3880/P-3881/P-3882	Intersection	INT	09/19/20	4:00 PM	2X3	P	AA	25	09/26/20	SB	BM	P	
09/17/20	10545	P-3606/P-3880/P-3882	Intersection	INT	09/21/20	3:34 PM	3X5	P	AA	25	09/26/20	SB	BM	P	
09/17/20	10546	P-3606/P-3882/P-3883	Intersection	INT	09/21/20	3:45 PM	4X5	P	AA	25	09/26/20	SB	BM	P	
09/17/20	10547	P-3885/P-3886/P-3887	Intersection	INT	09/22/20	1:56 PM	2X3	P	AA	25	09/26/20	SB	BM	P	
09/17/20	10548	P-3884/P-3885/P-3886	Intersection	INT	09/22/20	1:50 PM	2X3	P	AA	25	09/26/20	SB	BM	P	
09/17/20	10549	P-3883/P-3884/P-3886	Intersection	INT	09/22/20	1:45 PM	2X3	P	AA	25	09/26/20	SB	BM	P	
09/17/20	10550	P-3882/P-3884/P-3885	Intersection	INT	09/19/20	4:35 PM	2X3	P	AA	25	09/26/20	SB	BM	P	
09/17/20	10551	P-3882/P-3883/P-3884	Intersection	INT	09/19/20	4:30 PM	2X2	P	AA	25	09/26/20	SB	BM	P	
09/17/20	10552	P-3882/P-3883	43' S of NEOS	DF-1352	09/21/20	3:25 PM	2X5	DF-1352	AA	25	09/26/20	SB	BM	P	
09/17/20	10553	P-3606/P-3883/P-3886	Intersection	INT	09/21/20	4:00 PM	3X9	P	AA	25	09/26/20	SB	BM	P	
09/17/20	10554	P-3883/P-3886	102' S of NEOS	DF-1353	09/21/20	3:10 PM	3X11	DF-1353	AA	25	09/26/20	SB	BM	P	
09/18/20	10555	P-3886/P-3887/P-3888	Intersection	INT	09/22/20	2:03 PM	2X3	P	AA	25	09/26/20	SB	BM	P	
09/18/20	10556	P-3887/P-3888/P-3889	Intersection	INT	09/22/20	2:13 PM	3X4	P	AA	25	09/26/20	SB	BM	P	
09/18/20	10557	P-3888/P-3889/P-3891	Intersection	INT	09/22/20	2:23 PM	3X5	P	AA	25	09/26/20	SB	BM	P	
09/18/20	10558	P-3888/P-3890/P-3891	Intersection	INT	09/22/20	1:30 PM	3X13	C	AA	25	09/26/20	SB	BM	P	
09/18/20	10559	P-3886/P-3888	188' N of SEOS	DF-1354	09/21/20	3:16 PM	2X5	DF-1354	AA	25	09/26/20	SB	BM	P	
09/18/20	10560	P-3606/P-3886/P-3888	Intersection	INT	09/22/20	1:50 PM	3X6	P	WL	49	09/26/20	SB	BM	P	
09/18/20	10561	P-3606/P-3888/P-3890	Intersection	INT	09/22/20	3:33 PM	3X4	P	WL	49	09/26/20	SB	BM	P	
09/18/20	10562	P-3606/P-3712/P-3890	Intersection	INT	09/22/20	1:25 PM	3X11	C	WL	49	09/26/20	SB	BM	P	
09/18/20	10563	P-3712/P-3890/P-3892	Intersection	INT	09/22/20	2:10 PM	3X8	P	WL	49	09/26/20	SB	BM	P	
09/18/20	10564	P-3712/P-3892/P-3895	Intersection	INT	09/22/20	2:15 PM	3X4	P	WL	49	09/26/20	SB	BM	P	
09/18/20	10565	P-3890/P-3892	76' S of NEOS	DF-1356	09/22/20	3:30 PM	2X5	DF-1356	WL	49	09/26/20	SB	BM	P	

Note: CAP information is located on Fusion Welding Summary

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Defect / Repair Summary

Location: AT - Anchor Trench; TI - Tie In; N EOS - North End of Seam; E EOS - East End of Seam; S EOS - South End of Seam; W EOS - West End of Seam
Defect Type: FM - Fishmouth; BO - Burnout; W - Wrinkle; BS - Boot Skirt; DF - Fusion Destruct; DX - Extrusion Destruct; PU - Puncture; PT - Pressure Test; INT - Panel Intersection
FS - Failed Seam; DO - Damage by Others; WR - Welder Restart; IO - Insufficient Overlap; MD - Manufacturer Defect; FVT - Failed Vacuum Test
Defect Repair: P - Patch; C - Cap; B - Bead

Defect Date	Defect Number	Seam/Panel Number	Location	Defect Type	Defect Repair						Repair Vacuum Test				Remarks
					Repair Date	Time	Size	Type	Operator	Machine Number	Test Date	Tech	QA Monitor	P/F	
09/18/20	10566	P-3890/P-3892/P-3893	Intersection	INT	09/22/20	3:58 PM	2X3	P	WL	49	09/26/20	SB	BM	P	
09/18/20	10567	P-3892/P-3893/P-3895	Intersection	INT	09/22/20	4:02 PM	3X5	P	WL	49	09/26/20	SB	BM	P	
09/18/20	10568	P-3893/P-3895/P-3896	Intersection	INT	09/22/20	4:10 PM	2X4	P	WL	49	09/26/20	SB	BM	P	
09/18/20	10569	P-3890/P-3893/P-3894	Intersection	INT	09/21/20	4:33 PM	2X4	P	AA	25	09/26/20	SB	BM	P	
09/18/20	10570	P-3893/P-3894/P-3896	Intersection	INT	09/21/20	4:40 PM	2X2	P	AA	25	09/26/20	SB	BM	P	
09/18/20	10571	P-3894/P-3896/P-3897	Intersection	INT	09/22/20	-	-	P	AA	25	-	-	-	-	COVERED BY D-10575
09/18/20	10572	P-3888/P-3890	316' S of NEOS	DF-1355	09/22/20	1:00 PM	2X5	DF-1355	AA	25	09/28/20	SB	BM	P	
09/18/20	10573	P-3890/P-3891/P-3894	Intersection	INT	09/22/20	1:15 PM	3X10	C	AA	25	09/28/20	SB	BM	P	
09/18/20	10574	P-3891/P-3894	68' S of NEOS	BO	09/22/20	2:30 PM	3X5	P	AA	25	09/28/20	SB	BM	P	
09/18/20	10575	P-3896/P-3897	2' W of EEOS	DF-1357	09/22/20	2:55 PM	4X7	DF-1357	AA	25	09/28/20	SB	BM	P	COVERS D-10571
09/19/20	10576	P-3895/P-3898/P-3899	Intersection	INT	09/22/20	3:20 PM	3X3	P	WL	49	09/28/20	SB	BM	P	
09/19/20	10577	P-3899/P-3900	20' S of NEOS	DF-1358	09/22/20	3:14 PM	2X5	DF-1358	WL	49	09/28/20	SB	BM	P	
09/19/20	10578	P-3899/P-3900/P-3901	Intersection	INT	09/22/20	3:00 PM	2X5	P	WL	49	09/28/20	SB	BM	P	
09/19/20	10579	P-3900/P-3901/P-3902	Intersection	INT	09/22/20	3:10 PM	2X2	P	WL	49	09/28/20	SB	BM	P	
09/19/20	10580	P-3895/P-3899/P-3901	Intersection	INT	09/22/20	3:20 PM	2X3	P	WL	49	09/28/20	SB	BM	P	
09/19/20	10581	P-3895/P-3896/P-3901	Intersection	INT	09/22/20	4:25 PM	3X3	P	WL	49	09/28/20	SB	BM	P	
09/19/20	10582	P-3896	10' E of WEOS/2' S	DO	09/22/20	4:14 PM	2X2	P	WL	49	09/28/20	SB	BM	P	
09/19/20	10583	P-3896/P-3901/P-3902/P-3903	Intersection	INT	09/24/20	3:40 PM	3X11	P	WL	49	09/28/20	SB	BM	P	
09/19/20	10584	P-3890/P-3893	80' S of NEOS	BO	09/21/20	4:15 PM	3X4	P	AA	25	09/28/20	SB	BM	P	
09/19/20	10585	P-3902/P-3904/P-3905	Intersection	INT	09/24/20	3:55 PM	3X4	P	WL	49	09/28/20	SB	BM	P	
09/19/20	10586	P-3905	10' E of WEOS/4' S	DO	09/24/20	3:58 PM	2X2	P	WL	49	09/28/20	SB	BM	P	
09/19/20	10587	P-3904/P-3905/P-3906	Intersection	INT	09/24/20	4:02 PM	2X2	P	WL	49	09/28/20	SB	BM	P	
09/19/20	10588	P-3902/P-3903/P-3905	Intersection	INT	09/24/20	3:46 PM	2X2	P	WL	49	09/28/20	SB	BM	P	
09/19/20	10589	P-3896/P-3903	48' S of NEOS	DF-1359	09/22/20	3:20 PM	2X5	DF-1359	AA	25	09/28/20	SB	BM	P	
09/19/20	10590	P-3906/P-3907/P-3909	Intersection	INT	09/22/20	-	-	P	AA	25	-	-	-	-	COVERED BY D-10602
09/19/20	10591	P-3906/P-3907	10' W of EEOS	DF-1360	09/22/20	3:40 PM	2X5	DF-1360	AA	25	09/28/20	SB	BM	P	
09/19/20	10592	P-3905/P-3906/P-3907	Intersection	INT	09/22/20	3:32 PM	2X2	P	AA	25	09/28/20	SB	BM	P	
09/19/20	10593	P-3896/P-3903/P-3905	Intersection	INT	09/22/20	3:10 PM	23X4	P	AA	25	09/28/20	SB	BM	P	
09/19/20	10594	P-3896/P-3897/P-3905	Intersection	INT	09/22/20	3:04 PM	2X2	P	AA	25	09/28/20	SB	BM	P	
09/19/20	10595	P-3897/P-3905/P-3907/P-3908	Intersection	INT	09/24/20	2:58 PM	3X8	P	AA	25	09/28/20	SB	BM	P	
09/19/20	10596	P-3907/P-3908/P-3909	Intersection	INT	09/24/20	3:03 PM	2X2	P	AA	25	09/28/20	SB	BM	P	
09/19/20	10597	P-3908/P-3909/P-3910	Intersection	INT	09/24/20	3:08 PM	2X3	P	AA	25	09/28/20	SB	BM	P	
09/19/20	10598	P-3909/P-3910/P-3911	Intersection	INT	09/24/20	-	-	P	AA	25	-	-	-	-	COVERED BY D-10605
09/19/20	10599	P-3910/P-3911/P-3912	Intersection	INT	09/24/20	-	-	P	AA	25	-	-	-	-	COVERED BY D-10605
09/19/20	10600	P-3897/P-3908/P-3910	Intersection	INT	09/25/20	11:50 AM	3X5	P	AA	25	09/28/20	SB	BM	P	
09/19/20	10601	P-3911/P-3912/P-3913	Intersection	INT	09/24/20	3:32 PM	2X2	P	AA	25	09/28/20	SB	BM	P	
09/19/20	10602	P-3906/P-3909	4' N of SEOS	DF-1361	09/22/20	4:05 PM	3X8	DF-1361	AA	25	09/28/20	SB	BM	P	COVERS D-10590
09/19/20	10603	P-3909/P-3911	177' S of NEOS	DF-1362	09/22/20	4:25 PM	2X5	DF-1362	AA	25	09/28/20	SB	BM	P	
09/19/20	10604	P-3906/P-3909	86' N of SEOS	BO	09/24/20	4:04 PM	2X2	P	WL	49	09/28/20	SB	BM	P	
09/19/20	10605	P-3910/P-3911	S - N	FS	09/24/20	3:25 PM	3X10	C	WL	49	09/28/20	SB	BM	P	COVERS D-10598/D-10599
09/19/20	10606	P-3912/P-3913/P-3914	Intersection	INT	09/24/20	-	-	P	WL	49	-	-	-	-	COVERED BY D-10608

Note: CAP information is located on Fusion Welding Summary

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Defect / Repair Summary

Location: AT - Anchor Trench; TI - Tie In; N EOS - North End of Seam; E EOS - East End of Seam; S EOS - South End of Seam; W EOS - West End of Seam
Defect Type: FM - Fishmouth; BO - Burnout; W - Wrinkle; BS - Boot Skirt; DF - Fusion Destruct; DX - Extrusion Destruct; PU - Puncture; PT - Pressure Test; INT - Panel Intersection
FS - Failed Seam; DO - Damage by Others; WR - Welder Restart; IO - Insufficient Overlap; MD - Manufacturer Defect; FVT - Failed Vacuum Test
Defect Repair: P - Patch; C - Cap; B - Bead

Defect Date	Defect Number	Seam/Panel Number	Location	Defect Type	Defect Repair						Repair Vacuum Test				Remarks
					Repair Date	Time	Size	Type	Operator	Machine Number	Test Date	Tech	QA Monitor	P/F	
09/19/20	10607	P-3441/P-3604/P-3877	Intersection	INT	09/19/20	2:45 PM	5X6	P	AA	25	09/28/20	SB	BM	P	
09/19/20	10608	P-3912/P-3913	15' S of NEOS	DF-1363	09/24/20	3:42 PM	3X8	DF-1363	AA	25	09/28/20	SB	BM	P	COVERS D-10606
09/21/20	10609	P-3913/P-3915	83' N of SEOS	DF-1364	09/24/20	4:15 PM	2X5	DF-1364	AA	25	09/28/20	SB	BM	P	
09/21/20	10610	P-3915/P-3917/P-3918	Intersection	INT	09/24/20	4:24 PM	2X5	P	AA	25	09/28/20	SB	BM	P	
09/21/20	10611	P-3917/P-3918/P-3919	Intersection	INT	09/24/20	4:30 PM	3X4	P	AA	25	09/28/20	SB	BM	P	
09/21/20	10612	P-3918/P-3919/P-3920	Intersection	INT	09/25/20	11:23 AM	2X4	P	JLO	44	09/28/20	SB	BM	P	
09/21/20	10613	P-3914/P-3915/P-3916	Intersection	INT	09/24/20	4:00 PM	2X3	P	AA	25	09/28/20	SB	BM	P	
09/21/20	10614	P-3915/P-3916/P-3918	Intersection	INT	09/24/20	4:05 PM	2X2	P	AA	25	09/28/20	SB	BM	P	
09/21/20	10615	P-3919/P-3920/P-3921	Intersection	INT	09/25/20	11:13 AM	2X4	P	JLO	44	09/28/20	SB	BM	P	
09/21/20	10616	P-3920/P-3921/P-3922	Intersection	INT	09/25/20	11:33 AM	3X5	P	JLO	44	09/28/20	SB	BM	P	
09/21/20	10617	P-3921/P-3922/P-3923	Intersection	INT	09/25/20	11:39 AM	2X3	P	JLO	44	09/28/20	SB	BM	P	
09/21/20	10618	P-3918/P-3920	50' S of NEOS	DF-1365	09/25/20	4:15 PM	2X5	DF-1365	AA	25	09/28/20	SB	BM	P	
09/21/20	10619	P-3919/P-3921	67' S of NEOS	DF-1366	09/24/20	4:14 PM	2X5	DF-1366	WL	49	09/28/20	SB	BM	P	
09/21/20	10620	P-3922/P-3923/P-3924	Intersection	INT	09/25/20	4:25 PM	3X5	P	AA	25	09/28/20	SB	BM	P	
09/21/20	10621	P-3923/P-3924/P-3925	Intersection	INT	09/25/20	4:32 PM	2X2	P	AA	25	09/28/20	SB	BM	P	
09/21/20	10622	P-3924/P-3925/P-3926	Intersection	INT	09/25/20	3:12 PM	2X2	P	WL	49	09/28/20	SB	BM	P	
09/21/20	10623	P-3925/P-3926/P-3927	Intersection	INT	09/25/20	3:08 PM	2X2	P	WL	49	09/28/20	SB	BM	P	
09/21/20	10624	P-3924	9' E of WEOS/4' S	DO	09/25/20	4:27 PM	2X2	P	WL	49	09/28/20	SB	BM	P	
09/21/20	10625	P-3921/P-3923	220' N of SEOS	DF-1367	09/25/20	4:17 PM	2X5	DF-1367	JLO	44	09/28/20	SB	BM	P	
09/21/20	10626	P-3923/P-3925	62' N of SEOS	DF-1368	09/26/20	8:18 AM	2X5	DF-1368	JLO	44	09/28/20	SB	BM	P	
09/21/20	10627	P-3927/P-3928	260' S of NEOS	DF-1369	09/25/20	4:10 PM	2X5	DF-1369	WL	49	09/28/20	SB	BM	P	
09/21/20	10628	P-3928/P-3929	108' N of SEOS	DF-1370	09/25/20	4:20 PM	2X5	DF-1370	WL	49	09/28/20	SB	BM	P	
09/21/20	10629	P-3890/P-3893	70' S of NEOS	PT	09/21/20	4:08 PM	2X2	P	AA	25	09/28/20	SB	BM	P	
09/21/20	10630	P-3901/P-3902	15' N of SEOS	PT	09/24/20	3:25 PM	3X9	P	WL	49	09/28/20	SB	BM	P	
09/22/20	10631	P-3929/P-3930	230' N of SEOS	DF-1371	09/25/20	10:48 AM	2X5	DF-1371	JLO	44	09/28/20	SB	BM	P	
09/22/20	10632	P-3932/P-3933	37' S of NEOS	DF-1372	09/26/20	9:20 AM	2X5	DF-1372	JLO	44	09/28/20	SB	BM	P	
09/22/20	10633	P-3933/P-3934	24' N of SEOS	DF-1373	09/26/20	10:03 AM	2X5	DF-1373	WL	49	09/28/20	SB	BM	P	
09/22/20	10634	P-3934/P-3935	180' N of SEOS	DF-1374	09/26/20	8:43 AM	2X5	DF-1374	JLO	44	09/28/20	SB	BM	P	
09/22/20	10635	P-3935/P-3936	160' S of NEOS	DF-1375	09/26/20	8:51 AM	2X5	DF-1375	JLO	44	09/28/20	SB	BM	P	
09/22/20	10636	P-3936/P-3937	315' S of NEOS	DF-1376	09/25/20	10:08 AM	2X5	DF-1376	WL	49	09/28/20	SB	BM	P	
09/22/20	10637	P-3606/P-3888	25' N of SEOS	PT	09/22/20	3:40 PM	2X2	P	WL	49	09/28/20	SB	BM	P	
09/23/20	10638	P-3937/P-3938	305' N of SEOS	DF-1377	09/25/20	1:20 PM	2X5	DF-1377	JLO	44	09/28/20	SB	BM	P	
09/23/20	10639	P-3940/P-3941	153' S of NEOS	DF-1378	09/26/20	10:40 AM	2X5	DF-1378	JLO	44	09/28/20	SB	BM	P	
09/23/20	10640	P-3941/P-3942	217' N of SEOS	BO	09/26/20	9:42 AM	2X5	P	JLO	44	09/28/20	SB	BM	P	
09/23/20	10641	P-3941	7' S of NEOS/4' W	DO	09/25/20	2:19 PM	2X2	P	JLO	44	09/28/20	SB	BM	P	
09/23/20	10642	P-3942	14' S of NEOS/4' W	DO	09/25/20	2:22 PM	2X2	P	JLO	44	09/28/20	SB	BM	P	
09/23/20	10643	P-3942	21' S of NEOS/4' W	DO	09/25/20	2:24 PM	2X2	P	JLO	44	09/28/20	SB	BM	P	
09/23/20	10644	P-3944/P-3945	199' S of NEOS	W	09/26/20	1:55 PM	3X7	P	WL	49	09/28/20	SB	BM	P	
09/23/20	10645	P-3941/P-3942	150' S of NEOS	DF-1379	09/26/20	10:30 AM	2X5	DF-1379	JLO	44	09/28/20	SB	BM	P	
09/23/20	10646	P-3944/P-3945	14' S of NEOS	DF-1380	09/25/20	4:14 PM	2X5	DF-1380	JLO	44	09/28/20	SB	BM	P	
09/23/20	10647	P-3945/P-3946/P-3947	Intersection	INT	09/25/20	4:34 PM	3X5	P	JLO	44	09/28/20	SB	BM	P	

Note: CAP information is located on Fusion Welding Summary

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Defect / Repair Summary

Location: AT - Anchor Trench; TI - Tie In; N EOS - North End of Seam; E EOS - East End of Seam; S EOS - South End of Seam; W EOS - West End of Seam
Defect Type: FM - Fishmouth; BO - Burnout; W - Wrinkle; BS - Boot Skirt; DF - Fusion Destruct; DX - Extrusion Destruct; PU - Puncture; PT - Pressure Test; INT - Panel Intersection
FS - Failed Seam; DO - Damage by Others; WR - Welder Restart; IO - Insufficient Overlap; MD - Manufacturer Defect; FVT - Failed Vacuum Test
Defect Repair: P - Patch; C - Cap; B - Bead

Defect Date	Defect Number	Seam/Panel Number	Location	Defect Type	Defect Repair						Repair Vacuum Test				Remarks
					Repair Date	Time	Size	Type	Operator	Machine Number	Test Date	Tech	QA Monitor	P/F	
09/23/20	10648	P-3946/P-3947/P-3948	Intersection	INT	09/26/20	11:19 AM	2X5	P	JLO	44	09/28/20	SB	BM	P	
09/23/20	10649	P-3945/P-3946	14' S of NEOS	DF-1381	09/26/20	4:03 PM	2X5	DF-1381	JLO	44	09/28/20	SB	BM	P	
09/23/20	10650	P-3947/P-3948/P-3949	Intersection	INT	09/26/20	1:30 PM	3X4	P	JLO	44	09/28/20	SB	BM	P	
09/23/20	10651	P-3948/P-3949/P-3950	Intersection	INT	09/26/20	1:45 PM	2X3	P	WL	49	09/28/20	SB	BM	P	
09/23/20	10652	P-3948/P-3949	13' W of EEOS	DF-1382	09/26/20	1:40 PM	2X5	DF-1382	WL	49	09/28/20	SB	BM	P	
09/23/20	10653	P-3949/P-3950/P-3951	Intersection	INT	09/26/20	11:50 AM	3X6	P	WL	49	09/28/20	SB	BM	P	
09/23/20	10654	P-3948/P-3950	67' N of SEOS	DF-1383	09/26/20	11:46 AM	2X5	DF-1383	WL	49	09/28/20	SB	BM	P	
09/24/20	10655	P-3950/P-3951/P-3952	Intersection	INT	09/26/20	10:35 AM	3X5	P	WL	49	09/28/20	SB	BM	P	
09/24/20	10656	P-3950/P-3951	153' N of SEOS	DF-1384	09/26/20	1:09 PM	2X5	DF-1384	JLO	44	09/28/20	SB	BM	P	
09/24/20	10657	P-3954/P-3955/P-3956	Intersection	INT	09/25/20	2:14 PM	2X3	P	JLO	44	09/28/20	SB	BM	P	
09/24/20	10658	P-3954/P-3955	66' S of NEOS	DF-1385	09/26/20	1:29 PM	2X5	DF-1385	JLO	44	09/28/20	SB	BM	P	
09/24/20	10659	P-3957/P-3958/P-3959	Intersection	INT	09/26/20	1:49 PM	2X4	P	JLO	44	09/28/20	SB	BM	P	
09/24/20	10660	P-3955/P-3957/P-3959	Intersection	INT	09/26/20	1:56 PM	2X3	P	JLO	44	09/28/20	SB	BM	P	
09/24/20	10661	P-3955/P-3956/P-3959	Intersection	INT	09/26/20	2:04 PM	2X2	P	JLO	44	09/28/20	SB	BM	P	
09/24/20	10662	P-3954/P-3956/P-3959	Intersection	INT	09/26/20	2:26 PM	3X3	P	JLO	44	09/28/20	SB	BM	P	
09/24/20	10663	P-3953/P-3954/P-3959	Intersection	INT	09/26/20	10:25 AM	3X5	P	WL	49	09/28/20	SB	BM	P	
09/24/20	10664	P-3960/P-3961/P-3962	Intersection	INT	09/26/20	10:46 AM	3X4	P	AA	25	09/28/20	SB	BM	P	
09/24/20	10665	P-3961/P-3962/P-3963	Intersection	INT	09/26/20	10:55 AM	2X3	P	AA	25	09/28/20	SB	BM	P	
09/24/20	10666	P-3959/P-3960	2' S of NEOS	DF-1386	09/26/20	11:32 AM	2X5	DF-1386	AA	25	09/28/20	SB	BM	P	
09/24/20	10667	P-3939/P-3940	15' S of NEOS	PT	09/25/20	1:45 PM	2X2	P	JLO	44	09/28/20	SB	BM	P	
09/24/20	10668	P-3963/P-3964	124' S of NEOS	IO	09/26/20	2:00 PM	2X5	P	AA	25	09/28/20	SB	BM	P	
09/24/20	10669	P-3964/P-3965/P-3966	Intersection	INT	09/26/20	1:22 PM	2X3	P	AA	25	09/28/20	SB	BM	P	
09/24/20	10670	P-3960/P-3961	74' S of NEOS	DF-1387	09/26/20	11:05 AM	2X5	DF-1387	AA	25	09/28/20	SB	BM	P	
09/24/20	10671	P-3962/P-3963	126' S of NEOS	DF-1388	09/26/20	9:10 AM	2X8	DF-1388	AA	25	09/28/20	SB	BM	P	
09/24/20	10672	P-3966/P-3967	105' S of NEOS	DF-1389	09/26/20	1:30 PM	2X5	DF-1389	AA	25	09/28/20	SB	BM	P	
09/24/20	10673	P-3963/P-3964/P-3966	Intersection	INT	09/26/20	1:50 PM	2X10	P	AA	25	09/28/20	SB	BM	P	
09/24/20	10674	P-3944/P-3945	145' S of NEOS	PT	09/26/20	11:04 AM	2X2	P	JLO	44	09/28/20	SB	BM	P	
09/25/20	10675	P-3946/P-3948	17' S of NEOS	PT	09/25/20	3:45 PM	3X18	C	JLO	44	09/28/20	SB	BM	P	
09/25/20	10676	P-3963/P-3964	42' S of NEOS	BO	09/26/20	1:06 PM	2X2	P	AA	25	09/28/20	SB	BM	P	
09/25/20	10677	P-3441/P-3713/P-3877	Intersection	INT	09/25/20	8:27 AM	2X2	P	AA	25	09/26/20	SB	BM	P	
09/25/20	10678	P-3713/P-3877/P-3878	Intersection	INT	09/25/20	8:35 AM	2X2	P	AA	25	09/26/20	SB	BM	P	
09/25/20	10679	P-3713/P-3714/P-3878	Intersection	INT	09/25/20	8:40 AM	2X2	P	AA	25	09/26/20	SB	BM	P	
09/25/20	10680	P-3714/P-3878/P-3879	Intersection	INT	09/25/20	8:50 AM	2X2	P	AA	25	09/26/20	SB	BM	P	
09/25/20	10681	P-3714/P-3717/P-3879	Intersection	INT	09/25/20	9:00 AM	2X2	P	AA	25	09/26/20	SB	BM	P	
09/25/20	10682	P-3717/P-3879/P-3881	Intersection	INT	09/25/20	9:15 AM	2X2	P	AA	25	09/26/20	SB	BM	P	
09/25/20	10683	P-3717/P-3718/P-3881	Intersection	INT	09/25/20	9:20 AM	2X2	P	AA	25	09/26/20	SB	BM	P	
09/25/20	10684	P-3718/P-3881/P-3882	Intersection	INT	09/25/20	9:30 AM	2X2	P	AA	25	09/26/20	SB	BM	P	
09/25/20	10685	P-3718/P-3719/P-3882	Intersection	INT	09/25/20	9:35 AM	2X2	P	AA	25	09/26/20	SB	BM	P	
09/25/20	10686	P-3719/P-37220/P-3882/P-3885	Intersection	INT	09/25/20	9:45 AM	2X3	P	AA	25	09/26/20	SB	BM	P	
09/25/20	10687	P-3720/P-3721/P-3885/P-3887	Intersection	INT	09/25/20	10:00 AM	3X4	P	AA	25	09/26/20	SB	BM	P	
09/25/20	10688	P-3721/P-3722/P-3887/P-3889	Intersection	INT	09/25/20	10:20 AM	3X4	P	AA	25	09/26/20	SB	BM	P	

Note: CAP information is located on Fusion Welding Summary

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Defect / Repair Summary

Location: AT - Anchor Trench; TI - Tie In; N EOS - North End of Seam; E EOS - East End of Seam; S EOS - South End of Seam; W EOS - West End of Seam
Defect Type: FM - Fishmouth; BO - Burnout; W - Wrinkle; BS - Boot Skirt; DF - Fusion Destruct; DX - Extrusion Destruct; PU - Puncture; PT - Pressure Test; INT - Panel Intersection
FS - Failed Seam; DO - Damage by Others; WR - Welder Restart; IO - Insufficient Overlap; MD - Manufacturer Defect; FVT - Failed Vacuum Test
Defect Repair: P - Patch; C - Cap; B - Bead

Defect Date	Defect Number	Seam/Panel Number	Location	Defect Type	Defect Repair						Repair Vacuum Test				Remarks
					Repair Date	Time	Size	Type	Operator	Machine Number	Test Date	Tech	QA Monitor	P/F	
09/25/20	10689	P-3722/P-3723/P-3889/P-3891	Intersection	INT	09/25/20	10:55 AM	2X2	P	AA	25	09/26/20	SB	BM	P	
09/25/20	10690	P-3723/P-3724/P-3891/P-3894	Intersection	INT	09/25/20	11:12 AM	3X3	P	AA	25	09/26/20	SB	BM	P	
09/25/20	10691	P-3724/P-3725/P-3894/P-3897	Intersection	INT	09/25/20	11:26 AM	3X3	P	AA	25	09/26/20	SB	BM	P	
09/25/20	10692	P-3725/P-3726/P-3897/P-3910	Intersection	INT	09/25/20	1:15 PM	2X6	P	AA	25	09/26/20	SB	BM	P	
09/25/20	10693	P-3726/P-3910	5' W of EEOS	DX-272	09/25/20	1:40 PM	2X5	DX-272	AA	25	09/26/20	SB	BM	P	
09/25/20	10694	P-3726/P-3910/P-3912	Intersection	INT	09/25/20	1:25 PM	2X2	P	AA	25	09/26/20	SB	BM	P	
09/25/20	10695	P-3726/P-3727/P-3912	Intersection	INT	09/25/20	1:45 PM	2X2	P	AA	25	09/26/20	SB	BM	P	
09/25/20	10696	P-3727/P-3912/P-3914	Intersection	INT	09/25/20	2:00 PM	2X2	P	AA	25	09/26/20	SB	BM	P	
09/25/20	10697	P-3727/P-3728/P-3914	Intersection	INT	09/25/20	2:07 PM	2X2	P	AA	25	09/26/20	SB	BM	P	
09/25/20	10698	P-3728/P-3914/P-3916	Intersection	INT	09/25/20	2:16 PM	2X2	P	AA	25	09/26/20	SB	BM	P	
09/25/20	10699	P-3728/P-3729/P-3916	Intersection	INT	09/25/20	2:25 PM	2X2	P	AA	25	09/26/20	SB	BM	P	
09/25/20	10700	P-3729/P-3916/P-3918	Intersection	INT	09/25/20	3:00 PM	2X2	P	AA	25	09/26/20	SB	BM	P	
09/25/20	10701	P-3729/P-3730/P-3918	Intersection	INT	09/25/20	3:05 PM	2X2	P	AA	25	09/26/20	SB	BM	P	
09/25/20	10702	P-3730/P-3918/P-3920	Intersection	INT	09/25/20	3:15 PM	2X2	P	AA	25	09/26/20	SB	BM	P	
09/25/20	10703	P-3730/P-3731/P-3920	Intersection	INT	09/25/20	3:23 PM	2X2	P	AA	25	09/26/20	SB	BM	P	
09/25/20	10704	P-3731/P-3920/P-3922	Intersection	INT	09/25/20	3:32 PM	2X2	P	AA	25	09/26/20	SB	BM	P	
09/25/20	10705	P-3731/P-3732/P-3922	Intersection	INT	09/25/20	3:45 PM	2X2	P	AA	25	09/26/20	SB	BM	P	
09/25/20	10706	P-3732/P-3922/P-3924	Intersection	INT	09/25/20	3:55 PM	2X2	P	AA	25	09/26/20	SB	BM	P	
09/25/20	10707	P-3732/P-3733/P-3924	Intersection	INT	09/25/20	3:40 PM	2X2	P	WL	49	09/26/20	SB	BM	P	
09/25/20	10708	P-3924	8' N of SEOS/5' E	DO	09/25/20	3:45 PM	2X2	P	WL	49	09/26/20	SB	BM	P	
09/25/20	10709	P-3733/P-3924/P-3926	Intersection	INT	09/25/20	3:20 PM	2X11	P	WL	49	09/26/20	SB	BM	P	
09/25/20	10710	P-3733/P-3734/P-3926	Intersection	INT	09/25/20	3:10 PM	2X2	P	WL	49	09/26/20	SB	BM	P	
09/25/20	10711	P-3734/P-3926/P-3927	Intersection	INT	09/25/20	3:00 PM	3X4	P	WL	49	09/26/20	SB	BM	P	
09/25/20	10712	P-3734/P-3735/P-3927	Intersection	INT	09/25/20	2:50 PM	2X2	P	WL	49	09/26/20	SB	BM	P	
09/25/20	10713	P-3735/P-3927/P-3928	Intersection	INT	09/25/20	2:45 PM	3X4	P	WL	49	09/26/20	SB	BM	P	
09/25/20	10714	P-3735/P-3736/P-3928	Intersection	INT	09/25/20	2:30 PM	2X2	P	WL	49	09/26/20	SB	BM	P	
09/25/20	10715	P-3736/P-3928/P-3929	Intersection	INT	09/25/20	2:12 PM	3X7	P	WL	49	09/26/20	SB	BM	P	
09/25/20	10716	P-3736/P-3737/P-3929	Intersection	INT	09/25/20	2:00 PM	2X2	P	WL	49	09/26/20	SB	BM	P	
09/25/20	10717	P-3737/P-3929/P-3930	Intersection	INT	09/25/20	1:50 PM	2X8	P	WL	49	09/26/20	SB	BM	P	
09/25/20	10718	P-3737/P-3738/P-3930	Intersection	INT	09/25/20	1:30 PM	2X2	P	WL	49	09/26/20	SB	BM	P	
09/25/20	10719	P-3738/P-3930/P-3931	Intersection	INT	09/25/20	1:14 PM	2X3	P	WL	49	09/26/20	SB	BM	P	
09/25/20	10720	P-3738/P-3739/P-3931	Intersection	INT	09/25/20	1:10 PM	2X2	P	WL	49	09/26/20	SB	BM	P	
09/25/20	10721	P-3739/P-3931	6' E of WEOS	DX-273	09/25/20	1:20 PM	2X5	P	WL	49	09/26/20	SB	BM	P	
09/25/20	10722	P-3739/P-3931/P-3932	Intersection	INT	09/25/20	12:55 PM	2X2	P	WL	49	09/26/20	SB	BM	P	
09/25/20	10723	P-3739/P-3740/P-3932	Intersection	INT	09/25/20	12:40 PM	2X2	P	WL	49	09/26/20	SB	BM	P	
09/25/20	10724	P-3740/P-3932/P-3933	Intersection	INT	09/25/20	11:40 AM	2X2	P	WL	49	09/26/20	SB	BM	P	
09/25/20	10725	P-3740/P-3741/P-3933	Intersection	INT	09/25/20	11:35 AM	2X2	P	WL	49	09/26/20	SB	BM	P	
09/25/20	10726	P-3741/P-3933/P-3934	Intersection	INT	09/25/20	11:25 AM	2X2	P	WL	49	09/26/20	SB	BM	P	
09/25/20	10727	P-3741/P-3742/P-3934	Intersection	INT	09/25/20	11:00 AM	2X2	P	WL	49	09/26/20	SB	BM	P	
09/25/20	10728	P-3742/P-3934/P-3935	Intersection	INT	09/25/20	10:55 AM	2X2	P	WL	49	09/26/20	SB	BM	P	
09/25/20	10729	P-3742/P-3743/P-3935	Intersection	INT	09/25/20	10:45 AM	2X2	P	WL	49	09/26/20	SB	BM	P	

Note: CAP information is located on Fusion Welding Summary

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Defect / Repair Summary

Location: AT - Anchor Trench; TI - Tie In; N EOS - North End of Seam; E EOS - East End of Seam; S EOS - South End of Seam; W EOS - West End of Seam
Defect Type: FM - Fishmouth; BO - Burnout; W - Wrinkle; BS - Boot Skirt; DF - Fusion Destruct; DX - Extrusion Destruct; PU - Puncture; PT - Pressure Test; INT - Panel Intersection
FS - Failed Seam; DO - Damage by Others; WR - Welder Restart; IO - Insufficient Overlap; MD - Manufacturer Defect; FVT - Failed Vacuum Test
Defect Repair: P - Patch; C - Cap; B - Bead

Defect Date	Defect Number	Seam/Panel Number	Location	Defect Type	Defect Repair						Repair Vacuum Test				Remarks
					Repair Date	Time	Size	Type	Operator	Machine Number	Test Date	Tech	QA Monitor	P/F	
09/25/20	10730	P-3743/P-3935/P-3936	Intersection	INT	09/25/20	10:30 AM	2X2	P	WL	49	09/26/20	SB	BM	P	
09/25/20	10731	P-3743/P-3744/P-3936	Intersection	INT	09/25/20	10:10 AM	2X2	P	WL	49	09/26/20	SB	BM	P	
09/25/20	10732	P-3744/P-3936/P-3937	Intersection	INT	09/25/20	10:05 AM	2X2	P	WL	49	09/26/20	SB	BM	P	
09/25/20	10733	P-3744/P-3745/P-3937	Intersection	INT	09/25/20	9:45 AM	2X2	P	WL	49	09/26/20	SB	BM	P	
09/25/20	10734	P-3745/P-3937/P-3938	Intersection	INT	09/25/20	9:35 AM	2X2	P	WL	49	09/26/20	SB	BM	P	
09/25/20	10735	P-3745/P-3746/P-3938	Intersection	INT	09/25/20	9:30 AM	2X2	P	WL	49	09/26/20	SB	BM	P	
09/25/20	10736	P-3746/P-3938/P-3939	Intersection	INT	09/25/20	9:20 AM	2X2	P	WL	49	09/26/20	SB	BM	P	
09/25/20	10737	P-3746/P-3947/P-3939	Intersection	INT	09/25/20	9:10 AM	2X2	P	WL	49	09/26/20	SB	BM	P	
09/25/20	10738	P-3737/P-3939/P-3940	Intersection	INT	09/25/20	9:05 AM	2X6	P	WL	49	09/26/20	SB	BM	P	
09/25/20	10739	P-3747/P-3748/P-3940	Intersection	INT	09/25/20	8:55 AM	2X2	P	WL	49	09/26/20	SB	BM	P	
09/25/20	10740	P-3748/P-3940/P-3941	Intersection	INT	09/25/20	8:50 AM	3X3	P	WL	49	09/26/20	SB	BM	P	
09/25/20	10741	P-3748/P-3749/P-3941	Intersection	INT	09/25/20	8:45 AM	2X2	P	WL	49	09/26/20	SB	BM	P	
09/25/20	10742	P-3749/P-3941/P-3942	Intersection	INT	09/26/20	8:05 AM	2X2	P	WL	49	09/26/20	SB	BM	P	
09/25/20	10743	P-3749/P-3750/P-3942	Intersection	INT	09/26/20	8:08 AM	2X2	P	WL	49	09/26/20	SB	BM	P	
09/25/20	10744	P-3750/P-3942/P-3943	Intersection	INT	09/26/20	8:35 AM	2X2	P	WL	49	09/26/20	SB	BM	P	
09/25/20	10745	P-3750/P-3751/P-3943	Intersection	INT	09/26/20	8:40 AM	2X2	P	WL	49	09/26/20	SB	BM	P	
09/25/20	10746	P-3751/P-3943/P-3944	Intersection	INT	09/26/20	8:46 AM	2X2	P	WL	49	09/26/20	SB	BM	P	
09/25/20	10747	P-3751/P-3755/P-3944	Intersection	INT	09/26/20	8:50 AM	2X2	P	WL	49	09/26/20	SB	BM	P	
09/25/20	10748	P-3755/P-3756/P-3944/P-3955	Intersection	INT	09/26/20	9:05 AM	2X7	P	WL	49	09/26/20	SB	BM	P	
09/25/20	10749	P-3756/P-3945/P-3947	Intersection	INT	09/26/20	9:28 AM	2X3	P	WL	49	09/26/20	SB	BM	P	
09/25/20	10750	P-3756/P-3759/P-3947	Intersection	INT	09/26/20	9:30 AM	2X2	P	WL	49	09/26/20	SB	BM	P	
09/25/20	10751	P-3759/P-3762/P-3947/P-3949	Intersection	INT	09/26/20	9:47 AM	4X4	P	WL	49	09/26/20	SB	BM	P	
09/25/20	10752	P-3762/P-3949/P-3951	Intersection	INT	09/26/20	10:10 AM	2X2	P	WL	49	09/26/20	SB	BM	P	
09/25/20	10753	P-3762/P-3764/P-3951	Intersection	INT	09/26/20	10:14 AM	2X2	P	WL	49	09/26/20	SB	BM	P	
09/25/20	10754	P-3764/P-3951	7' W of EEOS	DX-274	09/26/20	11:02 AM	2X5	DX-274	WL	49	09/26/20	SB	BM	P	
09/25/20	10755	P-3764/P-3951/P-3952	Intersection	INT	09/26/20	10:30 AM	2X8	P	WL	49	09/26/20	SB	BM	P	
09/25/20	10756	P-3764/P-3766/P-3952	Intersection	INT	09/26/20	10:25 AM	2X2	P	AA	25	09/26/20	SB	BM	P	
09/25/20	10757	P-3766/P-3952/P-3953/P-3959	Intersection	INT	09/26/20	10:20 AM	3X11	C	AA	25	09/26/20	SB	BM	P	
09/25/20	10758	P-3766/P-3959	3' E of WEOS	DX-275	09/26/20	11:10 AM	2X5	DX-275	AA	25	09/26/20	SB	BM	P	
09/25/20	10759	P-3766/P-3767/P-3959	Intersection	INT	09/26/20	10:06 AM	2X2	P	AA	25	09/26/20	SB	BM	P	
09/25/20	10760	P-3767/P-3959/P-3960	Intersection	INT	09/26/20	10:00 AM	2X2	P	AA	25	09/26/20	SB	BM	P	
09/25/20	10761	P-3767/P-3768/P-3960	Intersection	INT	09/26/20	9:41 AM	2X2	P	AA	25	09/26/20	SB	BM	P	
09/25/20	10762	P-3768/P-3769/P-3960	Intersection	INT	09/26/20	9:40 AM	2X2	P	AA	25	09/26/20	SB	BM	P	
09/25/20	10763	P-3769/P-3960/P-3962	Intersection	INT	09/26/20	9:35 AM	2X6	PP	AA	25	09/26/20	SB	BM	P	
09/25/20	10764	P-3769/P-3770/P-3962	Intersection	INT	09/26/20	9:24 AM	2X2	P	AA	25	09/26/20	SB	BM	P	
09/25/20	10765	P-3770/P-3962/P-3963	Intersection	INT	09/26/20	-	-	P	AA	25	-	-	-	-	COVERED BY D-10671
09/25/20	10766	P-3770/P-3963/P-3966	Intersection	INT	09/26/20	9:02 AM	3X3	P	AA	25	09/26/20	SB	BM	P	
09/25/20	10767	P-3770/P-3771/P-3966	Intersection	INT	09/26/20	8:55 AM	2X2	P	AA	25	09/26/20	SB	BM	P	
09/25/20	10768	P-3771/P-3966/P-3967	Intersection	INT	09/26/20	8:47 AM	3X6	P	AA	25	09/26/20	SB	BM	P	
09/25/20	10769	P-3771/P-3772/P-3967	Intersection	INT	09/26/20	8:37 AM	2X2	P	AA	25	09/26/20	SB	BM	P	
09/25/20	10770	P-3772/P-3773/P-3967	Intersection	INT	09/26/20	8:24 AM	2X2	P	AA	25	09/26/20	SB	BM	P	

Note: CAP information is located on Fusion Welding Summary

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Geomembrane Defect / Repair Summary

Location: AT - Anchor Trench; TI - Tie In; N EOS - North End of Seam; E EOS - East End of Seam; S EOS - South End of Seam; W EOS - West End of Seam
Defect Type: FM - Fishmouth; BO - Burnout; W - Wrinkle; BS - Boot Skirt; DF - Fusion Destruct; DX - Extrusion Destruct; PU - Puncture; PT - Pressure Test; INT - Panel Intersection
FS - Failed Seam; DO - Damage by Others; WR - Welder Restart; IO - Insufficient Overlap; MD - Manufacturer Defect; FVT - Failed Vacuum Test
Defect Repair: P - Patch; C - Cap; B - Bead

Defect Date	Defect Number	Seam/Panel Number	Location	Defect Type	Defect Repair						Repair Vacuum Test				Remarks
					Repair Date	Time	Size	Type	Operator	Machine Number	Test Date	Tech	QA Monitor	P/F	
09/25/20	10771	P-3773/P-3967/P-3968	Intersection	INT	09/26/20	8:23 AM	2X2	P	AA	25	09/26/20	SB	BM	P	
09/25/20	10772	P-3773/P-3774/P-3968	Intersection	INT	09/26/20	8:15 AM	2X2	P	AA	25	09/26/20	SB	BM	P	
09/25/20	10773	P-3762/P-3949	16' W of EEOS	DX-274P	09/26/20	1:13 PM	2X7	DX-274P	WL	49	09/26/20	SB	BM	P	
09/25/20	10774	P-3764/P-3951	17' W of EEOS	DX-274N	09/26/20	1:20 PM	2X9	DX-274N	WL	49	09/26/20	SB	BM	P	

Note: CAP information is located on Fusion Welding Summary

APPENDIX J.8 – GEOMEMBRANE ACCEPTANCE FORMS

Geomembrane Acceptance Form

NewFields
Perspective. Vision. Solutions.

Client: Cripple Creek & Victor Mining Co.
Project: Squaw Gulch VLF IIA
Project No.: 475.0106.032
Contractor: Tezak/AEG
Weather: partly cloudy
Date: 9/15/2020

Panels: P-3713 through P-3750

Items Inspected:
All seaming and repair work is complete in the accepted area
All seams and repairs have been pressure tested or vacuum tested
All destructive samples have been tested and meet project specifications
As-built panel layout, deployment logs, seaming logs, pressure testing logs, vacuum testing logs, repair logs, and destructive testing logs have been reviewed and approved for DCF placement.

Testing Performed:
Pressure Testing
Vacuum Testing
Destructive Testing
Survey Completed

Deficient Items: None

Remedial Actions: N/A

Geomembrane Accepted: YES ✓ NO

Comments:

Signatures:

NewFields: Date: 9/15/20
Tezak: Date: 9/15/20
AEG: Date: 9.15.20
CC&V: John Shufflett Date: 9/15/2020
Other: Date:

Geomembrane Acceptance Form

NewFields
Perspective. Vision. Solutions.

Client:	Cripple Creek & Victor Mining Co.	**Contractor:**	Tezak/AEG
Project:	Squaw Gulch VLF IIA	**Weather:**	Cloudy
Project No.:	475.0106.032	**Date:**	9/18/20

Panels: P-3751 through P-3876

Items Inspected:
- All seaming and repair work is complete in the accepted area
- All seams and repairs have been pressure tested or vacuum tested
- All destructive samples have been tested and meet project specifications
- As-built panel layout, deployment logs, seaming logs, pressure testing logs, vacuum testing logs, repair logs, and destructive testing logs have been reviewed and approved for DCF placement.

Testing Performed:

Pressure Testing	Destructive Testing
Vacuum Testing	Survey Completed

Deficient Items: None

Remedial Actions: N/A

Geomembrane Accepted: YES ✓ NO _____

Comments:

Signatures:

NewFields:		**Date:** 9/18/20
Tezak:		**Date:** 9/18/20
AEG:		**Date:** 9-18-20
CC&V:	John Shufleldt	**Date:** 9/18/2020
Other:		**Date:**

Geomembrane Acceptance Form

NewFields
Perspective. Vision. Solutions.

Client: Cripple Creek & Victor Mining Co.
Contractor: Tezak/AEG
Project: Squaw Gulch VLF IIA
Weather: 47°F Clear
Project No.: 475.0106.032
Date: 9-28-2020

Panels: P-3877 thru P-3968

Items Inspected:
All seaming and repair work is complete in the accepted area
All seams and repairs have been pressure tested or vacuum tested
All destructive samples have been tested and meet project specifications
As-built panel layout, deployment logs, seaming logs, pressure testing logs, vacuum testing logs, repair logs, and destructive testing logs have been reviewed and approved for DCF placement.

Testing Performed:
Pressure Testing
Destructive Testing
Vacuum Testing
Survey Completed

Deficient Items: None.

Remedial Actions:

Geomembrane Accepted: YES X NO

Comments:

Signatures:

NewFields: Date: 9-28-20

Tezak: Tim Parrott Date: 9/28/20

AEG: Date: 9-28-20

CC&V: Date: 9-28-20

Other: Date:

APPENDIX K – THIRD PARTY CONFORMANCE TESTING RESULTS

APPENDIX K.1 – 80MIL LLDPE GEOMEMBRANE CONFORMANCE TESTING

APPENDIX K.2 – GEOGRID CONFORMANCE TESTING

APPENDIX K.1 – 80MIL LLDPE GEOMEMBRANE CONFORMANCE TESTING

December 26, 2019

GAI-LAP
Initial: CVZ #:0.13
DATE: 12/20/2019

Nikoliya Boyanich
NewFields
9400 Station Street, Suite 300
Lone Tree, CO, 80124

Re: FINAL LABORATORY TEST REPORT

Dear Ms. Boyanich:

Thank you for consulting TRI California for your material testing needs.

Enclosed is the ***final*** laboratory report for the Conformance testing of number of four (4) 80mil LLDPE Microspike geomembrane samples.

PROJECT NAME: CC&V VLF2 Phase 2B DATE REPORTED: **December 26, 2019**

REFERENCE TRI JOB NO.: G192048

DATE RECEIVED: December 11, 2019

SAMPLED BY: TRI-CA at AGRU, NV

SAMPLE IDENTIFICATIONS:

SAMPLE ID	*TRI CONTROL NUMBER*
R# FNB0047810003 L#DKJ810770	145806
R# FNB0047810018 L#DKJ810770	145807
R# FNB0047810033 L#DKJ810770	145808
R# FNB0047810048 L#DKJ810770	145809

TESTS REQUIRED / PERFORMED:

TEST METHOD	*DESCRIPTION*
1. ASTM D5994	Thickness
2. ASTM D6693	Tensile Properties
3. ASTM D792	Specific Gravity
4. ASTM D4218	Carbon Content Muffle

TEST RESULTS: The test results are summarized in the attached Tables 1 to 4.

Note: The general conditioning and testing of the material samples identified in this report were performed within the range of the laboratory environmental conditions; i.e., 20-24°C and 45-65% RH. Otherwise, the actual environmental conditions are indicated in the respective test method reported.

Respectfully,
TRI Environmental, Inc. - California

Maria Espitia
Quality Assurance

Cora Queja
TRI-CA Director

Signatures are on file

It shall be noted that the samples tested are believed to be true representatives of the material produced under the designation herein stated. In addition, the attached laboratory tests results are considered indicative only of the quality of samples/specimens that were actually tested. The appropriate test methods hereby employed are based on the current and accepted industry practices. TRI neither accepts responsibility for nor makes claims to the intended final use and purpose of the material. The test data and all associated project information shall be held confidential and not to be reproduced and/or disclosed to other parties except in full and with prior written approval from pertinent entity duly authorized by the respective client or from the client itself. It is our policy to keep physical records of each job for two (2) years commencing from the date of receipt of the samples and keep its corresponding electronic file for seven (7) years. ***Retained conformance samples are disposed of after one (1) month.*** On the other hand, should you need us to keep them at a longer period, please advise us in writing.

5 Pages Total *(including this sheet)*

TABLE 1.

MATERIAL PROPERTIES

CLIENT: Newfields

PROJECT: CC&V VLF2 Phase 2B

Date Received: **12/11/2019**
Date Reported: **12/26/2019**
Client Sample ID: **R#FNB0047810003 L#DKJ810770**
Material Description: **80mil LLDPE Microspike Geomembrane**

QC'd By: Maria Espitia
TRI Job No.: **G192048**
TRI Control No.: **145806**

		SPECIMENS														Proj.
		1	2	3	4	5	6	7	8	9	10	Avg.	Std. Dev.	Min	Max	Specs.
METHOD	**DESCRIPTION**															
ASTM D5994	Thickness (mils)															
	Apparatus: Dead-weight dial micrometer with gauge points tapered at an angle of 60° +/- 2° to the horizontal with the tip rounded to a radius of 0.8+/-0.1 mm(0.031+/-0.004 in), with a specified force of 0.56+/-0.05 N (2+/-0.2 oz) Loading Time: 5 sec Specimen Size: 4" x 4"														**68 min. 76 MARV**
		80	**80**	**81**	**82**	**84**	**82**	**81**	**80**	**80**	**81**	**81**	**1**	**80**	**84**	**80 nominal**
ASTM D792	Specific Gravity (23/ 23°C)															
Method A		**0.9365**	**0.9364**									**0.9365**	**0.0000**	**0.9364**	**0.9365**	**0.939 max.**
ASTM D6693	Tensile Properties:															
Type IV	*Test Specimens: Type IV, Width of narrow section:0.25in, Length of narrow section:1.3in, Width Overall:0.75in, Length Overall: 4.5in Conditioning: Conducted test in standard laboratory atmosphere of 23+/-2° C (73.4+/-3.6° F), and 50+/-5% relative humidity. Rate of Separation: 2"/min*															
	Tensile Strength at Break (lbs/ in.- width)															
	MD	**244**	**267**	**243**	**264**	**237**						**251**	**14**	**237**	**267**	**120 min.**
	TD	**268**	**290**	**263**	**274**	**289**						**277**	**13**	**263**	**290**	
	Elongation at Break (percent, %)					*Gauge Length = 2.0 in.*										
	MD	**482**	**495**	**493**	**521**	**475**						**493**	**18**	**475**	**521**	**250 min.**
	TD	**574**	**613**	**566**	**596**	**617**						**593**	**23**	**566**	**617**	
ASTM D4218	Carbon Content															
	Apparatus: Muffle Furnace															
		2.46	**2.39**									**2.42**	**0.05**	**2.39**	**2.46**	**2 - 3**

(End of Table 1)

By accepting the data and results presented on this report, the Client agrees to limit the liability of TRI Environmental, Inc. from Client and all other parties for claims on issues, due to the use of this data, to the cost for the respective tests presented in this report; and the Client agrees to indemnify and hold harmless TRI Environmental, Inc. from and against all liabilities in excess of the aforementioned limit.

LEGENDS:
MD - MACHINE DIRECTION
TD- TRANSVERSE DIRECTION

TABLE 2.

MATERIAL PROPERTIES

CLIENT: Newfields

PROJECT: CC&V VLF2 Phase 2B

Date Received: **12/11/2019**
Date Reported: **12/26/2019**
Client Sample ID: **R#FNB0047810018 L#DKJ810770**
Material Description: **80mil LLDPE Microspike Geomembrane**

QC'd By: Maria Espitia
TRI Job No.: **G192048**
TRI Control No.: **145807**

METHOD	DESCRIPTION	SPECIMENS 1	2	3	4	5	6	7	8	9	10	Avg.	Std. Dev.	Min	Max	Proj. Specs.
ASTM D5994	Thickness (mils)															
	Apparatus: Dead-weight dial micrometer with gauge points tapered at an angle of 60° +/- 2° to the horizontal with the tip rounded to a radius of 0.8+/-0.1 mm(0.031+/-0.004 in), with a specified force of 0.56+/-0.05 N (2+/-0.2 oz)															**68 min.**
	Loading Time: 5 sec Specimen Size: 4" x 4"															**76 MARV**
		82	**82**	**84**	**82**	**83**	**80**	**82**	**80**	**81**	**81**	**82**	**1**	**80**	**84**	**80 nominal**
ASTM D792	Specific Gravity (23/ 23°C)															
Method A		**0.9351**	**0.9352**									**0.9352**	**0.0000**	**0.9351**	**0.9352**	**0.939 max.**
ASTM D6693	Tensile Properties:															
Type IV	*Test Specimens: Type IV, Width of narrow section:0.25in, Length of narrow section:1.3in, Width Overall:0.75in, Length Overall: 4.5in Conditioning: Conducted test in standard laboratory atmosphere of 23+/-2° C (73.4+/-3.6° F), and 50+/-5% relative humidity. Rate of Separation: 2"/min*															
	Tensile Strength at Break (lbs/ in.- width)															
	MD	**257**	**243**	**242**	**276**	**277**						**259**	**17**	**242**	**277**	**120 min.**
	TD	**276**	**293**	**263**	**285**	**277**						**279**	**11**	**263**	**293**	
	Elongation at Break (percent, %) *Gauge Length = 2.0 in.*															
	MD	**498**	**501**	**466**	**531**	**530**						**505**	**27**	**466**	**531**	**250 min.**
	TD	**594**	**616**	**585**	**618**	**621**						**607**	**16**	**585**	**621**	
ASTM D4218	Carbon Content															
	Apparatus: Muffle Furnace															
		2.48	**2.53**									**2.50**	**0.04**	**2.48**	**2.53**	**2 - 3**

(End of Table 2)

By accepting the data and results presented on this report, the Client agrees to limit the liability of TRI Environmental, Inc. from Client and all other parties for claims on issues, due to the use of this data, to the cost for the respective tests presented in this report; and the Client agrees to indemnify and hold harmless TRI Environmental, Inc. from and against all liabilities in excess of the aforementioned limit.

LEGENDS:
MD - MACHINE DIRECTION
TD- TRANSVERSE DIRECTION

TABLE 3.

MATERIAL PROPERTIES

CLIENT: Newfields

PROJECT: CC&V VLF2 Phase 2B

Date Received: **12/11/2019**
Date Reported: **12/26/2019**
Client Sample ID: **R#FNB0047810033 L#DKJ810770**
Material Description: **80mil LLDPE Microspike Geomembrane**

QC'd By: Maria Espitia
TRI Job No.: **G192048**
TRI Control No.: **145808**

		SPECIMENS														
		1	2	3	4	5	6	7	8	9	10	Avg.	Std. Dev.	Min	Max	Proj. Specs.
METHOD	**DESCRIPTION**															
ASTM D5994	Thickness (mils)															
	Apparatus: Dead-weight dial micrometer with gauge points tapered at an angle of 60° +/- 2° to the horizontal with the tip rounded to a radius of 0.8+/-0.1 mm(0.031+/-0.004 in), with a specified force of 0.56+/-0.05 N (2+/-0.2 oz)															**68 min.**
	Loading Time: 5 sec Specimen Size: 4" x 4"															**76 MARV**
		83	**82**	**82**	**81**	**81**	**82**	**81**	**80**	**83**	**82**	**82**	**1**	**80**	**83**	**80 nominal**
ASTM D792	Specific Gravity (23/ 23°C)															
Method A		**0.9352**	**0.9349**									**0.9350**	**0.0002**	**0.9349**	**0.9352**	**0.939 max.**
ASTM D6693	Tensile Properties:															
Type IV	*Test Specimens: Type IV, Width of narrow section:0.25in, Length of narrow section:1.3in, Width Overall:0.75in, Length Overall: 4.5in Conditioning: Conducted test in standard laboratory atmosphere of 23+/-2° C (73.4+/-3.6° F), and 50+/-5% relative humidity. Rate of Separation: 2"/min*															
	Tensile Strength at Break (lbs/ in.- width)															
	MD	**262**	**253**	**281**	**263**	**238**						**260**	**15**	**238**	**281**	**120 min.**
	TD	**280**	**285**	**287**	**266**	**296**						**283**	**11**	**266**	**296**	
	Elongation at Break (percent, %)					*Gauge Length = 2.0 in.*										
	MD	**501**	**530**	**552**	**510**	**492**						**517**	**24**	**492**	**552**	**250 min.**
	TD	**599**	**608**	**627**	**606**	**654**						**619**	**22**	**599**	**654**	
ASTM D4218	Carbon Content															
	Apparatus: Muffle Furnace															
		2.47	**2.39**									**2.43**	**0.05**	**2.39**	**2.47**	**2 - 3**

(End of Table 3)

By accepting the data and results presented on this report, the Client agrees to limit the liability of TRI Environmental, Inc. from Client and all other parties for claims on issues, due to the use of this data, to the cost for the respective tests presented in this report; and the Client agrees to indemnify and hold harmless TRI Environmental, Inc. from and against all liabilities in excess of the aforementioned limit.

LEGENDS:
MD - MACHINE DIRECTION
TD- TRANSVERSE DIRECTION

TABLE 4.

MATERIAL PROPERTIES

CLIENT: Newfields

PROJECT: CC&V VLF2 Phase 2B

Date Received: **12/11/2019**
Date Reported: **12/26/2019**
Client Sample ID: **R#FNB0047810048 L#DKJ810770**
Material Description: **80mil LLDPE Microspike Geomembrane**

QC'd By: Maria Espitia
TRI Job No.: **G192048**
TRI Control No.: **145809**

		SPECIMENS														Proj.
		1	2	3	4	5	6	7	8	9	10	Avg.	Std. Dev.	Min	Max	Specs.
METHOD	**DESCRIPTION**															
ASTM D5994	Thickness (mils)															
	Apparatus: Dead-weight dial micrometer with gauge points tapered at an angle of 60° +/- 2° to the horizontal with the tip rounded to a radius of 0.8+/-0.1 mm(0.031+/-0.004 in), with a specified force of 0.56+/-0.05 N (2+/-0.2 oz)															**68 min.**
	Loading Time: 5 sec Specimen Size: 4" x 4"															**76 MARV**
		82	**82**	**83**	**82**	**83**	**80**	**82**	**80**	**81**	**81**	**81**	**1**	**80**	**83**	**80 nominal**
ASTM D792	Specific Gravity (23/ 23°C)															
Method A		**0.9374**	**0.9374**									**0.9374**	**0.0000**	**0.9374**	**0.9374**	**0.939 max.**
ASTM D6693	Tensile Properties:															
Type IV	*Test Specimens: Type IV, Width of narrow section:0.25in, Length of narrow section:1.3in, Width Overall:0.75in, Length Overall: 4.5in Conditioning: Conducted test in standard laboratory atmosphere of 23+/-2° C (73.4+/-3.6° F), and 50+/-5% relative humidity. Rate of Separation: 2"/min*															
	Tensile Strength at Break (lbs/ in.- width)															
	MD	**237**	**237**	**266**	**291**	**243**						**255**	**23**	**237**	**291**	**120 min.**
	TD	**280**	**271**	**286**	**285**	**276**						**280**	**6**	**271**	**286**	
	Elongation at Break (percent, %)					*Gauge Length = 2.0 in.*										
	MD	**453**	**454**	**517**	**540**	**482**						**489**	**38**	**453**	**540**	**250 min.**
	TD	**617**	**580**	**616**	**600**	**603**						**603**	**15**	**580**	**617**	
ASTM D4218	Carbon Content															
	Apparatus: Muffle Furnace															
		2.43	**2.41**									**2.42**	**0.01**	**2.41**	**2.43**	**2 - 3**

(End of Table 4)

By accepting the data and results presented on this report, the Client agrees to limit the liability of TRI Environmental, Inc. from Client and all other parties for claims on issues, due to the use of this data, to the cost for the respective tests presented in this report; and the Client agrees to indemnify and hold harmless TRI Environmental, Inc. from and against all liabilities in excess of the aforementioned limit.

LEGENDS:
MD - MACHINE DIRECTION
TD- TRANSVERSE DIRECTION

December 26, 2019

GAI-LAP
Initial: CVZ #:0.13
DATE: 12/20/2019

Nikoliya Boyanich
NewFields
9400 Station Street, Suite 300
Lone Tree, CO, 80124

Re: FINAL LABORATORY TEST REPORT

Dear Ms. Boyanich:

Thank you for consulting TRI California for your material testing needs.

Enclosed is the ***final*** laboratory report for the Conformance testing of number of two (2) 80 mil LLDPE Microspike Geomambrane samples.

PROJECT NAME: CC&V VLF2 Phase 2B DATE REPORTED: **December 26, 2019**

REFERENCE TRI JOB NO.: G192062

DATE RECEIVED: December 12, 2019

SAMPLED BY: TRI-CA at AGRU, NV

SAMPLE IDENTIFICATIONS:

SAMPLE ID	*TRI CONTROL NUMBER*
R# FNB0047810063 L#DKJ810770	145869
R# FNB0047810078 L#DKJ810770	145870

TESTS REQUIRED / PERFORMED:

TEST METHOD	*DESCRIPTION*
1. ASTM D5994	Thickness
2. ASTM D6693	Tensile Properties
3. ASTM D792	Specific Gravity
4. ASTM D4218	Carbon Content Muffle

TEST RESULTS: The test results are summarized in the attached Tables 1 to 2.

Note: The general conditioning and testing of the material samples identified in this report were performed within the range of the laboratory environmental conditions; i.e., 20-24°C and 45-65% RH. Otherwise, the actual environmental conditions are indicated in the respective test method reported.

Respectfully,
TRI Environmental, Inc. - California

Maria Espitia
Quality Assurance

Cora Queja
TRI-CA Director

Signatures are on file

It shall be noted that the samples tested are believed to be true representatives of the material produced under the designation herein stated. In addition, the attached laboratory tests results are considered indicative only of the quality of samples/specimens that were actually tested. The appropriate test methods hereby employed are based on the current and accepted industry practices. TRI neither accepts responsibility for nor makes claims to the intended final use and purpose of the material. The test data and all associated project information shall be held confidential and not to be reproduced and/or disclosed to other parties except in full and with prior written approval from pertinent entity duly authorized by the respective client or from the client itself. It is our policy to keep physical records of each job for two (2) years commencing from the date of receipt of the samples and keep its corresponding electronic file for seven (7) years. ***Retained conformance samples are disposed of after one (1) month.*** On the other hand, should you need us to keep them at a longer period, please advise us in writing.

3 Pages Total *(including this sheet)*

TABLE 1.

MATERIAL PROPERTIES

CLIENT: Newfields

PROJECT: CC&V VLF2 Phase 2B

Date Received: **12/11/2019**
Date Reported: **12/26/2019**
Client Sample ID: **R#FNB0047810063 L#DKJ810770**
Material Description: **80mil LLDPE Microspike Geomembrane**

QC'd By: Maria Espitia
TRI Job No.: **G192062**
TRI Control No.: **145869**

METHOD	DESCRIPTION	SPECIMENS 1	2	3	4	5	6	7	8	9	10	Avg.	Std. Dev.	Min	Max	Proj. Specs.
ASTM D5994	Thickness (mils)															
	Apparatus: Dead-weight dial micrometer with gauge points tapered at an angle of 60 ° +/- 2 ° to the horizontal with the tip rounded to a radius of 0.8+/-0.1 mm(0.031+/-0.004 in), with a specified force of 0.56+/-0.05 N (2+/-0.2 oz)															**68 min.**
	Loading Time: 5 sec Specimen Size: 4" x 4"															**76 MARV**
		80	**81**	**81**	**81**	**83**	**80**	**82**	**81**	**81**	**81**	**81**	**1**	**80**	**83**	**80 nominal**
ASTM D792	Specific Gravity (23/ 23°C)															
Method A		**0.9350**	**0.9344**									**0.9347**	**0.0004**	**0.9344**	**0.9350**	**0.939 max.**
ASTM D6693	Tensile Properties:															
Type IV	*Test Specimens: Type IV, Width of narrow section:0.25in, Length of narrow section:1.3in, Width Overall:0.75in, Length Overall: 4.5in Conditioning: Conducted test in standard laboratory atmosphere of 23+/-2 °C (73.4+/-3.6 °F), and 50+/-5% relative humidity. Rate of Separation: 2"/min*															
	Tensile Strength at Break (lbs/ in.- width)															
	MD	**272**	**264**	**254**	**234**	**250**						**255**	**14**	**234**	**272**	**120 min.**
	TD	**315**	**307**	**301**	**276**	**318**						**303**	**17**	**276**	**318**	
	Elongation at Break (percent, %)					*Gauge Length = 2.0 in.*										
	MD	**539**	**506**	**502**	**482**	**511**						**508**	**20**	**482**	**539**	**250 min.**
	TD	**670**	**647**	**649**	**595**	**674**						**647**	**32**	**595**	**674**	
ASTM D4218	Carbon Content															
	Apparatus: Muffle Furnace															
		2.41	**2.44**									**2.43**	**0.02**	**2.41**	**2.44**	**2 - 3**

(End of Table 1)

By accepting the data and results presented on this report, the Client agrees to limit the liability of TRI Environmental, Inc. from Client and all other parties for claims on issues, due to the use of this data, to the cost for the respective tests presented in this report; and the Client agrees to indemnify and hold harmless TRI Environmental, Inc. from and against all liabilities in excess of the aforementioned limit.

LEGENDS:
MD - MACHINE DIRECTION
TD- TRANSVERSE DIRECTION

TABLE 2.

MATERIAL PROPERTIES

CLIENT: Newfields

PROJECT: CC&V VLF2 Phase 2B

Date Received: **12/11/2019**
Date Reported: **12/26/2019**
Client Sample ID: **R#FNB0047810078 L#DKJ810770**
Material Description: **80mil LLDPE Microspike Geomembrane**

QC'd By: Maria Espitia
TRI Job No.: **G192062**
TRI Control No.: **145870**

		SPECIMENS														Proj.
		1	2	3	4	5	6	7	8	9	10	Avg.	Std. Dev.	Min	Max	Specs.
METHOD	**DESCRIPTION**															
ASTM D5994	Thickness (mils)															
	Apparatus: Dead-weight dial micrometer with gauge points tapered at an angle of 60 ^{o} +/- 2 ^{o} to the horizontal with the tip rounded to a radius of 0.8+/-0.1 mm(0.031+/-0.004 in), with a specified force of 0.56+/-0.05 N (2+/-0.2 oz) Loading Time: 5 sec Specimen Size: 4" x 4"															68 min. 76 MARV
		82	**81**	**80**	**80**	**83**	**82**	**80**	**81**	**81**	**81**	**81**	**1**	**80**	**83**	**80 nominal**
ASTM D792	Specific Gravity (23/ 23^{o}C)															
Method A		**0.9375**	**0.9376**									**0.9376**	**0.0000**	**0.9375**	**0.9376**	**0.939 max.**
ASTM D6693	Tensile Properties:															
Type IV	*Test Specimens: Type IV, Width of narrow section:0.25in, Length of narrow section:1.3in, Width Overall:0.75in, Length Overall: 4.5in Conditioning: Conducted test in standard laboratory atmosphere of 23+/-2 ^{0}C (73.4+/-3.6 ^{0}F), and 50+/-5% relative humidity. Rate of Separation: 2"/min*															
	Tensile Strength at Break (lbs/ in.- width)															
	MD	**252**	**258**	**255**	**257**	**264**						**257**	**5**	**252**	**264**	**120 min.**
	TD	**273**	**288**	**283**	**289**	**291**						**285**	**7**	**273**	**291**	
	Elongation at Break (percent, %)					*Gauge Length = 2.0 in.*										
	MD	**496**	**510**	**519**	**521**	**543**						**518**	**17**	**496**	**543**	**250 min.**
	TD	**589**	**620**	**621**	**636**	**629**						**619**	**18**	**589**	**636**	
ASTM D4218	Carbon Content															
	Apparatus: Muffle Furnace															
		2.41	**2.45**									**2.43**	**0.03**	**2.41**	**2.45**	**2 - 3**

(End of Table 2)

By accepting the data and results presented on this report, the Client agrees to limit the liability of TRI Environmental, Inc. from Client and all other parties for claims on issues, due to the use of this data, to the cost for the respective tests presented in this report; and the Client agrees to indemnify and hold harmless TRI Environmental, Inc. from and against all liabilities in excess of the aforementioned limit.

LEGENDS:
MD - MACHINE DIRECTION
TD- TRANSVERSE DIRECTION

December 26, 2019

GAI-LAP
Initial: CVZ #:0.13
DATE: 12/20/2019

Nikoliya Boyanich
NewFields
9400 Station Street, Suite 300
Lone Tree, CO, 80124

Re: FINAL LABORATORY TEST REPORT

Dear Ms. Boyanich:

Thank you for consulting TRI California for your material testing needs.

Enclosed is the ***final*** laboratory report for the Conformance testing of number of two (2) 80mil LLDPE Microspike Geomembrane samples.

PROJECT NAME: CC&V VLF2 Phase 2B DATE REPORTED: **December 26, 2019**

REFERENCE TRI JOB NO.: G192072

DATE RECEIVED: December 16, 2019

SAMPLED BY: TRI-CA at AGRU, NV

SAMPLE IDENTIFICATIONS:

SAMPLE ID	*TRI CONTROL NUMBER*
R# FNB0047810085 L#DKJ810770	145955
R# FNB0047810100 L#DKK810700	145956

TESTS REQUIRED / PERFORMED:

TEST METHOD	*DESCRIPTION*
1. ASTM D5994	Thickness
2. ASTM D6693	Tensile Properties
3. ASTM D792	Specific Gravity
4. ASTM D4218	Carbon Content Muffle

TEST RESULTS: The test results are summarized in the attached Tables 1 to 2.

Note: The general conditioning and testing of the material samples identified in this report were performed within the range of the laboratory environmental conditions; i.e., 20-24°C and 45-65% RH. Otherwise, the actual environmental conditions are indicated in the respective test method reported.

Respectfully,

TRI Environmental, Inc. - California

Maria Espitia
Quality Assurance

Cora Queja
TRI-CA Director

Signatures are on file

It shall be noted that the samples tested are believed to be true representatives of the material produced under the designation herein stated. In addition, the attached laboratory tests results are considered indicative only of the quality of samples/specimens that were actually tested. The appropriate test methods hereby employed are based on the current and accepted industry practices. TRI neither accepts responsibility for nor makes claims to the intended final use and purpose of the material. The test data and all associated project information shall be held confidential and not to be reproduced and/or disclosed to other parties except in full and with prior written approval from pertinent entity duly authorized by the respective client or from the client itself. It is our policy to keep physical records of each job for two (2) years commencing from the date of receipt of the samples and keep its corresponding electronic file for seven (7) years. ***Retained conformance samples are disposed of after one (1) month.*** On the other hand, should you need us to keep them at a longer period, please advise us in writing.

3 Pages Total *(including this sheet)*

TABLE 1.

MATERIAL PROPERTIES

CLIENT: Newfields

PROJECT: CC&V VLF2 Phase 2B

Date Received: **12/16/2019**
Date Reported: **12/26/2019**
Client Sample ID: **R#FNB0047810085 L#DKJ810770**
Material Description: **80mil LLDPE Microspike Geomembrane**

QC'd By: Maria Espitia
TRI Job No.: **G192072**
TRI Control No.: **145955**

		SPECIMENS														Proj.
		1	2	3	4	5	6	7	8	9	10	Avg.	Std. Dev.	Min	Max	Specs.
METHOD	**DESCRIPTION**															
ASTM D5994	Thickness (mils)															
	Apparatus: Dead-weight dial micrometer with gauge points tapered at an angle of 60 ^{o} +/- 2 ^{o} to the horizontal with the tip rounded to a radius of 0.8+/-0.1 mm(0.031+/-0.004 in), with a specified force of 0.56+/-0.05 N (2+/-0.2 oz) Loading Time: 5 sec Specimen Size: 4" x 4"															68 min. 76 MARV
		84	**82**	**82**	**84**	**84**	**81**	**82**	**82**	**80**	**83**	**82**	**1**	**80**	**84**	**80 nominal**
ASTM D792	Specific Gravity (23/ 23^{o}C)															
Method A		**0.9345**	**0.9344**									**0.9344**	**0.0001**	**0.9344**	**0.9345**	**0.939 max.**
ASTM D6693	Tensile Properties:															
Type IV	*Test Specimens: Type IV, Width of narrow section:0.25in, Length of narrow section:1.3in, Width Overall:0.75in, Length Overall: 4.5in Conditioning: Conducted test in standard laboratory atmosphere of 23+/-2 ^{0}C (73.4+/-3.6 ^{0}F), and 50+/-5% relative humidity. Rate of Separation: 2"/min*															
	Tensile Strength at Break (lbs/ in.- width)															
	MD	**251**	**260**	**244**	**250**	**234**						**248**	**10**	**234**	**260**	**120 min.**
	TD	**254**	**253**	**254**	**264**	**254**						**256**	**5**	**253**	**264**	
	Elongation at Break (percent, %)					*Gauge Length = 2.0 in.*										
	MD	**488**	**535**	**492**	**533**	**491**						**508**	**24**	**488**	**535**	**250 min.**
	TD	**593**	**576**	**595**	**624**	**631**						**604**	**23**	**576**	**631**	
ASTM D4218	Carbon Content															
	Apparatus: Muffle Furnace															
		2.36	**2.44**									**2.40**	**0.06**	**2.36**	**2.44**	**2 - 3**

(End of Table 1)

By accepting the data and results presented on this report, the Client agrees to limit the liability of TRI Environmental, Inc. from Client and all other parties for claims on issues, due to the use of this data, to the cost for the respective tests presented in this report; and the Client agrees to indemnify and hold harmless TRI Environmental, Inc. from and against all liabilities in excess of the aforementioned limit.

LEGENDS:
MD - MACHINE DIRECTION
TD- TRANSVERSE DIRECTION

1160 North Gilbert Street, Anaheim, CA 92801, www.precisionlabs.net
Precision Geosynthetic Laboratories International dba TRI Environmental, Inc.

TABLE 2.

MATERIAL PROPERTIES

CLIENT: Newfields

PROJECT: CC&V VLF2 Phase 2B

Date Received: **12/16/2019**
Date Reported: **12/26/2019**
Client Sample ID: **R#FNB0047810100 L#DKK810700**
Material Description: **80mil LLDPE Microspike Geomembrane**

QC'd By: Maria Espitia
TRI Job No.: **G192072**
TRI Control No.: **145956**

		SPECIMENS														Proj.
		1	2	3	4	5	6	7	8	9	10	Avg.	Std. Dev.	Min	Max	Specs.
METHOD	**DESCRIPTION**															
ASTM D5994	Thickness (mils)															
	Apparatus: Dead-weight dial micrometer with gauge points tapered at an angle of 60 ^{o} +/- 2 ^{o} to the horizontal with the tip rounded to a radius of 0.8+/-0.1 mm(0.031+/-0.004 in), with a specified force of 0.56+/-0.05 N (2+/-0.2 oz) Loading Time: 5 sec Specimen Size: 4" x 4"															**68 min. 76 MARV**
		81	**80**	**81**	**82**	**82**	**81**	**84**	**82**	**80**	**82**	**81**	**1**	**80**	**84**	**80 nominal**
ASTM D792	Specific Gravity (23/ 23^{o}C)															
Method A		**0.9378**	**0.9378**									**0.9378**	**0.0000**	**0.9378**	**0.9378**	**0.939 max.**
ASTM D6693	Tensile Properties:															
Type IV	*Test Specimens: Type IV, Width of narrow section:0.25in, Length of narrow section:1.3in, Width Overall:0.75in, Length Overall: 4.5in Conditioning: Conducted test in standard laboratory atmosphere of 23+/-2 ^{0}C (73.4+/-3.6 ^{0}F), and 50+/-5% relative humidity. Rate of Separation: 2"/min*															
	Tensile Strength at Break (lbs/ in.- width)															
	MD	**273**	**264**	**231**	**244**	**232**						**249**	**19**	**231**	**273**	**120 min.**
	TD	**269**	**272**	**251**	**250**	**253**						**259**	**11**	**250**	**272**	
	Elongation at Break (percent, %)					*Gauge Length = 2.0 in.*										
	MD	**519**	**524**	**494**	**502**	**498**						**507**	**13**	**494**	**524**	**250 min.**
	TD	**628**	**615**	**586**	**592**	**615**						**607**	**18**	**586**	**628**	
ASTM D4218	Carbon Content															
	Apparatus: Muffle Furnace															
		2.43	**2.46**									**2.44**	**0.02**	**2.43**	**2.46**	**2 - 3**

(End of Table 2)

By accepting the data and results presented on this report, the Client agrees to limit the liability of TRI Environmental, Inc. from Client and all other parties for claims on issues, due to the use of this data, to the cost for the respective tests presented in this report; and the Client agrees to indemnify and hold harmless TRI Environmental, Inc. from and against all liabilities in excess of the aforementioned limit.

LEGENDS:
MD - MACHINE DIRECTION
TD- TRANSVERSE DIRECTION

December 26, 2019

GAI-LAP
Initial: CVZ #:0.13
DATE: 12/20/2019

Nikoliya Boyanich
NewFields
9400 Station Street, Suite 300
Lone Tree, CO, 80124

Re: FINAL LABORATORY TEST REPORT

Dear Ms. Boyanich:

Thank you for consulting TRI California for your material testing needs.

Enclosed is the ***final*** laboratory report for the Conformance testing of number of three (3) 80mil LLDPE Microspike Geomembrane samples.

PROJECT NAME: CC&V VLF2 Phase 2B DATE REPORTED: **December 26, 2019**

REFERENCE TRI JOB NO.: G192083

DATE RECEIVED: December 17, 2019

SAMPLED BY: TRI-CA at AGRU

SAMPLE IDENTIFICATIONS:

SAMPLE ID	*TRI CONTROL NUMBER*
R# FNB0047810115 L#DKK810700	146015
R# FNB0047810130 L#DKK810700	146016
R# FND0047820005 L#DKK810710	146017

TESTS REQUIRED / PERFORMED:

TEST METHOD	*DESCRIPTION*
1. ASTM D5994	Thickness
2. ASTM D6693	Tensile Properties
3. ASTM D792	Specific Gravity
4. ASTM D4218	Carbon Content Muffle

TEST RESULTS: The test results are summarized in the attached Tables 1 to 3.

Note: The general conditioning and testing of the material samples identified in this report were performed within the range of the laboratory environmental conditions; i.e., 20-24°C and 45-65% RH. Otherwise, the actual environmental conditions are indicated in the respective test method reported.

Respectfully,
TRI Environmental, Inc. - California

Maria Espitia — Quality Assurance

Cora Queja — TRI-CA Director

Signatures are on file

It shall be noted that the samples tested are believed to be true representatives of the material produced under the designation herein stated. In addition, the attached laboratory tests results are considered indicative only of the quality of samples/specimens that were actually tested. The appropriate test methods hereby employed are based on the current and accepted industry practices. TRI neither accepts responsibility for nor makes claims to the intended final use and purpose of the material. The test data and all associated project information shall be held confidential and not to be reproduced and/or disclosed to other parties except in full and with prior written approval from pertinent entity duly authorized by the respective client or from the client itself. It is our policy to keep physical records of each job for two (2) years commencing from the date of receipt of the samples and keep its corresponding electronic file for seven (7) years. ***Retained conformance samples are disposed of after one (1) month.*** On the other hand, should you need us to keep them at a longer period, please advise us in writing.

4 Pages Total *(including this sheet)*

TABLE 1.

MATERIAL PROPERTIES

CLIENT: Newfields

PROJECT: CC&V VLF2 Phase 2B

Date Received: **12/17/2019**
Date Reported: **12/26/2019**
Client Sample ID: **R#FNB0047810115 L#DKK810700**
Material Description: **80mil LLDPE Microspike Geomembrane**

QC'd By: Maria Espitia
TRI Job No.: **G192083**
TRI Control No.: **146015**

		SPECIMENS														Proj.
		1	2	3	4	5	6	7	8	9	10	Avg.	Std. Dev.	Min	Max	Specs.
METHOD	**DESCRIPTION**															
ASTM D5994	Thickness (mils)															
	Apparatus: Dead-weight dial micrometer with gauge points tapered at an angle of 60 ^{o} +/- 2 ^{o} to the horizontal with the tip rounded to a radius of 0.8+/-0.1 mm(0.031+/-0.004 in), with a specified force of 0.56+/-0.05 N (2+/-0.2 oz) Loading Time: 5 sec Specimen Size: 4" x 4"															**68 min. 76 MARV**
		83	**80**	**81**	**80**	**82**	**81**	**82**	**80**	**82**	**80**	**81**	**1**	**80**	**83**	**80 nominal**
ASTM D792	Specific Gravity (23/ 23^{o}C)															
Method A		**0.9348**	**0.9348**									**0.9348**	**0.0000**	**0.9348**	**0.9348**	**0.939 max.**
ASTM D6693	Tensile Properties:															
Type IV	*Test Specimens: Type IV, Width of narrow section:0.25in, Length of narrow section:1.3in, Width Overall:0.75in, Length Overall: 4.5in Conditioning: Conducted test in standard laboratory atmosphere of 23+/-2 ^{0}C (73.4+/-3.6 ^{0}F), and 50+/-5% relative humidity. Rate of Separation: 2"/min*															
	Tensile Strength at Break (lbs/ in.- width)															
	MD	**263**	**263**	**250**	**242**	**242**						**252**	**11**	**242**	**263**	**120 min.**
	TD	**280**	**286**	**280**	**292**	**275**						**283**	**7**	**275**	**292**	
	Elongation at Break (percent, %) *Gauge Length = 2.0 in.*															
	MD	**494**	**539**	**501**	**552**	**486**						**514**	**29**	**486**	**552**	**250 min.**
	TD	**630**	**627**	**618**	**641**	**619**						**627**	**9**	**618**	**641**	
ASTM D4218	Carbon Content															
	Apparatus: Muffle Furnace															
		2.45	**2.41**									**2.43**	**0.03**	**2.41**	**2.45**	**2 - 3**

(End of Table 1)

By accepting the data and results presented on this report, the Client agrees to limit the liability of TRI Environmental, Inc. from Client and all other parties for claims on issues, due to the use of this data, to the cost for the respective tests presented in this report; and the Client agrees to indemnify and hold harmless TRI Environmental, Inc. from and against all liabilities in excess of the aforementioned limit.

LEGENDS:
MD - MACHINE DIRECTION
TD- TRANSVERSE DIRECTION

TABLE 2.

MATERIAL PROPERTIES

CLIENT: Newfields

PROJECT: CC&V VLF2 Phase 2B

Date Received: **12/17/2019**
Date Reported: **12/26/2019**
Client Sample ID: **R#FNB0047810130 L#DKK810700**
Material Description: **80mil LLDPE Microspike Geomembrane**

QC'd By: Maria Espitia
TRI Job No.: **G192083**
TRI Control No.: **146016**

		SPECIMENS														Proj.
		1	2	3	4	5	6	7	8	9	10	Avg.	Std. Dev.	Min	Max	Specs.
METHOD	**DESCRIPTION**															
ASTM D5994	Thickness (mils)															
	Apparatus: Dead-weight dial micrometer with gauge points tapered at an angle of 60 ° +/- 2 ° to the horizontal with the tip rounded to a radius of 0.8+/-0.1 mm(0.031+/-0.004 in), with a specified force of 0.56+/-0.05 N (2+/-0.2 oz) Loading Time: 5 sec Specimen Size: 4" x 4"															**68 min. 76 MARV**
		83	**80**	**84**	**80**	**80**	**82**	**80**	**82**	**81**	**82**	**81**	**1**	**80**	**84**	**80 nominal**
ASTM D792	Specific Gravity (23/ 23°C)															
Method A		**0.9348**	**0.9346**									**0.9347**	**0.0002**	**0.9346**	**0.9348**	**0.939 max.**
ASTM D6693	Tensile Properties:															
Type IV	*Test Specimens: Type IV, Width of narrow section:0.25in, Length of narrow section:1.3in, Width Overall:0.75in, Length Overall: 4.5in Conditioning: Conducted test in standard laboratory atmosphere of 23+/-2 °C (73.4+/-3.6 °F), and 50+/-5% relative humidity. Rate of Separation: 2"/min*															
	Tensile Strength at Break (lbs/ in.- width)															
	MD	**256**	**239**	**254**	**238**	**251**						**248**	**8**	**238**	**256**	**120 min.**
	TD	**285**	**288**	**280**	**281**	**284**						**284**	**3**	**280**	**288**	
	Elongation at Break (percent, %)					*Gauge Length = 2.0 in.*										
	MD	**500**	**504**	**498**	**503**	**528**						**507**	**12**	**498**	**528**	**250 min.**
	TD	**603**	**605**	**610**	**605**	**605**						**606**	**3**	**603**	**610**	
ASTM D4218	Carbon Content															
	Apparatus: Muffle Furnace															
		2.30	**2.31**									**2.31**	**0.01**	**2.30**	**2.31**	**2 - 3**

(End of Table 2)

By accepting the data and results presented on this report, the Client agrees to limit the liability of TRI Environmental, Inc. from Client and all other parties for claims on issues, due to the use of this data, to the cost for the respective tests presented in this report; and the Client agrees to indemnify and hold harmless TRI Environmental, Inc. from and against all liabilities in excess of the aforementioned limit.

LEGENDS:
MD - MACHINE DIRECTION
TD- TRANSVERSE DIRECTION

TABLE 3.

MATERIAL PROPERTIES

CLIENT: Newfields

PROJECT: CC&V VLF2 Phase 2B

Date Received: **12/17/2019**
Date Reported: **12/26/2019**
Client Sample ID: **R#FND0047820005 L#DKK810710**
Material Description: **80mil LLDPE Microspike Geomembrane**

QC'd By: Maria Espitia
TRI Job No.: **G192083**
TRI Control No.: **146017**

		SPECIMENS														Proj.
		1	2	3	4	5	6	7	8	9	10	Avg.	Std. Dev.	Min	Max	Specs.
METHOD	**DESCRIPTION**															
ASTM D5994	Thickness (mils)															
	Apparatus: Dead-weight dial micrometer with gauge points tapered at an angle of 60 ^{o} +/- 2 ^{o} to the horizontal with the tip rounded to a radius of 0.8+/-0.1 mm(0.031+/-0.004 in), with a specified force of 0.56+/-0.05 N (2+/-0.2 oz) Loading Time: 5 sec Specimen Size: 4" x 4"															68 min. 76 MARV
		82	81	81	81	82	81	80	84	81	80	81	1	80	84	80 nominal
ASTM D792	Specific Gravity (23/ 23^{o}C)															
Method A		0.9356	0.9355									0.9355	0.0001	0.9355	0.9356	0.939 max.
ASTM D6693	Tensile Properties:															
Type IV	*Test Specimens: Type IV, Width of narrow section:0.25in, Length of narrow section:1.3in, Width Overall:0.75in, Length Overall: 4.5in Conditioning: Conducted test in standard laboratory atmosphere of 23+/-2 ^{0}C (73.4+/-3.6 ^{0}F), and 50+/-5% relative humidity. Rate of Separation: 2"/min*															
	Tensile Strength at Break (lbs/ in.- width)															
	MD	261	257	268	258	243						258	9	243	268	120 min.
	TD	250	291	270	275	283						274	15	250	291	
	Elongation at Break (percent, %)					*Gauge Length = 2.0 in.*										
	MD	496	484	522	472	517						498	21	472	522	250 min.
	TD	566	620	619	602	597						601	22	566	620	
ASTM D4218	Carbon Content															
	Apparatus: Muffle Furnace															
		2.42	2.38									2.40	0.03	2.38	2.42	2 - 3

(End of Table 3)

By accepting the data and results presented on this report, the Client agrees to limit the liability of TRI Environmental, Inc. from Client and all other parties for claims on issues, due to the use of this data, to the cost for the respective tests presented in this report; and the Client agrees to indemnify and hold harmless TRI Environmental, Inc. from and against all liabilities in excess of the aforementioned limit.

LEGENDS:
MD - MACHINE DIRECTION
TD- TRANSVERSE DIRECTION

December 26, 2019

GAI-LAP
Initial: CVZ #:0.13
DATE: 12/20/2019

Nikoliya Boyanich
NewFields
9400 Station Street, Suite 300
Lone Tree, CO 80124

Re: FINAL LABORATORY TEST REPORT

Dear Ms. Boyanich:

Thank you for consulting TRI California for your material testing needs.

Enclosed is the ***final*** laboratory report for the Conformance testing of six (6) 80 mil LLDPE Microspike Geomembrane samples.

PROJECT NAME: CC&V VLF2 Phase 2B DATE REPORTED: **December 26, 2019**

REFERENCE TRI JOB NO.: G192088

DATE RECEIVED: December 18, 2019

SAMPLED BY: TRI-CA at AGRU,NV

SAMPLE IDENTIFICATIONS:

SAMPLE ID	*TRI CONTROL NUMBER*
R# FNB0047810145 L#DKK810700	146047
R# FNB0047810160 L#DKK810700	146048
R# FNB0047810175 L#DKK810700	146049
R# FND0047820022 L#DKK810710	146050
R# FND0047820037 L#DKK810710	146051
R# FND0047820052 L#DKK810710	146052

TESTS REQUIRED / PERFORMED:

TEST METHOD	*DESCRIPTION*
1. ASTM D5994	Thickness
2. ASTM D6693	Tensile Properties
3. ASTM D792	Specific Gravity
4. ASTM D4218	Carbon Content Muffle

TEST RESULTS: The test results are summarized in the attached Tables 1 to 6.

Note: The general conditioning and testing of the material samples identified in this report were performed within the range of the laboratory environmental conditions; i.e., 20-24°C and 45-65% RH. Otherwise, the actual environmental conditions are indicated in the respective test method reported.

Respectfully,

TRI Environmental, Inc. - California

Maria Espitia
Quality Assurance

Cora Queja
TRI-CA Director

Signatures are on file

It shall be noted that the samples tested are believed to be true representatives of the material produced under the designation herein stated. In addition, the attached laboratory tests results are considered indicative only of the quality of samples/specimens that were actually tested. The appropriate test methods hereby employed are based on the current and accepted industry practices. TRI neither accepts responsibility for nor makes claims to the intended final use and purpose of the material. The test data and all associated project information shall be held confidential and not to be reproduced and/or disclosed to other parties except in full and with prior written approval from pertinent entity duly authorized by the respective client or from the client itself. It is our policy to keep physical records of each job for two (2) years commencing from the date of receipt of the samples and keep its corresponding electronic file for seven (7) years. ***Retained conformance samples are disposed of after one (1) month.*** On the other hand, should you need us to keep them at a longer period, please advise us in writing.

7 Pages Total *(including this sheet)*

TABLE 1.

MATERIAL PROPERTIES

CLIENT: Newfields

PROJECT: CC&V VLF2 Phase 2B

Date Received: **12/18/2019**
Date Reported: **12/26/2019**
Client Sample ID: **R#FNB0047810145 L#DKK810700**
Material Description: **80mil LLDPE Microspike Geomembrane**

QC'd By: Maria Espitia
TRI Job No.: **G192088**
TRI Control No.: **146047**

		SPECIMENS														Proj.
		1	2	3	4	5	6	7	8	9	10	Avg.	Std. Dev.	Min	Max	Specs.
METHOD	**DESCRIPTION**															
ASTM D5994	Thickness (mils)															
	Apparatus: Dead-weight dial micrometer with gauge points tapered at an angle of 60 ^{o} +/- 2 ^{o} to the horizontal with the tip rounded to a radius of 0.8+/-0.1 mm(0.031+/-0.004 in), with a specified force of 0.56+/-0.05 N (2+/-0.2 oz) Loading Time: 5 sec Specimen Size: 4" x 4"															68 min. 76 MARV
		82	**83**	**84**	**82**	**80**	**81**	**80**	**82**	**80**	**81**	**82**	**1**	**80**	**84**	**80 nominal**
ASTM D792	Specific Gravity (23/ 23^{o}C)															
Method A		**0.9343**	**0.9342**									**0.9342**	**0.0000**	**0.9342**	**0.9343**	**0.939 max.**
ASTM D6693	Tensile Properties:															
Type IV	*Test Specimens: Type IV, Width of narrow section:0.25in, Length of narrow section:1.3in, Width Overall:0.75in, Length Overall: 4.5in Conditioning: Conducted test in standard laboratory atmosphere of 23+/-2 ^{0}C (73.4+/-3.6 ^{0}F), and 50+/-5% relative humidity. Rate of Separation: 2"/min*															
	Tensile Strength at Break (lbs/ in.- width)															
	MD	**262**	**276**	**217**	**255**	**234**						**249**	**23**	**217**	**276**	**120 min.**
	TD	**285**	**281**	**283**	**292**	**276**						**283**	**6**	**276**	**292**	
	Elongation at Break (percent, %)					*Gauge Length = 2.0 in.*										
	MD	**511**	**528**	**442**	**489**	**518**						**498**	**34**	**442**	**528**	**250 min.**
	TD	**636**	**629**	**639**	**659**	**601**						**633**	**21**	**601**	**659**	
ASTM D4218	Carbon Content															
	Apparatus: Muffle Furnace															
		2.33	**2.37**									**2.35**	**0.03**	**2.33**	**2.37**	**2 - 3**

(End of Table 1)

By accepting the data and results presented on this report, the Client agrees to limit the liability of TRI Environmental, Inc. from Client and all other parties for claims on issues, due to the use of this data, to the cost for the respective tests presented in this report; and the Client agrees to indemnify and hold harmless TRI Environmental, Inc. from and against all liabilities in excess of the aforementioned limit.

LEGENDS:
MD - MACHINE DIRECTION
TD- TRANSVERSE DIRECTION

TABLE 2.

MATERIAL PROPERTIES

CLIENT: Newfields

PROJECT: CC&V VLF2 Phase 2B

Date Received: **12/18/2019**
Date Reported: **12/26/2019**
Client Sample ID: **R#FNB0047810160 L#DKK810700**
Material Description: **80mil LLDPE Microspike Geomembrane**

QC'd By: Maria Espitia
TRI Job No.: **G192088**
TRI Control No.: **146048**

		SPECIMENS														Proj.
		1	2	3	4	5	6	7	8	9	10	Avg.	Std. Dev.	Min	Max	Specs.
METHOD	**DESCRIPTION**															
ASTM D5994	Thickness (mils)															
	Apparatus: Dead-weight dial micrometer with gauge points tapered at an angle of 60 ° +/- 2 ° to the horizontal with the tip rounded to a radius of 0.8+/-0.1 mm(0.031+/-0.004 in), with a specified force of 0.56+/-0.05 N (2+/-0.2 oz)															**68 min.**
	Loading Time: 5 sec Specimen Size: 4" x 4"															**76 MARV**
		80	**82**	**81**	**82**	**81**	**82**	**81**	**80**	**80**	**85**	**81**	**1**	**80**	**85**	**80 nominal**
ASTM D792	Specific Gravity (23/ 23°C)															
Method A		**0.9383**	**0.9383**									**0.9383**	**0.0000**	**0.9383**	**0.9383**	**0.939 max.**
ASTM D6693	Tensile Properties:															
Type IV	*Test Specimens: Type IV, Width of narrow section:0.25in, Length of narrow section:1.3in, Width Overall:0.75in, Length Overall: 4.5in Conditioning: Conducted test in standard laboratory atmosphere of 23+/-2 °C (73.4+/-3.6 °F), and 50+/-5% relative humidity. Rate of Separation: 2"/min*															
	Tensile Strength at Break (lbs/ in.- width)															
	MD	**263**	**235**	**210**	**216**	**245**						**234**	**22**	**210**	**263**	**120 min.**
	TD	**282**	**304**	**276**	**127**	**290**						**256**	**73**	**127**	**304**	
	Elongation at Break (percent, %)					*Gauge Length = 2.0 in.*										
	MD	**507**	**473**	**438**	**482**	**517**						**483**	**31**	**438**	**517**	**250 min.**
	TD	**672**	**647**	**616**	**595**	**644**						**635**	**30**	**595**	**672**	
ASTM D4218	Carbon Content															
	Apparatus: Muffle Furnace															
		2.36	**2.41**									**2.38**	**0.03**	**2.36**	**2.41**	**2 - 3**

(End of Table 2)

By accepting the data and results presented on this report, the Client agrees to limit the liability of TRI Environmental, Inc. from Client and all other parties for claims on issues, due to the use of this data, to the cost for the respective tests presented in this report; and the Client agrees to indemnify and hold harmless TRI Environmental, Inc. from and against all liabilities in excess of the aforementioned limit.

LEGENDS:
MD - MACHINE DIRECTION
TD- TRANSVERSE DIRECTION

1160 North Gilbert Street, Anaheim, CA 92801, www.precisionlabs.net
Precision Geosynthetic Laboratories International dba TRI Environmental, Inc.

TABLE 3.

MATERIAL PROPERTIES

CLIENT: Newfields

PROJECT: CC&V VLF2 Phase 2B

Date Received: **12/18/2019**
Date Reported: **12/26/2019**
Client Sample ID: **R#FNB0047810175 L#DKK810700**
Material Description: **80mil LLDPE Microspike Geomembrane**

QC'd By: Maria Espitia
TRI Job No.: **G192088**
TRI Control No.: **146049**

		SPECIMENS														
		1	2	3	4	5	6	7	8	9	10	Avg.	Std. Dev.	Min	Max	Proj. Specs.
METHOD	**DESCRIPTION**															
ASTM D5994	Thickness (mils)															
	Apparatus: Dead-weight dial micrometer with gauge points tapered at an angle of 60 ^{o} +/- 2 ^{o} to the horizontal with the tip rounded to a radius of 0.8+/-0.1 mm(0.031+/-0.004 in), with a specified force of 0.56+/-0.05 N (2+/-0.2 oz) Loading Time: 5 sec Specimen Size: 4" x 4"															68 min. 76 MARV
		81	**80**	**80**	**82**	**83**	**81**	**80**	**81**	**82**	**81**	**81**	**1**	**80**	**83**	**80 nominal**
ASTM D792	Specific Gravity (23/ 23^{o}C)															
Method A		**0.9371**	**0.9371**									**0.9371**	**0.0000**	**0.9371**	**0.9371**	**0.939 max.**
ASTM D6693	Tensile Properties:															
Type IV	*Test Specimens: Type IV, Width of narrow section:0.25in, Length of narrow section:1.3in, Width Overall:0.75in, Length Overall: 4.5in Conditioning: Conducted test in standard laboratory atmosphere of 23+/-2 ^{0}C (73.4+/-3.6 ^{0}F), and 50+/-5% relative humidity. Rate of Separation: 2"/min*															
	Tensile Strength at Break (lbs/ in.- width)															
	MD	**241**	**300**	**262**	**278**	**242**						**264**	**25**	**241**	**300**	**120 min.**
	TD	**269**	**279**	**274**	**268**	**281**						**274**	**6**	**268**	**281**	
	Elongation at Break (percent, %)					*Gauge Length = 2.0 in.*										
	MD	**492**	**551**	**513**	**510**	**503**						**514**	**22**	**492**	**551**	**250 min.**
	TD	**606**	**627**	**641**	**612**	**674**						**632**	**27**	**606**	**674**	
ASTM D4218	Carbon Content															
	Apparatus: Muffle Furnace															
		2.36	**2.32**									**2.34**	**0.03**	**2.32**	**2.36**	**2 - 3**

(End of Table 3)

By accepting the data and results presented on this report, the Client agrees to limit the liability of TRI Environmental, Inc. from Client and all other parties for claims on issues, due to the use of this data, to the cost for the respective tests presented in this report; and the Client agrees to indemnify and hold harmless TRI Environmental, Inc. from and against all liabilities in excess of the aforementioned limit.

LEGENDS:
MD - MACHINE DIRECTION
TD- TRANSVERSE DIRECTION

TABLE 4.

MATERIAL PROPERTIES

CLIENT: Newfields

PROJECT: CC&V VLF2 Phase 2B

Date Received: **12/18/2019**
Date Reported: **12/26/2019**
Client Sample ID: **R#FND0047820022 L#DKK810710**
Material Description: **80mil LLDPE Microspike Geomembrane**

QC'd By: Maria Espitia
TRI Job No.: **G192088**
TRI Control No.: **146050**

		SPECIMENS														
		1	2	3	4	5	6	7	8	9	10	Avg.	Std. Dev.	Min	Max	Proj. Specs.
METHOD	**DESCRIPTION**															
ASTM D5994	Thickness (mils)															
	Apparatus: Dead-weight dial micrometer with gauge points tapered at an angle of 60 ^{o} +/- 2 ^{o} to the horizontal with the tip rounded to a radius of 0.8+/-0.1 mm(0.031+/-0.004 in), with a specified force of 0.56+/-0.05 N (2+/-0.2 oz) Loading Time: 5 sec Specimen Size: 4" x 4"															**68 min. 76 MARV**
		81	**80**	**83**	**81**	**84**	**81**	**80**	**83**	**81**	**83**	**82**	**1**	**80**	**84**	**80 nominal**
ASTM D792	Specific Gravity (23/ 23^{o}C)															
Method A		**0.9372**	**0.9371**									**0.9371**	**0.0000**	**0.9371**	**0.9372**	**0.939 max.**
ASTM D6693	Tensile Properties:															
Type IV	*Test Specimens: Type IV, Width of narrow section:0.25in, Length of narrow section:1.3in, Width Overall:0.75in, Length Overall: 4.5in Conditioning: Conducted test in standard laboratory atmosphere of 23+/-2 ^{0}C (73.4+/-3.6 ^{0}F), and 50+/-5% relative humidity. Rate of Separation: 2"/min*															
	Tensile Strength at Break (lbs/ in.- width)															
	MD	**256**	**208**	**240**	**222**	**232**						**232**	**18**	**208**	**256**	**120 min.**
	TD	**279**	**263**	**280**	**300**	**264**						**277**	**15**	**263**	**300**	
	Elongation at Break (percent, %) *Gauge Length = 2.0 in.*															
	MD	**537**	**473**	**512**	**485**	**483**						**498**	**26**	**473**	**537**	**250 min.**
	TD	**650**	**613**	**619**	**666**	**608**						**631**	**25**	**608**	**666**	
ASTM D4218	Carbon Content															
	Apparatus: Muffle Furnace															
		2.48	**2.49**									**2.48**	**0.01**	**2.48**	**2.49**	**2 - 3**

(End of Table 4)

By accepting the data and results presented on this report, the Client agrees to limit the liability of TRI Environmental, Inc. from Client and all other parties for claims on issues, due to the use of this data, to the cost for the respective tests presented in this report; and the Client agrees to indemnify and hold harmless TRI Environmental, Inc. from and against all liabilities in excess of the aforementioned limit.

LEGENDS:
MD - MACHINE DIRECTION
TD- TRANSVERSE DIRECTION

TABLE 5.

MATERIAL PROPERTIES

CLIENT: Newfields

PROJECT: CC&V VLF2 Phase 2B

Date Received: **12/18/2019**
Date Reported: **12/26/2019**
Client Sample ID: **R#FND0047820037 L#DKK810710**
Material Description: **80mil LLDPE Microspike Geomembrane**

QC'd By: Maria Espitia
TRI Job No.: **G192088**
TRI Control No.: **146051**

		SPECIMENS														Proj.
		1	2	3	4	5	6	7	8	9	10	Avg.	Std. Dev.	Min	Max	Specs.
METHOD	**DESCRIPTION**															
ASTM D5994	Thickness (mils)															
	Apparatus: Dead-weight dial micrometer with gauge points tapered at an angle of 60 ^{o} +/- 2 ^{o} to the horizontal with the tip rounded to a radius of 0.8+/-0.1 mm(0.031+/-0.004 in), with a specified force of 0.56+/-0.05 N (2+/-0.2 oz) Loading Time: 5 sec Specimen Size: 4" x 4"															68 min. 76 MARV
		85	80	82	81	81	81	82	80	80	82	82	2	80	85	80 nominal
ASTM D792	Specific Gravity (23/ 23^{o}C)															
Method A		0.9348	0.9350									0.9349	0.0002	0.9348	0.9350	0.939 max.
ASTM D6693	Tensile Properties:															
Type IV	*Test Specimens: Type IV, Width of narrow section:0.25in, Length of narrow section:1.3in, Width Overall:0.75in, Length Overall: 4.5in Conditioning: Conducted test in standard laboratory atmosphere of 23+/-2 ^{0}C (73.4+/-3.6 ^{0}F), and 50+/-5% relative humidity. Rate of Separation: 2"/min*															
	Tensile Strength at Break (lbs/ in.- width)															
	MD	235	241	229	264	236						241	14	229	264	120 min.
	TD	259	270	271	277	259						267	8	259	277	
	Elongation at Break (percent, %)					*Gauge Length = 2.0 in.*										
	MD	493	519	496	528	503						508	15	493	528	250 min.
	TD	596	627	619	635	611						618	15	596	635	
ASTM D4218	Carbon Content															
	Apparatus: Muffle Furnace															
		2.33	2.30									2.32	0.02	2.30	2.33	2 - 3

(End of Table 5)

By accepting the data and results presented on this report, the Client agrees to limit the liability of TRI Environmental, Inc. from Client and all other parties for claims on issues, due to the use of this data, to the cost for the respective tests presented in this report; and the Client agrees to indemnify and hold harmless TRI Environmental, Inc. from and against all liabilities in excess of the aforementioned limit.

LEGENDS:
MD - MACHINE DIRECTION
TD- TRANSVERSE DIRECTION

TABLE 6.

MATERIAL PROPERTIES

CLIENT: Newfields

PROJECT: CC&V VLF2 Phase 2B

Date Received: **12/18/2019**
Date Reported: **12/26/2019**
Client Sample ID: **R#FND0047820052 L#DKK810710**
Material Description: **80mil LLDPE Microspike Geomembrane**

QC'd By: Maria Espitia
TRI Job No.: **G192088**
TRI Control No.: **146052**

		SPECIMENS														Proj.
		1	2	3	4	5	6	7	8	9	10	Avg.	Std. Dev.	Min	Max	Specs.
METHOD	**DESCRIPTION**															
ASTM D5994	Thickness (mils)															
	Apparatus: Dead-weight dial micrometer with gauge points tapered at an angle of 60 ° +/- 2 ° to the horizontal with the tip rounded to a radius of 0.8+/-0.1 mm(0.031+/-0.004 in), with a specified force of 0.56+/-0.05 N (2+/-0.2 oz) Loading Time: 5 sec Specimen Size: 4" x 4"															68 min. 76 MARV
		81	81	83	81	81	84	82	80	82	80	82	1	80	84	80 nominal
ASTM D792	Specific Gravity (23/ 23°C)															
Method A		0.9345	0.9351									0.9348	0.0004	0.9345	0.9351	0.939 max.
ASTM D6693	Tensile Properties:															
Type IV	*Test Specimens: Type IV, Width of narrow section:0.25in, Length of narrow section:1.3in, Width Overall:0.75in, Length Overall: 4.5in Conditioning: Conducted test in standard laboratory atmosphere of 23+/-2 °C (73.4+/-3.6 °F), and 50+/-5% relative humidity. Rate of Separation: 2"/min*															
	Tensile Strength at Break (lbs/ in.- width)															
	MD	228	276	229	264	302						260	32	228	302	120 min.
	TD	285	264	271	286	309						283	17	264	309	
	Elongation at Break (percent, %)					*Gauge Length = 2.0 in.*										
	MD	491	526	478	540	569						521	37	478	569	250 min.
	TD	646	591	587	623	676						625	38	587	676	
ASTM D4218	Carbon Content															
	Apparatus: Muffle Furnace															
		2.49	2.45									2.47	0.03	2.45	2.49	2 - 3

(End of Table 6)

By accepting the data and results presented on this report, the Client agrees to limit the liability of TRI Environmental, Inc. from Client and all other parties for claims on issues, due to the use of this data, to the cost for the respective tests presented in this report; and the Client agrees to indemnify and hold harmless TRI Environmental, Inc. from and against all liabilities in excess of the aforementioned limit.

LEGENDS:
MD - MACHINE DIRECTION
TD- TRANSVERSE DIRECTION

January 10, 2020

GAI-LAP
Initial: CVZ #:0.13
DATE: 01/10/2020

Nikoliya Boyanich
NewFields
9400 Station Street, Suite 300
Lone Tree, CO 80124

Re: FINAL LABORATORY TEST REPORT

Dear Ms. Boyanich:

Thank you for consulting TRI California for your material testing needs.

Enclosed is the ***final*** laboratory report for the Conformance testing of three (3) 80 mil LLDPE Microspike Geomembrane samples.

PROJECT NAME: CC&V VLF2 Phase 2B DATE REPORTED: **January 10, 2020**

REFERENCE TRI JOB NO.: G192093

DATE RECEIVED: December 19, 2019

SAMPLED BY: TRI-CA at AGRU, NV

SAMPLE IDENTIFICATIONS:

SAMPLE ID	*TRI CONTROL NUMBER*
R# FNB0047810190 Lot DKJ810710	146076
R# FND0047820067 Lot DKJ810710	146078
R# FND0047820082 Lot DKJ810710	146079

TESTS REQUIRED / PERFORMED:

TEST METHOD	*DESCRIPTION*
1. ASTM D5994	Thickness
2. ASTM D6693	Tensile Properties
3. ASTM D792	Specific Gravity
4. ASTM D4218	Carbon Content Muffle

TEST RESULTS: The test results are summarized in the attached Tables 1 to 3.

Note: The general conditioning and testing of the material samples identified in this report were performed within the range of the laboratory environmental conditions; i.e., 20-24°C and 45-65% RH. Otherwise, the actual environmental conditions are indicated in the respective test method reported.

Respectfully,

TRI Environmental, Inc. - California

Maria Espitia — Quality Assurance

Cora Queja — TRI-CA Director

Signatures are on file

It shall be noted that the samples tested are believed to be true representatives of the material produced under the designation herein stated. In addition, the attached laboratory tests results are considered indicative only of the quality of samples/specimens that were actually tested. The appropriate test methods hereby employed are based on the current and accepted industry practices. TRI neither accepts responsibility for nor makes claims to the intended final use and purpose of the material. The test data and all associated project information shall be held confidential and not to be reproduced and/or disclosed to other parties except in full and with prior written approval from pertinent entity duly authorized by the respective client or from the client itself. It is our policy to keep physical records of each job for two (2) years commencing from the date of receipt of the samples and keep its corresponding electronic file for seven (7) years. ***Retained conformance samples are disposed of after one (1) month.*** On the other hand, should you need us to keep them at a longer period, please advise us in writing.

4 Pages Total *(including this sheet)*

TABLE 1.

MATERIAL PROPERTIES

CLIENT: Newfields

PROJECT: CC&V VLF2 Phase 2B

Date Received: **12/20/2019**
Date Reported: **1/10/2019**
Client Sample ID: **R# FNB0047810190 L# DKJ810710**
Material Description: **80mil LLDPE Microspike Geomembrane**

QC'd By: Maria Espitia
TRI Job No.: **G192093**
TRI Control No.: **146076**

		SPECIMENS														
		1	2	3	4	5	6	7	8	9	10	Avg.	Std. Dev.	Min	Max	Proj. Specs.
METHOD	**DESCRIPTION**															
ASTM D5994	Thickness (mils)															
	Apparatus: Dead-weight dial micrometer with gauge points tapered at an angle of 60° +/- 2° to the horizontal with the tip rounded to a radius of 0.8+/-0.1 mm(0.031+/-0.004 in), with a specified force of 0.56+/-0.05 N (2+/-0.2 oz) Loading Time: 5 sec Specimen Size: 4" x 4"														68 min. 76 MARV
		83	80	80	80	84	84	80	83	80	81	82	2	80	84	80 nominal
ASTM D792	Specific Gravity (23/ 23°C)															
Method A		0.9365	0.9366									0.9365	0.0001	0.9365	0.9366	0.939 max.
ASTM D6693	Tensile Properties:															
Type IV	*Test Specimens: Type IV, Width of narrow section:0.25in, Length of narrow section:1.3in, Width Overall:0.75in, Length Overall: 4.5in Conditioning: Conducted test in standard laboratory atmosphere of 23+/-2° C (73.4+/-3.6° F), and 50+/-5% relative humidity. Rate of Separation: 2"/min*															
	Tensile Strength at Break (lbs/ in.- width)															
	MD	247	250	232	237	237						241	8	232	250	120 min.
	TD	280	272	269	261	294						275	12	261	294	
	Elongation at Break (percent, %) *Gauge Length = 2.0 in.*															
	MD	518	521	486	509	500						507	14	486	521	250 min.
	TD	636	625	626	601	665						630	23	601	665	
ASTM D4218	Carbon Content															
	Apparatus: Muffle Furnace															
		2.44	2.35									2.39	0.06	2.35	2.44	2 - 3

(End of Table 1)

By accepting the data and results presented on this report, the Client agrees to limit the liability of TRI Environmental, Inc. from Client and all other parties for claims on issues, due to the use of this data, to the cost for the respective tests presented in this report; and the Client agrees to indemnify and hold harmless TRI Environmental, Inc. from and against all liabilities in excess of the aforementioned limit.

LEGENDS:
MD - MACHINE DIRECTION
TD- TRANSVERSE DIRECTION

TABLE 2.

MATERIAL PROPERTIES

CLIENT: Newfields

PROJECT: CC&V VLF2 Phase 2B

Date Received: **12/20/2019**
Date Reported: **1/10/2019**
Client Sample ID: **R# FND0047820067 L# DKJ810710**
Material Description: **80mil LLDPE Microspike Geomembrane**

QC'd By: Maria Espitia
TRI Job No.: **G192093**
TRI Control No.: **146078**

		SPECIMENS														
		1	2	3	4	5	6	7	8	9	10	Avg.	Std. Dev.	Min	Max	Proj. Specs.
METHOD	**DESCRIPTION**															
ASTM D5994	Thickness (mils)															
	Apparatus: Dead-weight dial micrometer with gauge points tapered at an angle of 60° +/- 2° to the horizontal with the tip rounded to a radius of 0.8+/-0.1 mm(0.031+/-0.004 in), with a specified force of 0.56+/-0.05 N (2+/-0.2 oz)															**68 min.**
	Loading Time: 5 sec Specimen Size: 4" x 4"															**76 MARV**
		81	**80**	**82**	**80**	**80**	**81**	**82**	**80**	**81**	**80**	**81**	**1**	**80**	**82**	**80 nominal**
ASTM D792	Specific Gravity (23/ 23°C)															
Method A		**0.9354**	**0.9355**									**0.9355**	**0.0001**	**0.9354**	**0.9355**	**0.939 max.**
ASTM D6693	Tensile Properties:															
Type IV	*Test Specimens: Type IV, Width of narrow section:0.25in, Length of narrow section:1.3in, Width Overall:0.75in, Length Overall: 4.5in Conditioning: Conducted test in standard laboratory atmosphere of 23+/-2° C (73.4+/-3.6° F), and 50+/-5% relative humidity. Rate of Separation: 2"/min*															
	Tensile Strength at Break (lbs/ in.- width)															
	MD	**248**	**228**	**250**	**269**	**255**						**250**	**15**	**228**	**269**	**120 min.**
	TD	**294**	**276**	**320**	**312**	**280**						**296**	**19**	**276**	**320**	
	Elongation at Break (percent, %) *Gauge Length = 2.0 in.*															
	MD	**514**	**498**	**506**	**522**	**523**						**513**	**10**	**498**	**523**	**250 min.**
	TD	**672**	**617**	**712**	**697**	**640**						**667**	**39**	**617**	**712**	
ASTM D4218	Carbon Content															
	Apparatus: Muffle Furnace															
		2.29	**2.40**									**2.34**	**0.07**	**2.29**	**2.40**	**2 - 3**

(End of Table 2)

By accepting the data and results presented on this report, the Client agrees to limit the liability of TRI Environmental, Inc. from Client and all other parties for claims on issues, due to the use of this data, to the cost for the respective tests presented in this report; and the Client agrees to indemnify and hold harmless TRI Environmental, Inc. from and against all liabilities in excess of the aforementioned limit.

LEGENDS:
MD - MACHINE DIRECTION
TD- TRANSVERSE DIRECTION

TABLE 3.

MATERIAL PROPERTIES

CLIENT: Newfields

PROJECT: CC&V VLF2 Phase 2B

Date Received: **12/20/2019**
Date Reported: **1/10/2019**
Client Sample ID: **R# FND0047820082 L# DKJ810710**
Material Description: **80mil LLDPE Microspike Geomembrane**

QC'd By: Maria Espitia
TRI Job No.: **G192093**
TRI Control No.: **146079**

		SPECIMENS														
		1	2	3	4	5	6	7	8	9	10	Avg.	Std. Dev.	Min	Max	Proj. Specs.
METHOD	**DESCRIPTION**															
ASTM D5994	Thickness (mils)															
	Apparatus: Dead-weight dial micrometer with gauge points tapered at an angle of 60° +/- 2° to the horizontal with the tip rounded to a radius of 0.8+/-0.1 mm(0.031+/-0.004 in), with a specified force of 0.56+/-0.05 N (2+/-0.2 oz)															**68 min.**
	Loading Time: 5 sec Specimen Size: 4" x 4"															**76 MARV**
		80	**81**	**81**	**82**	**80**	**81**	**80**	**80**	**81**	**80**	**81**	**1**	**80**	**82**	**80 nominal**
ASTM D792	Specific Gravity (23/ 23°C)															
Method A		**0.9382**	**0.9383**									**0.9382**	**0.0001**	**0.9382**	**0.9383**	**0.939 max.**
ASTM D6693	Tensile Properties:															
Type IV	*Test Specimens: Type IV, Width of narrow section:0.25in, Length of narrow section:1.3in, Width Overall:0.75in, Length Overall: 4.5in Conditioning: Conducted test in standard laboratory atmosphere of 23+/-2° C (73.4+/-3.6° F), and 50+/-5% relative humidity. Rate of Separation: 2"/min*															
	Tensile Strength at Break (lbs/ in.- width)															
	MD	**265**	**272**	**217**	**242**	**232**						**246**	**23**	**217**	**272**	**120 min.**
	TD	**296**	**284**	**286**	**270**	**272**						**282**	**11**	**270**	**296**	
	Elongation at Break (percent, %) *Gauge Length = 2.0 in.*															
	MD	**544**	**541**	**475**	**499**	**485**						**509**	**32**	**475**	**544**	**250 min.**
	TD	**668**	**673**	**668**	**622**	**636**						**653**	**23**	**622**	**673**	
ASTM D4218	Carbon Content															
	Apparatus: Muffle Furnace															
		2.37	**2.34**									**2.35**	**0.02**	**2.34**	**2.37**	**2 - 3**

(End of Table 3)

By accepting the data and results presented on this report, the Client agrees to limit the liability of TRI Environmental, Inc. from Client and all other parties for claims on issues, due to the use of this data, to the cost for the respective tests presented in this report; and the Client agrees to indemnify and hold harmless TRI Environmental, Inc. from and against all liabilities in excess of the aforementioned limit.

LEGENDS:
MD - MACHINE DIRECTION
TD- TRANSVERSE DIRECTION



APPENDIX K.2 – GEOGRID CONFORMANCE TESTING

November 21, 2019

Mail To:

Jay Janney
New Fields

email: jmoore@newfields.com

Bill To:

<= Same (Project # 475.0106.032)

Dear Mr. Janney:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs.
TRI is pleased to submit this final report of the laboratory testing for the sample(s) listed below.

Project:	**CC&V VLF 2 Phase 2B**
TRI Job Reference Number:	51625
Material(s) Tested:	Six, Tensar UX1800 Geogrid(s)
Test(s) Requested:	Mass/Unit Area (ASTM D 5261) Single Rib Tensile Properties (ASTM D 6637, Method A) Aperature Size (Calipers) Junction/Node Strength (GRI GG2)

If you have any questions or require any additional information, please call us at 1-800-880-8378

Sincerely,

Mansukh Patel
Laboratory Manager
Geosynthetic Services Division

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

GEOGRID TEST RESULTS
TRI Client: New Fields
Project: CC&V VLF 2 Phase 2B

Material: Tensar UX1800 Geogrid
Sample Identification: Lot 121472 Roll 27
TRI Log #: 51625

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.	PROJ. SPEC.
	1	2	3	4	5	6	7	8	9	10			
Mass/Unit Area (ASTM D 5261)													
Mass/unit area (oz/sq.yd)	31.07	31.53	31.35	30.77	31.53	31.42	31.16	31.18	31.34	31.44	**31.28**	0.24	28 min
Aperature Size (Calipers)													
MD - Aperature Size (in)	0.45	0.54	0.54	0.62	0.55	0.56	0.58	0.61	0.64	0.65	**0.57**	0.06	
TD - Aperature Size (in)	14.0	14.0	14.0	14.1	14.1	13.9	14.0	14.0	14.0	13.9	**14.01**	0.05	
Single Rib Tensile Properties (ASTM D 6637, Method A)													
Number of Ribs per foot:	14.4												
Maximum Strength (lbs)	1032	1063.6	1077.9	1070.9	1064.8						**1062**	18	
Maximum Strength (lbs/ft)	14905	15363	15570	15469	15381						**15337**	255	14300 min
Maximum Strength (kN/m)	218	224	227	226	225						**224**	4	
Strength @ 2% Strain (lbs)	288	295	298	293	294						**294**	3	
Strength @ 2% Strain (lbs/ft)	4167	4255	4306	4233	4250						**4242**	50	
Strength @ 2% Strain (kN/m)	60.8	62.1	62.9	61.8	62.0						**61.9**	0.7	
Strength @ 5% Strain (lbs)	514	526	530	522	523						**523**	6	
Strength @ 5% Strain (lbs/ft)	7427	7591	7657	7540	7555						**7554**	84	6500 min
Strength @ 5% Strain (kN/m)	108	111	112	110	110						**110**	1	
Strength @ 10% Strain (lbs)	941	949	962	947	944						**949**	8	
Strength @ 10% Strain (lbs/ft)	13595	13712	13899	13681	13642						**13706**	117	
Strength @ 10% Strain (kN/m)	198	200	203	200	199						**200**	2	
Break Elongation (%)	12.8	13.7	13.3	13.0	13.5						**13.3**	0.4	
Junction/Node Strength (D 7737)													
MD - Number of Ribs per foot:	14.4												
MD Maximum Junction Strength (lbsf)	1124	1125	1088	1127	1128	1127	1126	1125	1131	1122	**1122**	12	
MD Maximum Junction Strength (lbs/ft)	16230	16253	15720	16275	16298	16273	16264	16255	16334	16209	**16211**	176	12340 min
MD Maximum Junction Strength (kN/m)	237	237	230	238	238	238	237	237	238	237	**237**	3	
								MD Junction Efficiency (%)			**106**		

MD Machine Direction TD Transverse Direction

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

GEOGRID TEST RESULTS
TRI Client: New Fields
Project: CC&V VLF 2 Phase 2B

Material: Tensar UX1800 Geogrid
Sample Identification: Lot 121473 Roll 36
TRI Log #: 51625

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.	PROJ. SPEC.
	1	2	3	4	5	6	7	8	9	10			
Mass/Unit Area (ASTM D 5261)													
Mass/unit area (oz/sq.yd)	32.13	32.24	32.28	32.07	32.37	32.38	32.66	32.53	32.08	32.22	**32.30**	0.19	28 min
Aperature Size (Calipers)													
MD - Aperature Size (in)	0.50	0.56	0.56	0.57	0.58	0.68	0.67	0.68	0.63	0.61	**0.60**	0.06	
TD - Aperature Size (in)	13.5	13.7	13.7	13.6	13.6	13.7	13.7	13.7	13.7	13.7	**13.67**	0.06	
Single Rib Tensile Properties (ASTM D 6637, Method A)													
Number of Ribs per foot:	14.8												
Maximum Strength (lbs)	1030	1061	1055	1060	1046						**1050**	13	
Maximum Strength (lbs/ft)	15195	15649	15562	15638	15430						**15495**	189	14300 min
Maximum Strength (kN/m)	222	228	227	228	225						**226**	2.8	
Strength @ 2% Strain (lbs)	295	297	297	296	295						**296**	1	
Strength @ 2% Strain (lbs/ft)	4356	4381	4384	4366	4355						**4368**	14	
Strength @ 2% Strain (kN/m)	63.6	64.0	64.0	63.7	63.6						**63.8**	0.20	
Strength @ 5% Strain (lbs)	517	518	516	514	512						**515**	2	
Strength @ 5% Strain (lbs/ft)	7622	7638	7615	7582	7549						**7601**	36	6500 min
Strength @ 5% Strain (kN/m)	111	112	111	111	110						**111**	0.5	
Strength @ 10% Strain (lbs)	926	922	926	922	917						**923**	4	
Strength @ 10% Strain (lbs/ft)	13664	13597	13661	13596	13528						**13609**	56	
Strength @ 10% Strain (kN/m)	199	199	199	198	198						**199**	0.8	
Break Elongation (%)	11.7	13.2	13.0	13.1	13.8						**13.0**	0.8	
Junction/Node Strength (D 7737)													
MD - Number of Ribs per foot:	14.8												
MD Maximum Junction Strength (lbsf)	1074	1009	1064	1074	1068	1075	1107	1135	1115	1060	**1078**	35	
MD Maximum Junction Strength (lbs/ft)	15842	14890	15697	15851	15761	15860	16323	16744	16450	15642	**15906**	511	12340 min
MD Maximum Junction Strength (kN/m)	231	217	229	231	230	232	238	244	240	228	**232**	7	
								MD Junction Efficiency (%)			**103**		

MD Machine Direction TD Transverse Direction

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

GEOGRID TEST RESULTS
TRI Client: New Fields
Project: CC&V VLF 2 Phase 2B

Material: Tensar UX1800 Geogrid
Sample Identification: Lot 121475 Roll 29
TRI Log #: 51625

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.	PROJ. SPEC.
	1	2	3	4	5	6	7	8	9	10			
Mass/Unit Area (ASTM D 5261)													
Mass/unit area (oz/sq.yd)	35.62	35.11	35.20	36.05	36.98	35.73	35.50	35.78	35.98	36.32	**35.83**	0.55	28 min
Aperature Size (Calipers)													
MD - Aperature Size (in)	0.5	0.6	0.63	0.58	0.53	0.59	0.6	0.63	0.67	0.68	**0.60**	0.06	
TD - Aperature Size (in)	13.9	13.86	13.9	13.85	13.84	13.85	13.88	13.91	13.86	13.9	**13.88**	0.03	
Single Rib Tensile Properties (ASTM D 6637, Method A)													
Number of Ribs per foot:	14.9												
Maximum Strength (lbs)	1081	1079	1062	1013	1041						**1055**	29	
Maximum Strength (lbs/ft)	16063	16030	15781	15050	15467						**15678**	425	14300 min
Maximum Strength (kN/m)	235	234	230	220	226						**229**	6.2	
Strength @ 2% Strain (lbs)	299	301	299	287	292						**296**	6	
Strength @ 2% Strain (lbs/ft)	4443	4476	4447	4267	4332						**4393**	89	
Strength @ 2% Strain (kN/m)	64.9	65.3	64.9	62.3	63.2						**64.1**	1.30	
Strength @ 5% Strain (lbs)	524	528	524	504	509						**518**	10	
Strength @ 5% Strain (lbs/ft)	7792	7837	7790	7494	7560						**7695**	156	6500 min
Strength @ 5% Strain (kN/m)	114	114	114	109	110						**112**	2.3	
Strength @ 10% Strain (lbs)	941	947	942	916	913						**932**	16	
Strength @ 10% Strain (lbs/ft)	13986	14066	14002	13615	13567						**13847**	237	
Strength @ 10% Strain (kN/m)	204	205	204	199	198						**202**	3.5	
Break Elongation (%)	13.3	13.2	12.7	11.6	12.8						**12.7**	0.7	
Junction/Node Strength (D 7737)													
MD - Number of Ribs per foot:	14.9												
MD Maximum Junction Strength (lbsf)	1113	1039	1117	1121	1090	1046	1129	1127	1138	1090	**1101**	34	
MD Maximum Junction Strength (lbs/ft)	16532	15437	16597	16656	16198	15545	16770	16743	16909	16197	**16358**	512	12340 min
MD Maximum Junction Strength (kN/m)	241	225	242	243	236	227	245	244	247	236	**239**	7	
								MD Junction Efficiency (%)			**104**		

MD Machine Direction TD Transverse Direction

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

GEOGRID TEST RESULTS
TRI Client: New Fields
Project: CC&V VLF 2 Phase 2B

Material: Tensar UX1800 Geogrid
Sample Identification: Lot 121476 Roll 37
TRI Log #: 51625

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.	PROJ. SPEC.
	1	2	3	4	5	6	7	8	9	10			
Mass/Unit Area (ASTM D 5261)													
Mass/unit area (oz/sq.yd)	31.22	31.60	32.45	31.52	31.43	31.48	31.45	31.30	31.57	30.87	**31.49**	0.40	28 min
Aperature Size (Calipers)													
MD - Aperature Size (in)	0.63	0.61	0.61	0.63	0.66	0.64	0.62	0.54	0.53	0.57	**0.60**	0.04	
TD - Aperature Size (in)	13.51	13.48	13.53	13.6	13.68	13.49	13.58	13.54	13.63	13.68	**13.57**	0.07	
Single Rib Tensile Properties (ASTM D 6637, Method A)													
Number of Ribs per foot:	14.9												
Maximum Strength (lbs)	1054	998.4	1018.6	1001.6	998.4						**1014**	24	
Maximum Strength (lbs/ft)	15665	14833	15134	14881	14833						**15069**	356	14300 min
Maximum Strength (kN/m)	229	217	221	217	217						**220**	5.2	
Strength @ 2% Strain (lbs)	301	297	297	292	296						**296**	3	
Strength @ 2% Strain (lbs/ft)	4471	4409	4407	4335	4397						**4404**	48	
Strength @ 2% Strain (kN/m)	65.3	64.4	64.3	63.3	64.2						**64.3**	0.71	
Strength @ 5% Strain (lbs)	524	516	517	510	514						**516**	5	
Strength @ 5% Strain (lbs/ft)	7788	7670	7679	7576	7643						**7671**	77	6500 min
Strength @ 5% Strain (kN/m)	114	112	112	111	112						**112**	1.1	
Strength @ 10% Strain (lbs)	935	924	924	918	918						**924**	7	
Strength @ 10% Strain (lbs/ft)	13893	13729	13724	13639	13642						**13726**	103	
Strength @ 10% Strain (kN/m)	203	200	200	199	199						**200**	1.5	
Break Elongation (%)	12.8	11.9	12.3	11.4	11.2						**11.9**	0.6	
Junction/Node Strength (D 7737)													
MD - Number of Ribs per foot:	14.9												
MD Maximum Junction Strength (lbsf)	1061	1083	1089	1098	1084	1076	1064	1093	1087	1122	**1086**	17	
MD Maximum Junction Strength (lbs/ft)	15761	16087	16178	16319	16101	15990	15809	16235	16151	16665	**16130**	258	12340 min
MD Maximum Junction Strength (kN/m)	230	235	236	238	235	233	231	237	236	243	**235**	4	
								MD Junction Efficiency (%)			**107**		

MD Machine Direction TD Transverse Direction

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

GEOGRID TEST RESULTS
TRI Client: New Fields
Project: CC&V VLF 2 Phase 2B

Material: Tensar UX1800 Geogrid
Sample Identification: Lot 121477 Roll 8
TRI Log #: 51625

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.	PROJ. SPEC.
	1	2	3	4	5	6	7	8	9	10			
Mass/Unit Area (ASTM D 5261)													
Mass/unit area (oz/sq.yd)	31.77	31.55	31.94	31.48	31.19	31.13	30.86	30.95	31.02	30.67	**31.26**	0.42	28 min
Aperature Size (Calipers)													
MD - Aperature Size (in)	0.61	0.64	0.61	0.65	0.66	0.65	0.67	0.51	0.59	0.56	**0.62**	0.05	
TD - Aperature Size (in)	14.17	14.18	14.18	14.27	14.23	14.27	14.24	14.31	14.14	14.12	**14.21**	0.06	
Single Rib Tensile Properties (ASTM D 6637, Method A)													
Number of Ribs per foot:	14.7												
Maximum Strength (lbs)	1019	1048	1065	997	1060						**1038**	29	
Maximum Strength (lbs/ft)	14999	15421	15672	14667	15605						**15273**	428	14300 min
Maximum Strength (kN/m)	219	225	229	214	228						**223**	6.2	
Strength @ 2% Strain (lbs)	302	300	299	295	299						**299**	3	
Strength @ 2% Strain (lbs/ft)	4442	4411	4397	4340	4395						**4397**	37	
Strength @ 2% Strain (kN/m)	64.9	64.4	64.2	63.4	64.2						**64.2**	0.54	
Strength @ 5% Strain (lbs)	532	528	531	519	527						**527**	5	
Strength @ 5% Strain (lbs/ft)	7826	7777	7809	7637	7762						**7762**	74	6500 min
Strength @ 5% Strain (kN/m)	114	114	114	112	113						**113**	1.1	
Strength @ 10% Strain (lbs)	927	945	960	928	957						**943**	16	
Strength @ 10% Strain (lbs/ft)	13645	13902	14135	13662	14080						**13885**	228	
Strength @ 10% Strain (kN/m)	199	203	206	199	206						**203**	3.3	
Break Elongation (%)	11.9	12.1	12.4	11.0	12.4						**12.0**	0.6	
Junction/Node Strength (D 7737)													
MD - Number of Ribs per foot:	14.7												
MD Maximum Junction Strength (lbsf)	1108	1108	1127	1071	1104	1097	1094	1086	1057	1093	**1094**	20	
MD Maximum Junction Strength (lbs/ft)	16313	16303	16583	15756	16252	16143	16100	15977	15553	16082	**16106**	294	12340 min
MD Maximum Junction Strength (kN/m)	238	238	242	230	237	236	235	233	227	235	**235**	4	
									MD Junction Efficiency (%)		**105**		

MD Machine Direction TD Transverse Direction

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

GEOGRID TEST RESULTS
TRI Client: New Fields
Project: CC&V VLF 2 Phase 2B

Material: Tensar UX1800 Geogrid
Sample Identification: Lot 121478 Roll 11
TRI Log #: 51625

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.	PROJ. SPEC.
	1	2	3	4	5	6	7	8	9	10			
Mass/Unit Area (ASTM D 5261)													
Mass/unit area (oz/sq.yd)	31.33	31.38	30.95	31.57	32.03	32.16	31.65	31.69	31.60	31.85	**31.62**	0.35	28 min
Aperature Size (Calipers)													
MD - Aperature Size (in)	0.51	0.86	0.56	0.51	0.62	0.55	0.59	0.59	0.62	0.64	**0.61**	0.10	
TD - Aperature Size (in)	13.89	14	14.03	14.07	13.96	13.98	14.07	14.09	14.1	14.13	**14.03**	0.07	
Single Rib Tensile Properties (ASTM D 6637, Method A)													
Number of Ribs per foot:	14.7												
Maximum Strength (lbs)	1059	1006.9	1022	1048.3	1058.3						**1039**	23	
Maximum Strength (lbs/ft)	15591	14819	15041	15428	15576						**15291**	345	14300 min
Maximum Strength (kN/m)	228	216	220	225	227						**223**	5.0	
Strength @ 2% Strain (lbs)	294	299	289	296	294						**294**	4	
Strength @ 2% Strain (lbs/ft)	4327	4398	4255	4357	4333						**4334**	52	
Strength @ 2% Strain (kN/m)	63.2	64.2	62.1	63.6	63.3						**63.3**	0.76	
Strength @ 5% Strain (lbs)	521	530	512	523	523						**522**	6	
Strength @ 5% Strain (lbs/ft)	7666	7800	7533	7701	7691						**7678**	96	6500 min
Strength @ 5% Strain (kN/m)	112	114	110	112	112						**112**	1.4	
Strength @ 10% Strain (lbs)	941	957	934	950	951						**947**	9	
Strength @ 10% Strain (lbs/ft)	13855	14087	13743	13978	13998						**13932**	134	
Strength @ 10% Strain (kN/m)	202	206	201	204	204						**203**	2.0	
Break Elongation (%)	12.5	10.7	11.5	12.2	12.4						**11.9**	0.7	
Junction/Node Strength (D 7737)													
MD - Number of Ribs per foot:	14.7												
MD Maximum Junction Strength (lbsf)	1037	1073	1035	1063	1052	1009	1046	1005	1011	1084	**1042**	27	
MD Maximum Junction Strength (lbs/ft)	15260	15786	15239	15645	15481	14851	15398	14798	14881	15953	**15329**	402	12340 min
MD Maximum Junction Strength (kN/m)	223	230	222	228	226	217	225	216	217	233	**224**	6	
								MD Junction Efficiency (%)			**100**		

MD Machine Direction TD Transverse Direction

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

APPENDIX L – TENSIOMETER CERTIFICATIONS

Demtech Services, Inc.

Placerville, California, USA

CALIBRATION CERTIFICATE

Tensiometer Model: Pro-Tester T-0100

Device Calibrated: S-Type load cell
Range: 0 - 750 lbs. Tension
Model No: M2405-750#
Serial No: **686331**

Calibration Apparatus:
Pro-Cal unit, model TC-0100/A

A/D Module Model No: T-029
A/D Module Serial No: **3912686331**
Channel No: N/A

Dead Weight:	
W1	2
W2	152
W3	302

Reference Cell:	
R1	2
R2	152
R3	302

Indicator reading with no load: 0

Offset: **1.966512** Scale: **3.146753**

Applied Force lbs.	Cell Response:	Deviation Error:
2	2	0.00
52	52	0.00
102	102	0.00
152	152	0.00
202	202	0.00
252	252	0.00
302	302	0.00

Total Deviation Error (%): 0.00%

Temperature at time of calibration: 73 degrees F
Exitation Voltage: 5 V DC

This calibration conforms to the standards set by ASTM E4 and is traceable to NIST standards

Note: A/D Module and load cell above have been systems calibrated and are considered a matched pair. In general, calibrated A/D Modules and load cells are not interchangeable.

Calibration Technician: MH Date: 05/13/20

Signature: Matt Harrison

Demtech Services, Inc.

Placerville, California, USA

CALIBRATION CERTIFICATE

Tensiometer Model: Pro-Tester T-0100

Device Calibrated: S-Type load cell

Range: 0 - 750 lbs. Tension

Model No: M2405-750#

Serial No: **688139**

Calibration Apparatus:

Pro-Cal unit, model TC-0100/A

A/D Module Model No: T-029

A/D Module Serial No: **4612688139**

Channel No: N/A

Dead Weight:		Reference Cell.	
W1	2	R1	2
W2	152	R2	152
W3	302	R3	302

Indicator reading with no load: 0

Offset: **1.960214** Scale: **3.183084**

Applied Force lbs.	Cell Response:	Deviation Error:
2	2	0.00
52	52	0.00
102	102	0.00
152	152	0.00
202	202	0.00
252	252	0.00
302	302	0.00

Total Deviation Error (%): 0.00%

Temperature at time of calibration: 73 degrees F

Exitation Voltage: 5 V DC

This calibration conforms to the standards set by ASTM E4 and is traceable to NIST standards

Note: A/D Module and load cell above have been systems calibrated and are considered a matched pair. In general, calibrated A/D Modules and load cells are not interchangeable.

Calibration Technician: MH Date: 05/13/20

Signature: Matt Harrison

APPENDIX M – UNDERGROUND WORKING OBSERVATIONS

APPENDIX M.1 – UNDERGROUND WORKINGS SUMMARY TABLE

APPENDIX M.2 – UNDERGROUND WORKINGS LAYOUT

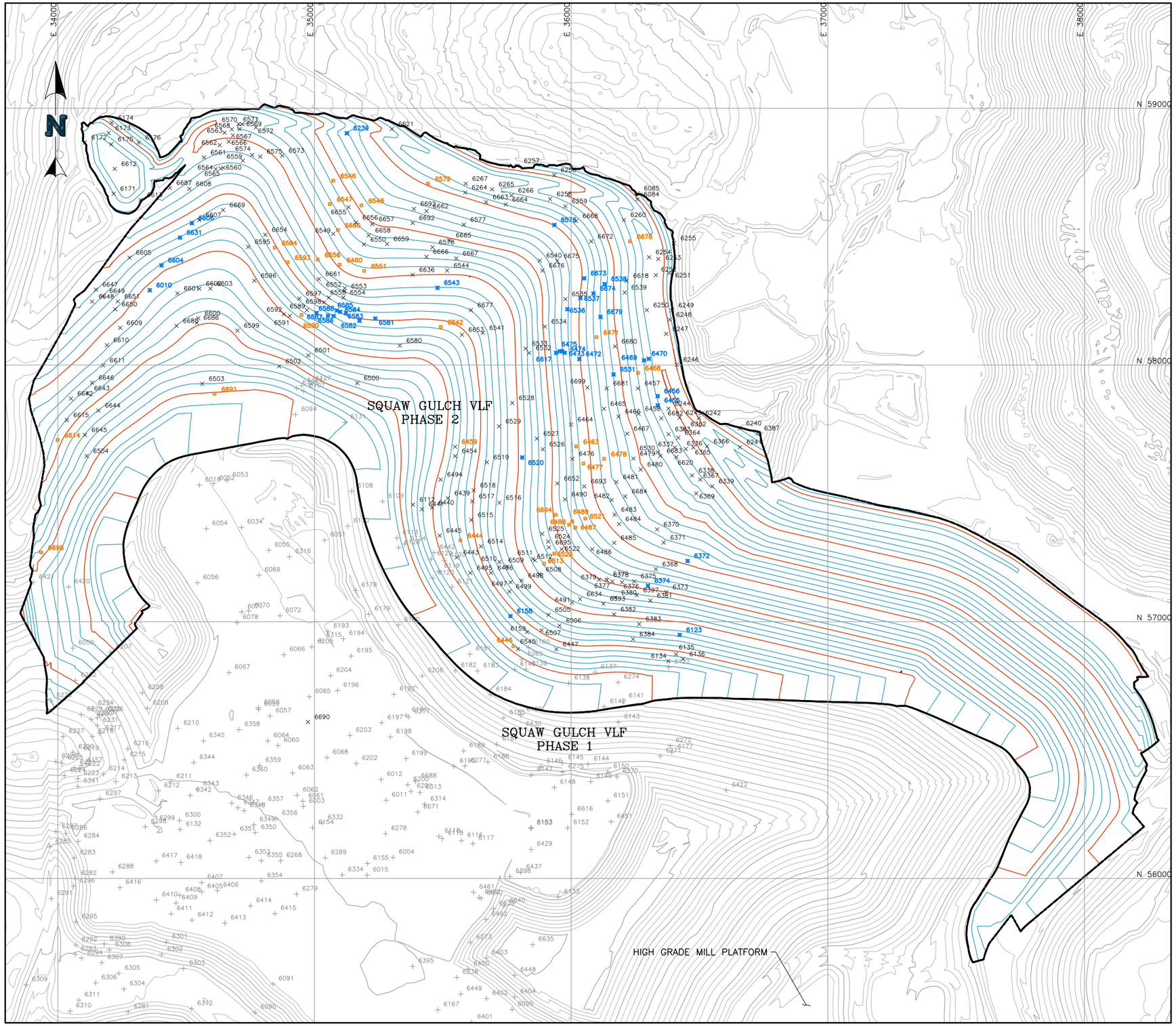
APPENDIX M.3 – UNDERGROUND WORKINGS REMEDIATION AS-BUILT FIGURES

APPENDIX M.1 – UNDERGROUND WORKINGS SUMMARY TABLE

Cripple Creek & Victor Gold Mining Company
Squaw Gulch Valley Leach Facility
Phase 2B Part 2 Record of Construction
Underground Working Summary

Underground Working IDs			Location			Underground Working Information								Quantities (Approximate) CSB = Coarse Shaft Backfill; SF = Structural Fill; SSF = Select Structural Fill; CRF = Cemented Rockfill						
Historic ID	Ames ID	UG Working ID	Northing	Easting	Elev. (ft)	Working Description	Known or Unknown	Date	Approximate Opening Size	Timbers Present	Confirmation Drilling Performed	Remediation Performed	Remediation Type	Structure Present	CSB (CY)	SF (CY)	Geogrid (ft^2)	SSF (CY)	Concrete (CY)	CRF (CY)	Remarks
247	6617	5351	58047.4	35941.4	10010	Shallow Shaft	Known	4/30/2016	Unknown	No	Yes	Yes	Geogrid (Three Layers)	None	0	7,351	54,635	1,904	0	0	Consists of several interconnected workings: 6472, 6473,6474,6475. Working was drilled, blasted, and excavated. A four "step," three-layer geogrid cap was placed stepping up the slope per the remediation plan. Depression noticed after area had been left at subgrade between 2016 and 2019. The existing geogrid cap was removed and excavated removing the void. A three- layer cap consisting of new geogrid was then replaced extending 20 feet beyond the working limits. REMEDIATED.
U	6699	N/A	57911.9	36063.5	10055.2	Surface Working	Unknown	9/27/2019	6'x6'	None	None	Yes	Structural Rock Backfill	None	0	150	0	0	0	0	Depression noticed after area had been left at subgrade between 2016 and 2020. An excavator was used to investigate the area. The working was completely removed to competent rock and backfilled. REMEDIATED.

APPENDIX M.2 – UNDERGROUND WORKINGS LAYOUT



LEGEND:

- EXISTING GROUND CONTOURS
- SQUAW GULCH VLF PHASE 2 DESIGN GROUND CONTOURS
- PHASE 2 CONSTRUCTION LIMITS
- 6654 UNDERGROUND WORKING REMEDIATION LOCATION
- 6594 UNDERGROUND WORKING REMEDIATION LOCATION – CONCRETE
- 6606 UNDERGROUND WORKING REMEDIATION LOCATION – GEOGRID
- 6182 UNDERGROUND WORKING REMEDIATION LOCATION (CERTIFIED IN PHASE 1 RECORD OF CONSTRUCTION REPORTS)

0 200 400 FEET

NewFields

CLIENT: CRIPPLE CREEK & VICTOR GOLD MINING COMPANY

PROJECT: SQUAW GULCH VALLEY LEACH FACILITY PHASE 2

TITLE: UNDERGROUND WORKING REMEDIATION PHASE 2

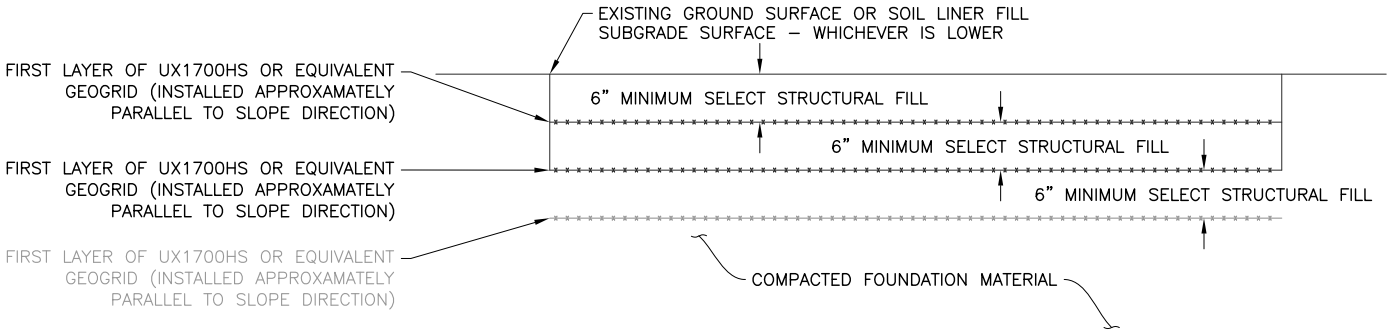
FILENAME: 0106.032.001F

FIGURE NO.: M.2

REVISION: 0

P:\Projects\0106.032 VLF2 Phase 2 COA\A-CAD\DWGS\ROC Report\0106.032.001F.dwg-7/19/2019 4:19 PM

APPENDIX M.3 – UNDERGROUND WORKINGS REMEDIATION AS-BUILT FIGURES



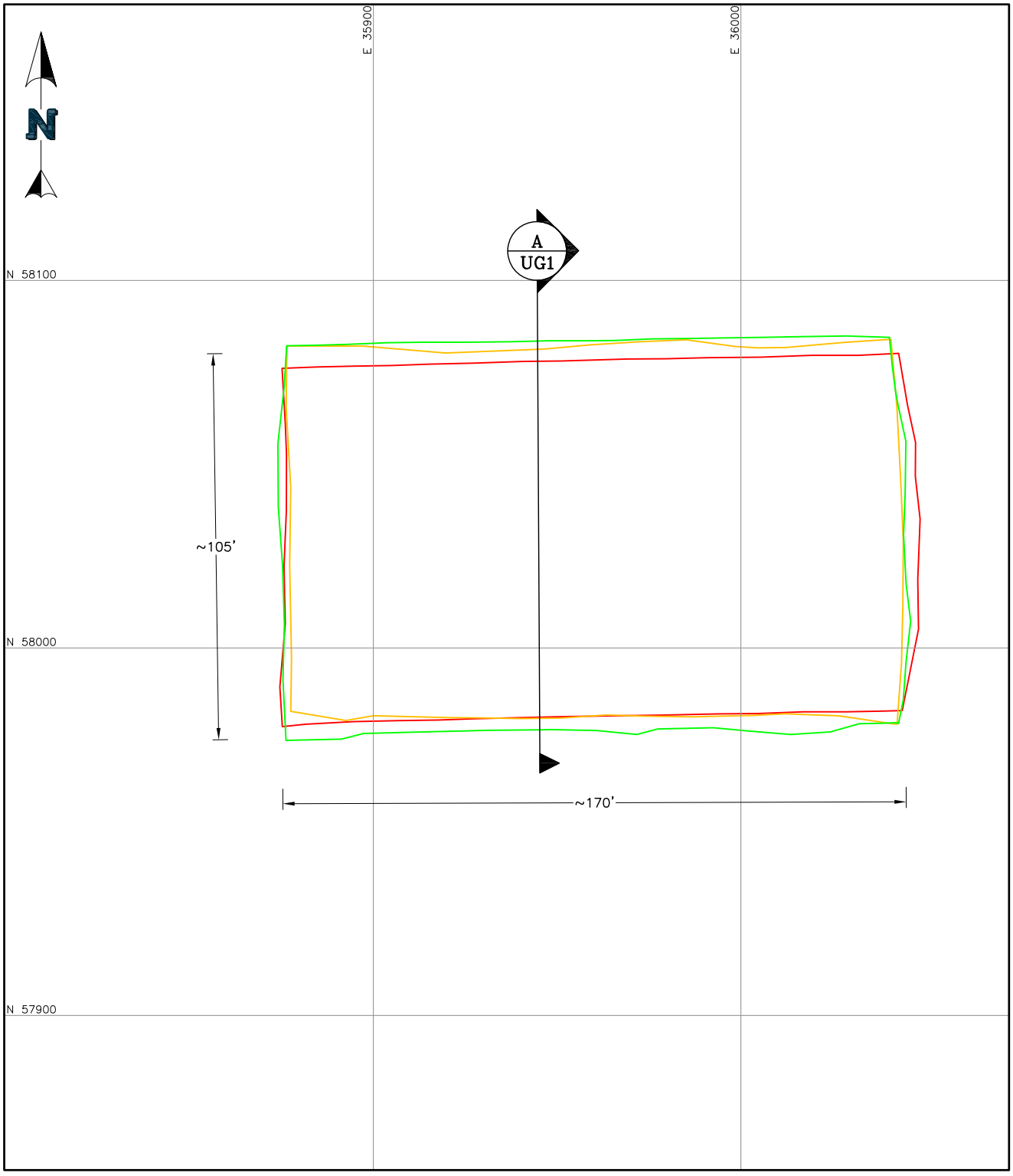
A / UG2 GEOGRID CAP INSTALLATION DETAIL (TYP.)

GEOGRID CAP INSTALLATION NOTES:

1. CONTRACTOR TO INSTALL DIRECTION OF MAXIMUM STRENGTH FOR THE SECOND LAYER OF UX1700HS OR EQUIVALENT HS GEOGRID TRANSVERSE TO THE DIRECTION OF MAXIMUM STRENGTH FOR THE FIRST LAYER OF UX1700HS GEOGRID.
2. A THIRD GEOGRID LAYER MAY BE ADDED IN AREAS UNDER HIGH NORMAL LOAD. AREAS REQUIRING THIRD GEOGRID WILL BE DETERMIN3D DURING REMEDIATION.
3. GEOGRID CAP TO EXTEND MINIMUM 15 FEET BEYOND MINE WORKING LIMIT.

P:\Projects\0106.032 VLF2 Phase 2 CQA\A-CAD\FIGS\GEOGRID DETAIL.dwg-11/16/2020 10:02 AM

NewFields	CLIENT	CRIPPLE CREEK & VICTOR GOLD MINING COMPANY
PROJECT		SQUAW GULCH VLF PHASE 2
TITLE	UNDERGROUND WORKINGS TYPICAL REMEDIATION DETAILS	FILENAME: GEOGRID DETAIL; FIGURE NO.: UG1; REVISION: 0



0 20 40 FEET

LEGEND:

- FIRST LAYER TENSAR UX180060 GEOGRID
- SECOND LAYER TENSAR UX180060 GEOGRID
- THIRD LAYER TENSAR UX180060 GEOGRID

NOTES:

1. SURVEY DATA PROVIDED BY EDWARD JAMES SURVEYING.

QUANTITIES:

1,904 CY – SELECT STRUCTURAL FILL

7,351 CY – STRUCTURAL FILL

54,635 SF – TOTAL GEOGRID

NewFields

CLIENT: CRIPPLE CREEK & VICTOR GOLD MINING COMPANY

PROJECT: SQUAW GULCH VLF PHASE 2

TITLE: GEOGRID REMEDIATION
UNDERGROUND WORKING NO. 6617

FILENAME: UG6617 – GEOGRID

FIGURE NO.: UG2

REVISION: 0

P:\Projects\0106.032 VLF2 Phase 2 COA\A-CAD\FIGS\UG6617 – GEOGRID.dwg–11/16/2020 9:05 AM