



Russell - DNR, Elliott <elliott.russell@state.co.us>

FW: VLF2, Phase 3 Certification Report Response to Comments -lab sheets

Johnna Gonzalez <Johnna.Gonzalez@newmont.com>
To: "Russell - DNR, Elliott" <elliott.russell@state.co.us>

Thu, Sep 21, 2023 at 1:30 PM

Hi Elliott,

Newfield's is still working on figure 6, however I wanted to get the lab sheets over for your review. I should be sending figure-6 over soon.

Thanks,



Johnna Gonzalez

ENVIRONMENTAL

100 N 3rd Street
PO Box 191

Victor, CO 80860

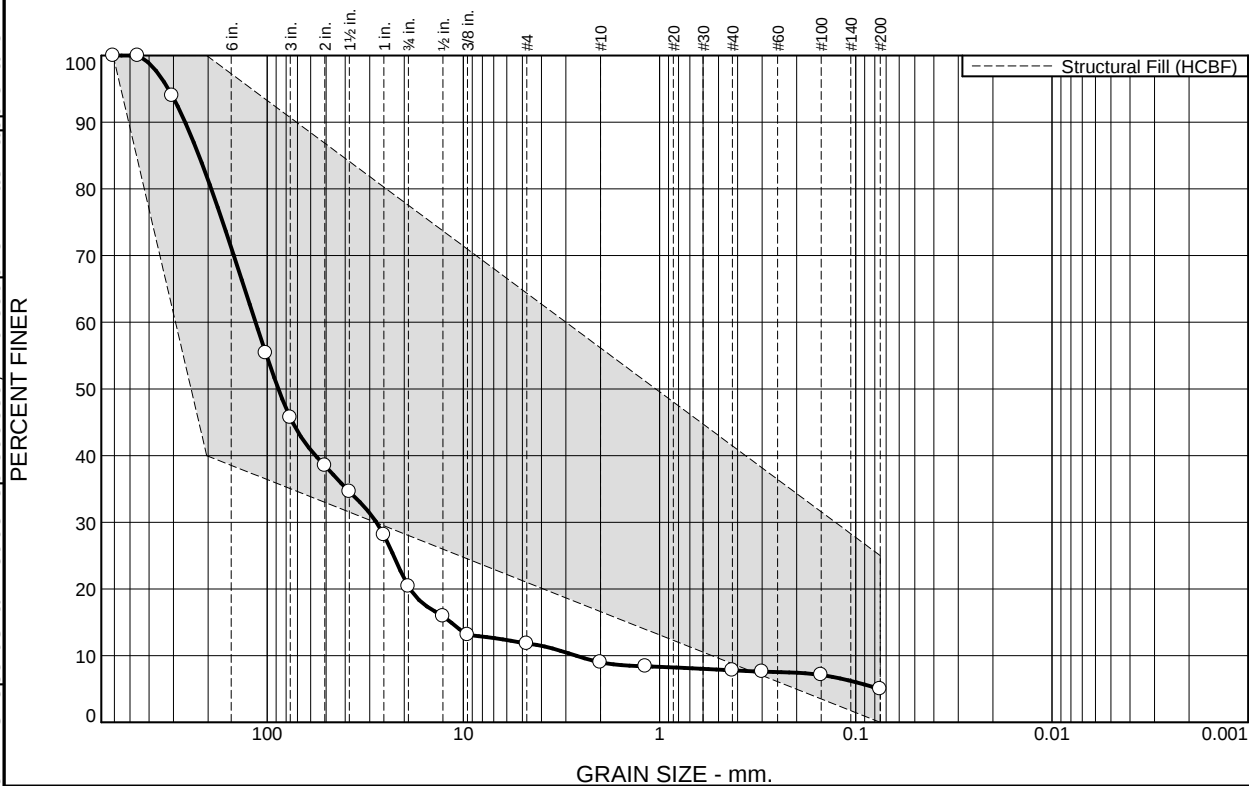
M 719.313.0447

NEWMONT.COM

App G.1 HCBF SF FINAL.pdf
4382K

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Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
54.3	25.3	8.6	2.8	1.2	2.8	5.0	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
24"	100.0	100.0	
18"	100.0		
12"	94.0		
4"	55.4		
3"	45.7		
2"	38.5		
1.5"	34.6		
1"	28.1		
.75"	20.4		
.5"	15.9		
.375"	13.1		
#4	11.8		
#10	9.0		
#16	8.4		
#40	7.8		
#50	7.6		
#100	7.1		
#200	5.0	0.0 - 25.0	

* Structural Fill (HCBF)

Material Description

Gray poorly graded gravel with silt

Atterberg Limits

PL= NP

LL= NV

PI= NP

Coefficients

D₉₀= 261.5291

D₈₅= 222.4895

D₆₀= 114.4750

D₅₀= 87.6232

D₃₀= 27.7094

D₁₅= 11.5688

D₁₀= 2.6714

C_u= 42.85

C_c= 2.51

Classification

USCS= GW-GM

AASHTO= A-1-a

Remarks

Location: N 59,945 E 35,520

Sample Number: HCBF-1-R

Depth: 9,900

Date: 10/20/2021

NewFields

Client: Newmont CC&V Gold Company

Project: VLF2 P3 Stage A

Project No: 475.0106.053

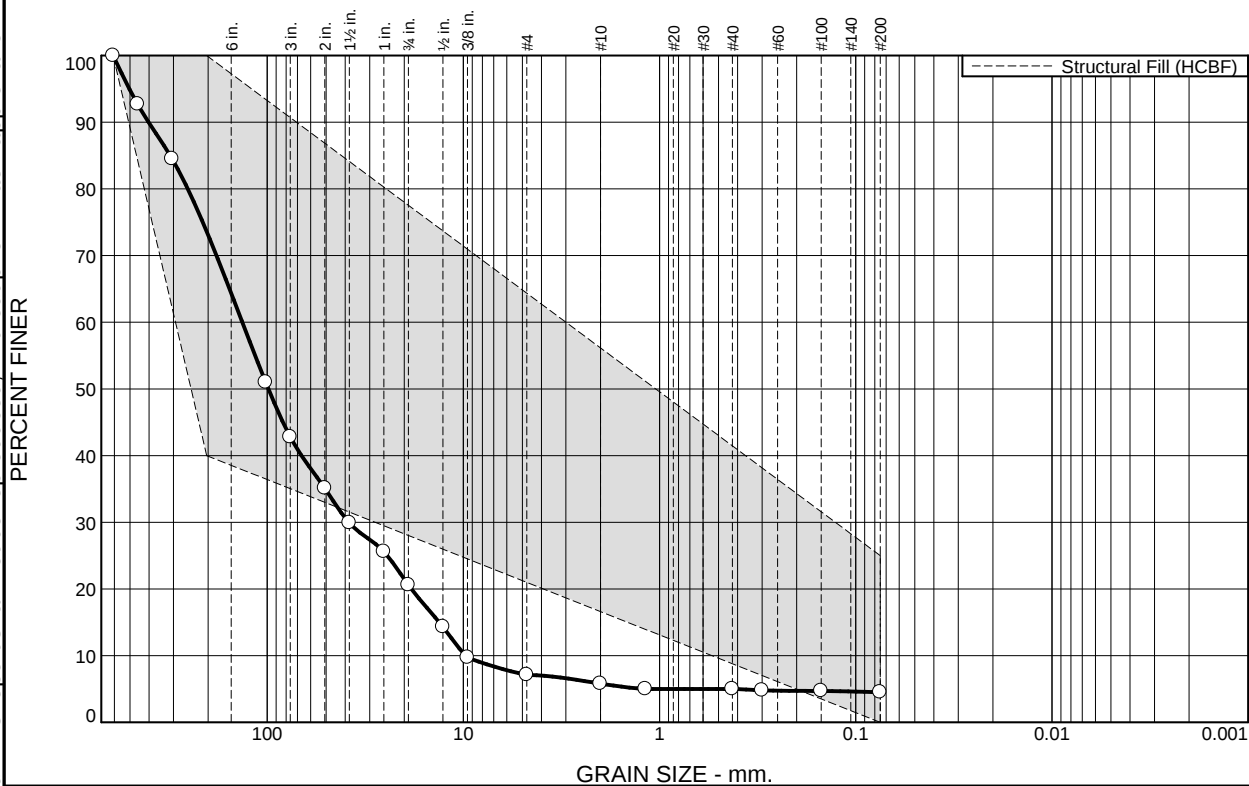
Figure HCBF-1-R

Tested By: TW

Checked By: TW

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Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
57.2	22.2	13.5	1.3	0.8	0.5	4.5	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
24"	100.0	100.0	
18"	92.7		
12"	84.5		
4"	51.0		
3"	42.8		
2"	35.1		
1.5"	29.9		
1"	25.6		
.75"	20.6		
.5"	14.3		
.375"	9.7		
#4	7.1		
#10	5.8		
#16	5.0		
#40	5.0		
#50	4.8		
#100	4.7		
#200	4.5	0.0 - 25.0	

* Structural Fill (HCBF)

Material Description

Light brown well-graded gravel with silt

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D₉₀= 401.6848 D₈₅= 311.9029 D₆₀= 133.7221
D₅₀= 98.4258 D₃₀= 38.3669 D₁₅= 13.2689
D₁₀= 9.7427 C_u= 13.73 C_c= 1.13

Classification

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

Remarks

Location: N 59,480 E 35,280
Sample Number: HCBF-2-R

Depth: 9,905

Date: 11/03/2021

NewFields

Client: Newmont CC&V Gold Company
Project: VLF2 P3 Stage A

Project No: 475.0106.053

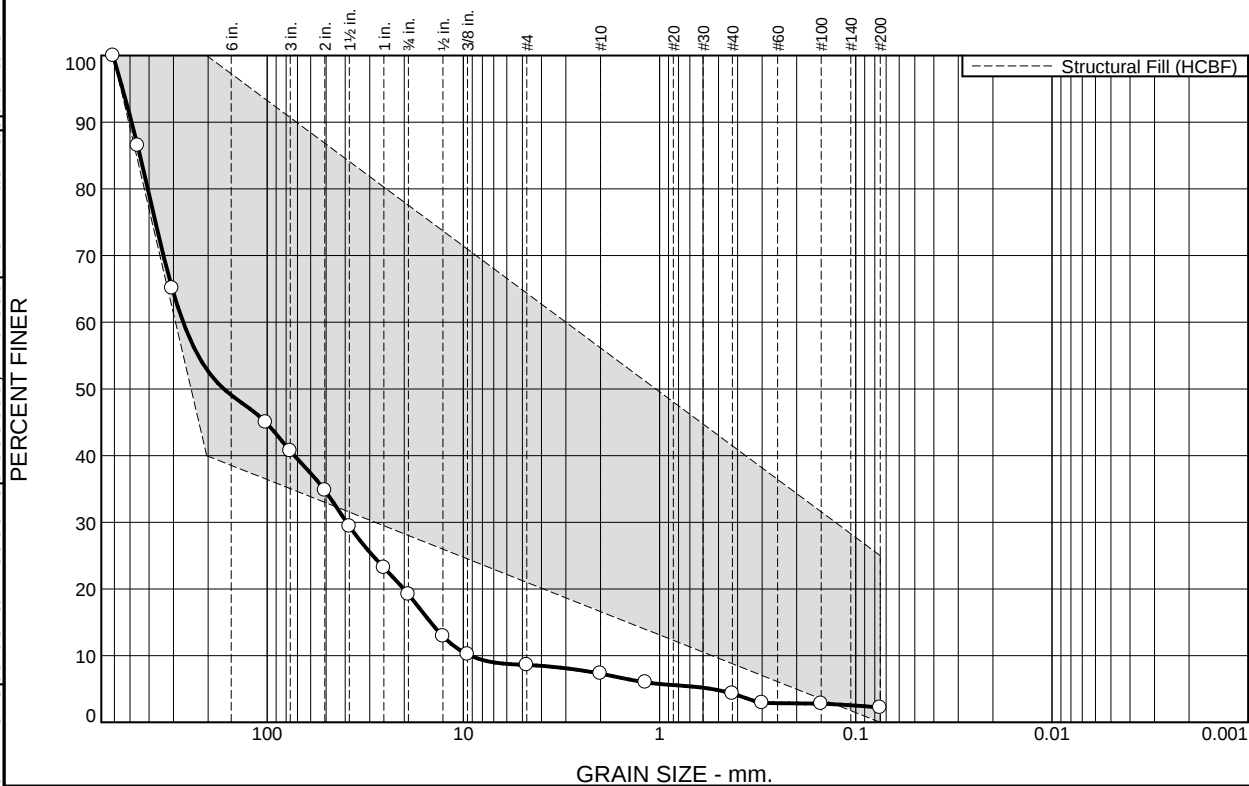
Figure HCBF-2-R

Tested By: TW

Checked By: TW

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Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
59.3	21.5	10.6	1.3	3.0	2.1	2.2	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
24"	100.0	100.0	
18"	86.5		
12"	65.1		
4"	45.0		
3"	40.7		
2"	34.8		
1.5"	29.4		
1"	23.2		
.75"	19.2		
.5"	12.9		
.375"	10.2		
#4	8.6		
#10	7.3		
#16	6.0		
#40	4.3		
#50	2.9		
#100	2.8		
#200	2.2	0.0 - 25.0	

* Structural Fill (HCBF)

Material Description

Gray poorly graded gravel with silt and sand

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D₉₀= 490.2496 D₈₅= 444.3081 D₆₀= 267.6907
D₅₀= 166.1048 D₃₀= 39.3581 D₁₅= 14.6777
D₁₀= 9.2137 C_u= 29.05 C_c= 0.63

Classification

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

Remarks

Location: N 59,320 E 35,600
Sample Number: HCBF-3-R

Depth: 9,910

Date: 11/04/2021

NewFields

Client: Newmont CC&V Gold Company
Project: VLF2 P3 Stage A

Project No: 475.0106.053

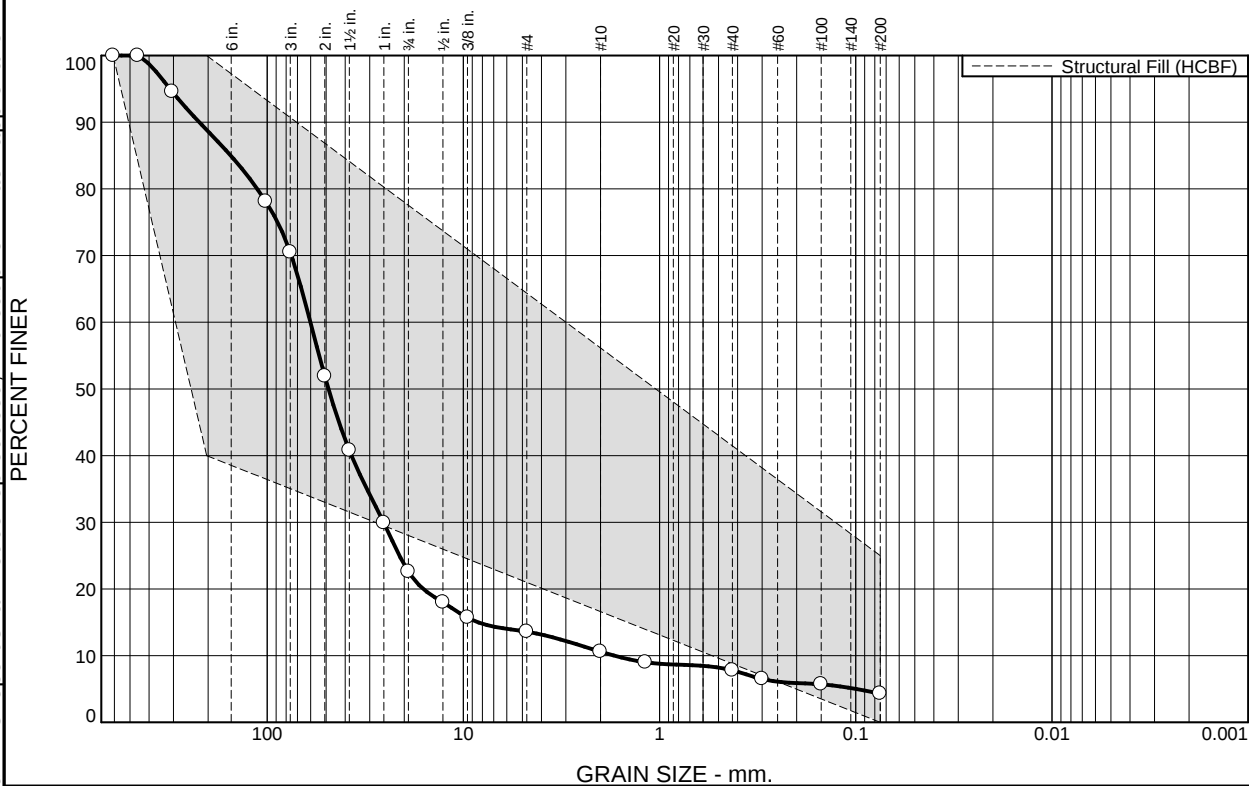
Figure HCBF-3-R

Tested By: TW

Checked By: TW

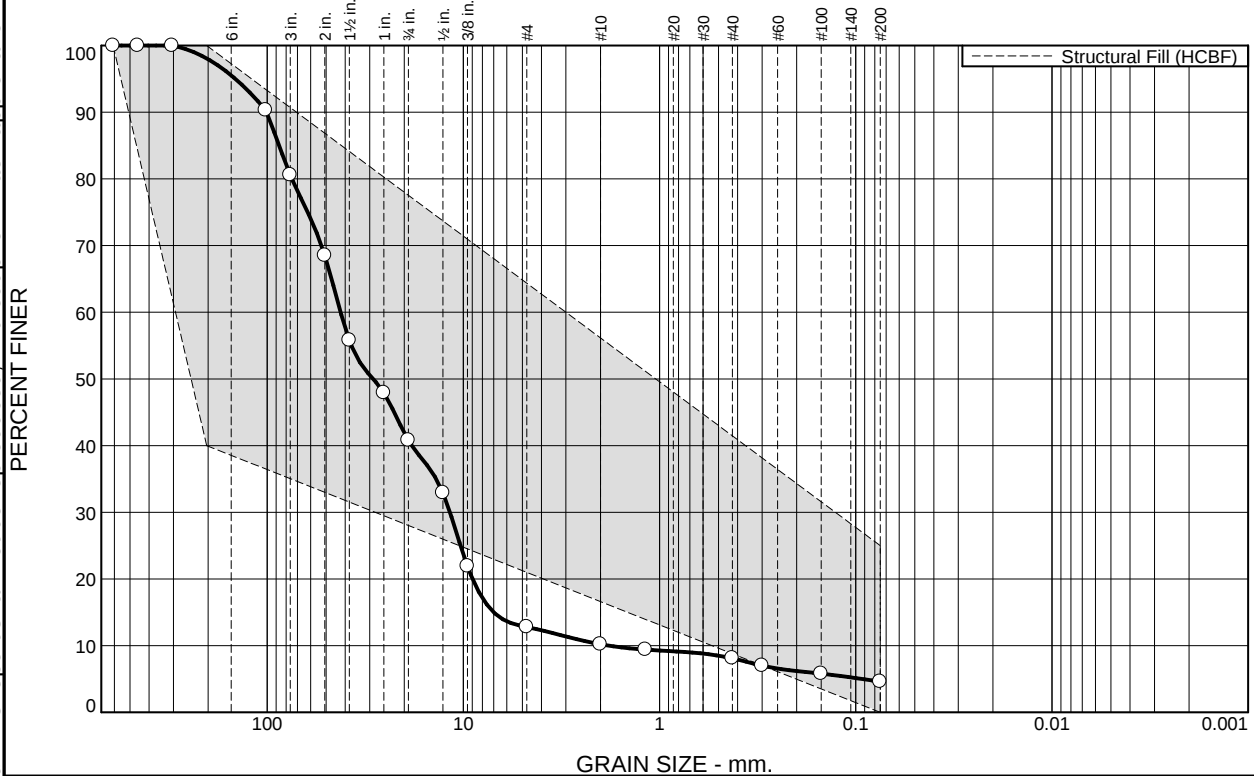
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Particle Size Distribution Report



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Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
19.4	39.8	28.0	2.6	2.1	3.5	4.6	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
24"	100.0	100.0	
18"	100.0		
12"	100.0		
4"	90.3		
3"	80.6		
2"	68.5		
1.5"	55.8		
1"	47.9		
.75"	40.8		
.5"	32.9		
.375"	21.9		
#4	12.8		
#10	10.2		
#16	9.4		
#40	8.1		
#50	7.0		
#100	5.8		
#200	4.6	0.0 - 25.0	

* Structural Fill (HCBF)

Material Description

Brown well-graded gravel with clay

Atterberg Limits

PL= 18 LL= 26 PI= 8

Coefficients

D₉₀= 100.6221 D₈₅= 86.8716 D₆₀= 42.2091
D₅₀= 28.8231 D₃₀= 11.6964 D₁₅= 7.0067
D₁₀= 1.8234 C_u= 23.15 C_c= 1.78

Classification

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

Remarks

Location: N 59,455 E 35,300
Sample Number: HCBF-5-R

Depth: 9,915

Date: 11/15/2021

NewFields

Client: Newmont CC&V Gold Company
Project: VLF2 P3 Stage A

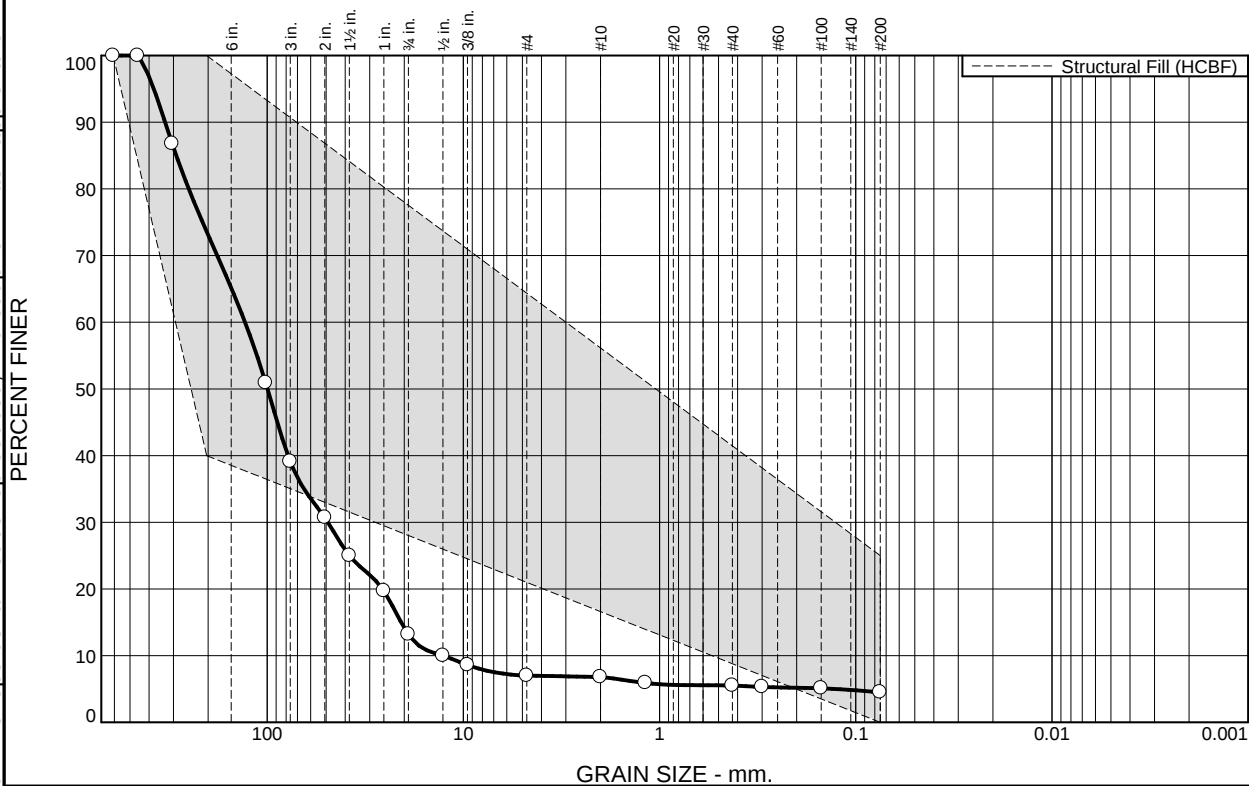
Project No: 475.0106.053

Figure HCBF-5-R

Tested By: TW

Checked By: TW

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
60.9	25.9	6.2	0.2	1.3	1.0	4.5	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
24"	100.0	100.0	
18"	100.0		
12"	86.8		
4"	50.9		
3"	39.1		
2"	30.7		
1.5"	25.0		
1"	19.7		
.75"	13.2		
.5"	10.0		
.375"	8.6		
#4	7.0		
#10	6.8		
#16	5.9		
#40	5.5		
#50	5.3		
#100	5.1		
#200	4.5	0.0 - 25.0	

* Structural Fill (HCBF)

Material Description

Light gray well-graded gravel with silt

$$P_L = NP$$

Atterberg Limits

$$LL = NV$$
$$P \models NP$$
$$D_{90} = 330.9517$$

Coefficients

$$D_{85} = 290.3505$$
$$D_{60} = 129.5381$$
$$D_{50} = 99.4695$$
$$D_{30} = 49.0056$$
$$D_{15} = 20.7437$$
$$D_{10}^{50} = 12.7000$$
$$C_u^{\text{SU}} = 10.20$$
$$C_C^{15} = 1.46$$

Classification

USCS= GW-GM

Location
AASHTO= A-1-a

Remarks



Client: Newmont CC&V Gold Company

Project: VLF2 P3 Stage A

Project No: 475.0106.053

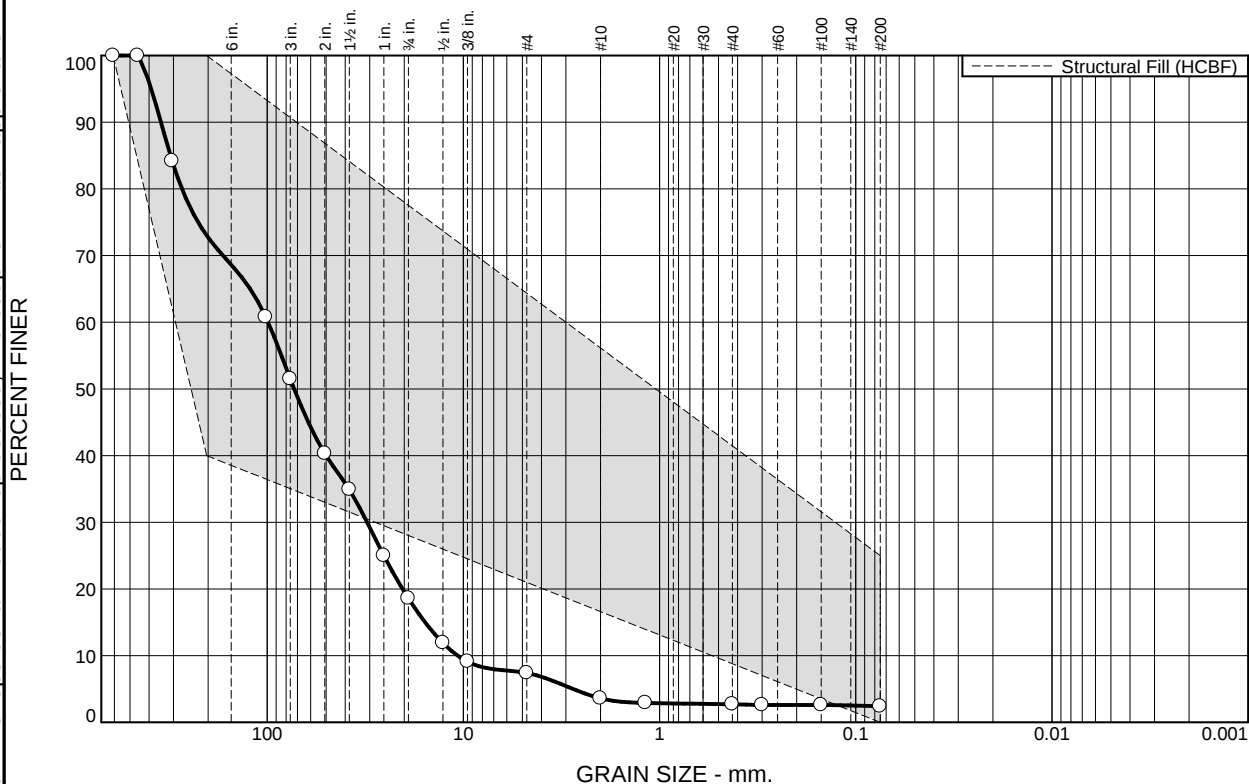
Figure HCBF-6-R

Tested By: TW

Checked By: TW

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Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
48.5	32.9	11.2	3.8	0.9	0.3	2.4	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
24"	100.0	100.0	
18"	100.0		
12"	84.2		
4"	60.8		
3"	51.5		
2"	40.3		
1.5"	34.9		
1"	25.0		
.75"	18.6		
.5"	11.9		
.375"	9.1		
#4	7.4		
#10	3.6		
#16	2.9		
#40	2.7		
#50	2.6		
#100	2.6		
#200	2.4	0.0 - 25.0	

* Structural Fill (HCBF)

Material Description

Gray poorly graded gravel

Atterberg Limits

PL= NP

LL= NV

PI= NP

Coefficients

D₉₀= 347.4423

D₈₅= 310.7219

D₆₀= 98.7856

D₅₀= 72.7786

D₃₀= 30.9118

D₁₅= 15.6604

D₁₀= 10.6834

C_u= 9.25

C_c= 0.91

Classification

USCS= GP

AASHTO= A-1-a

Remarks

Location: N 59,150 E 35,660
Sample Number: HCBF-7-R

Depth: 9,920

Date: 11/18/2021

NewFields

Client: Newmont CC&V Gold Company

Project: VLF2 P3 Stage A

Project No: 475.0106.053

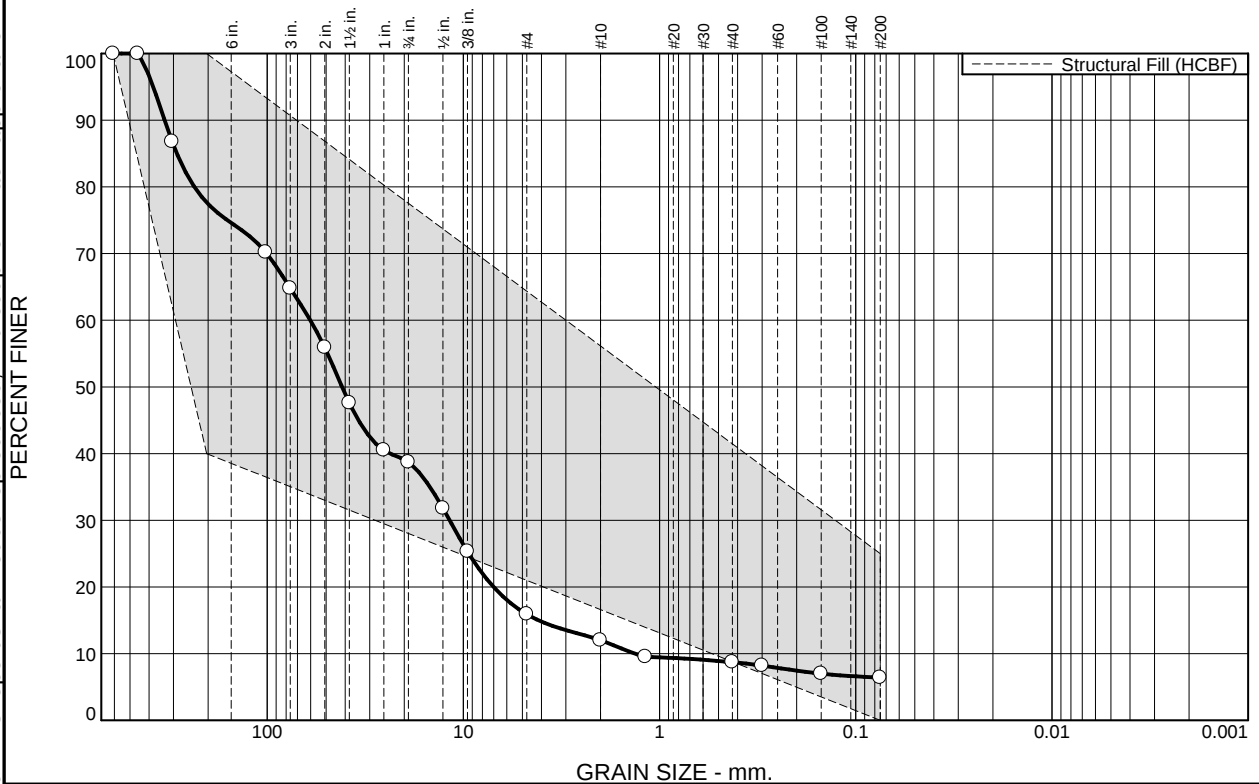
Figure HCBF-7-R

Tested By: TW

Checked By: TW

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Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
35.2	26.1	22.8	3.9	3.3	2.3	6.4	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
24"	100.0	100.0	
18"	100.0		
12"	86.8		
4"	70.2		
3"	64.8		
2"	55.9		
1.5"	47.6		
1"	40.5		
.75"	38.7		
.5"	31.8		
.375"	25.3		
#4	15.9		
#10	12.0		
#16	9.5		
#40	8.7		
#50	8.2		
#100	7.0		
#200	6.4	0.0 - 25.0	

* Structural Fill (HCBF)

Material Description

Brown well-graded gravel with silt

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D₉₀= 332.8383 D₈₅= 288.1925 D₆₀= 60.1952
D₅₀= 41.4960 D₃₀= 11.7382 D₁₅= 4.1452
D₁₀= 1.3353 C_u= 45.08 C_c= 1.71

Classification

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

Remarks

Location: N 59,400 E 35,220
Sample Number: HCBF-8-R

Depth: 9,925

Date: 11/22/2021

NewFields

Client: Newmont CC&V Gold Company
Project: VLF2 P3 Stage A

Project No: 475.0106.053

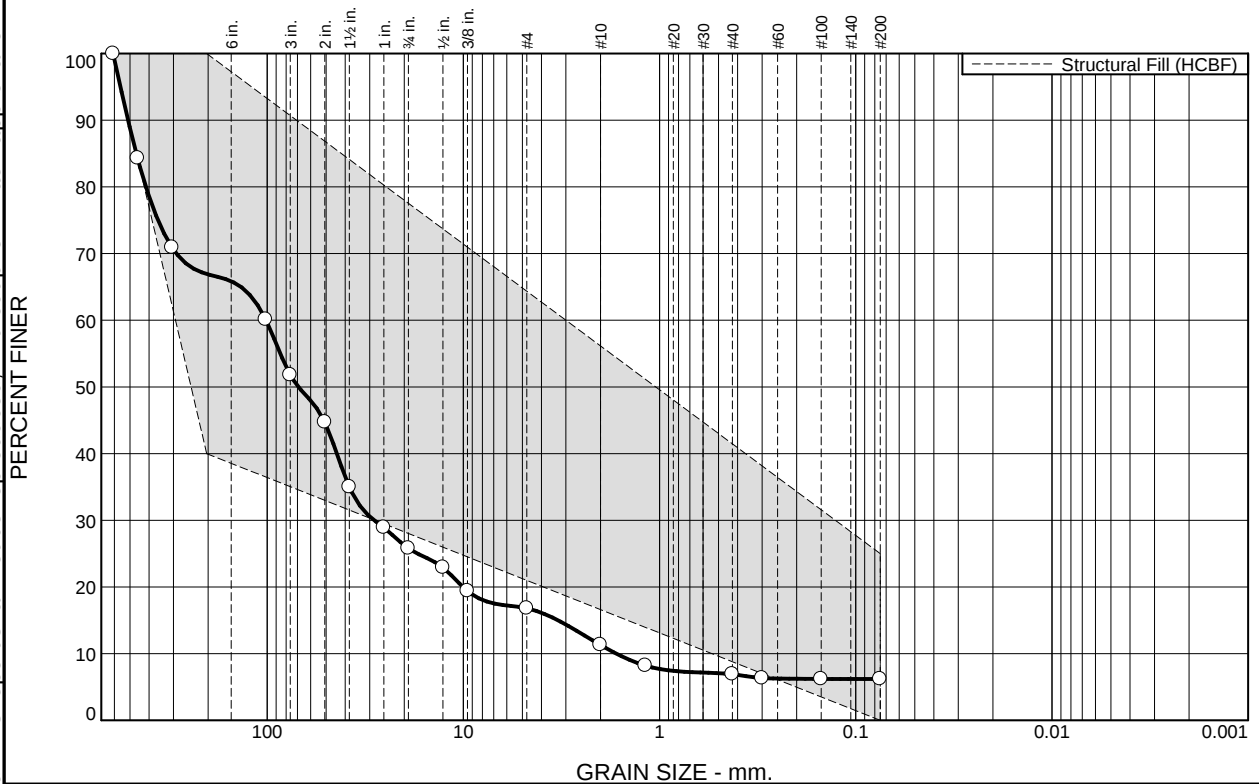
Figure HCBF-8-R

Tested By: TW

Checked By: TW

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Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
48.2	26.0	9.0	5.5	4.4	0.7	6.2	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
24"	100.0	100.0	
18"	84.3		
12"	70.9		
4"	60.1		
3"	51.8		
2"	44.7		
1.5"	35.0		
1"	28.9		
.75"	25.8		
.5"	22.9		
.375"	19.4		
#4	16.8		
#10	11.3		
#16	8.2		
#40	6.9		
#50	6.3		
#100	6.2		
#200	6.2	0.0 - 25.0	

* Structural Fill (HCBF)

Material Description

Gray poorly graded gravel with silt and sand

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D₉₀= 511.1968 D₈₅= 463.9189 D₆₀= 101.2165
D₅₀= 69.2695 D₃₀= 28.4214 D₁₅= 3.2951
D₁₀= 1.6603 C_u= 60.96 C_c= 4.81

Classification

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

Remarks

Location: N 59,200 E 35,600
Sample Number: HCBF-9-R

Depth: 9,925

Date: 11/22/2021

NewFields

Client: Newmont CC&V Gold Company

Project: VLF2 P3 Stage A

Project No: 475.0106.053

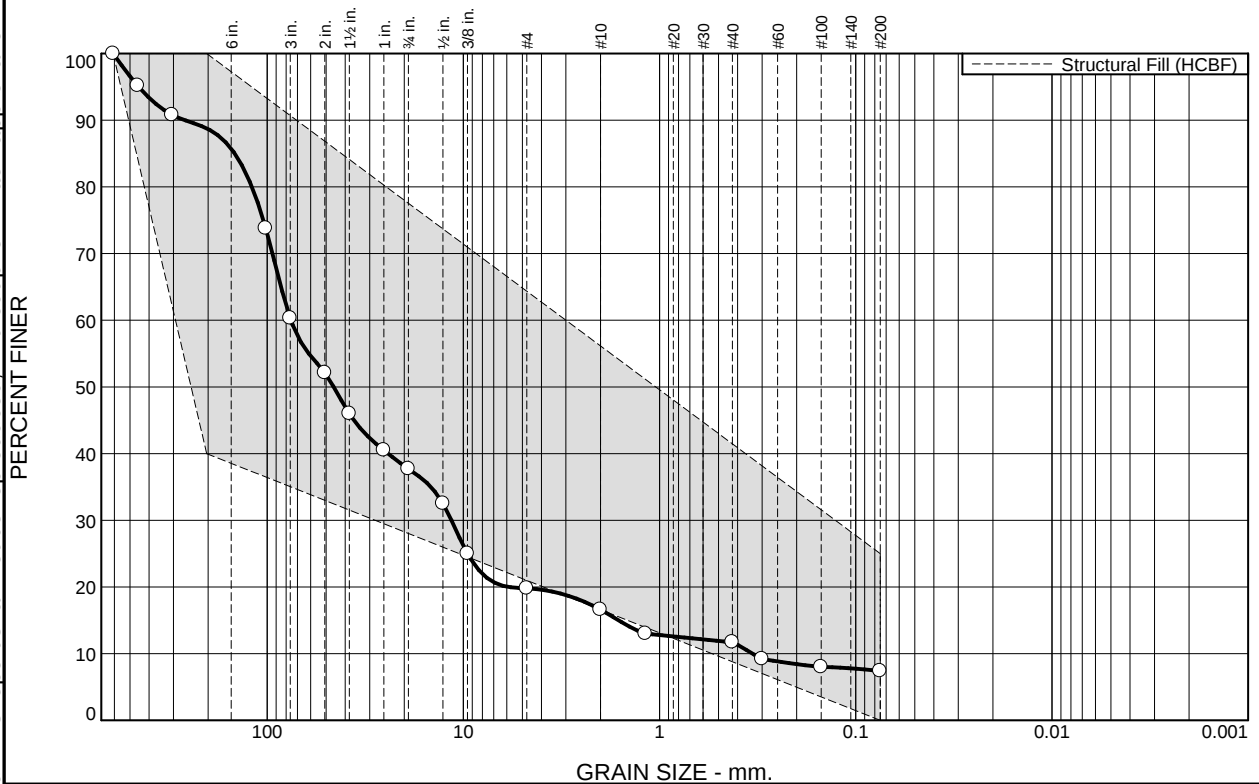
Figure HCBF-9-R

Tested By: TW

Checked By: TW

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Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
39.7	22.6	17.9	3.2	4.9	4.3	7.4	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
24"	100.0	100.0	
18"	95.2		
12"	90.8		
4"	73.8		
3"	60.3		
2"	52.1		
1.5"	46.0		
1"	40.5		
.75"	37.7		
.5"	32.5		
.375"	25.0		
#4	19.8		
#10	16.6		
#16	13.0		
#40	11.7		
#50	9.2		
#100	8.0		
#200	7.4	0.0 - 25.0	

* Structural Fill (HCBF)

Material Description

Reddish-brown silty clayey gravel with sand

Atterberg Limits

PL= 19 LL= 25 PI= 6

Coefficients

D₉₀= 262.4024 D₈₅= 146.1583 D₆₀= 75.5710
D₅₀= 45.7746 D₃₀= 11.4989 D₁₅= 1.6182
D₁₀= 0.3362 C_u= 224.77 C_c= 5.20

Classification

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

Remarks

Location: N 59,780 E 35625
Sample Number: HCBF-10-R

Depth: 9,930

Date: 12/03/2021



Client: Newmont CC&V Gold Company
Project: VLF2 P3 Stage A

Project No: 475.0106.053

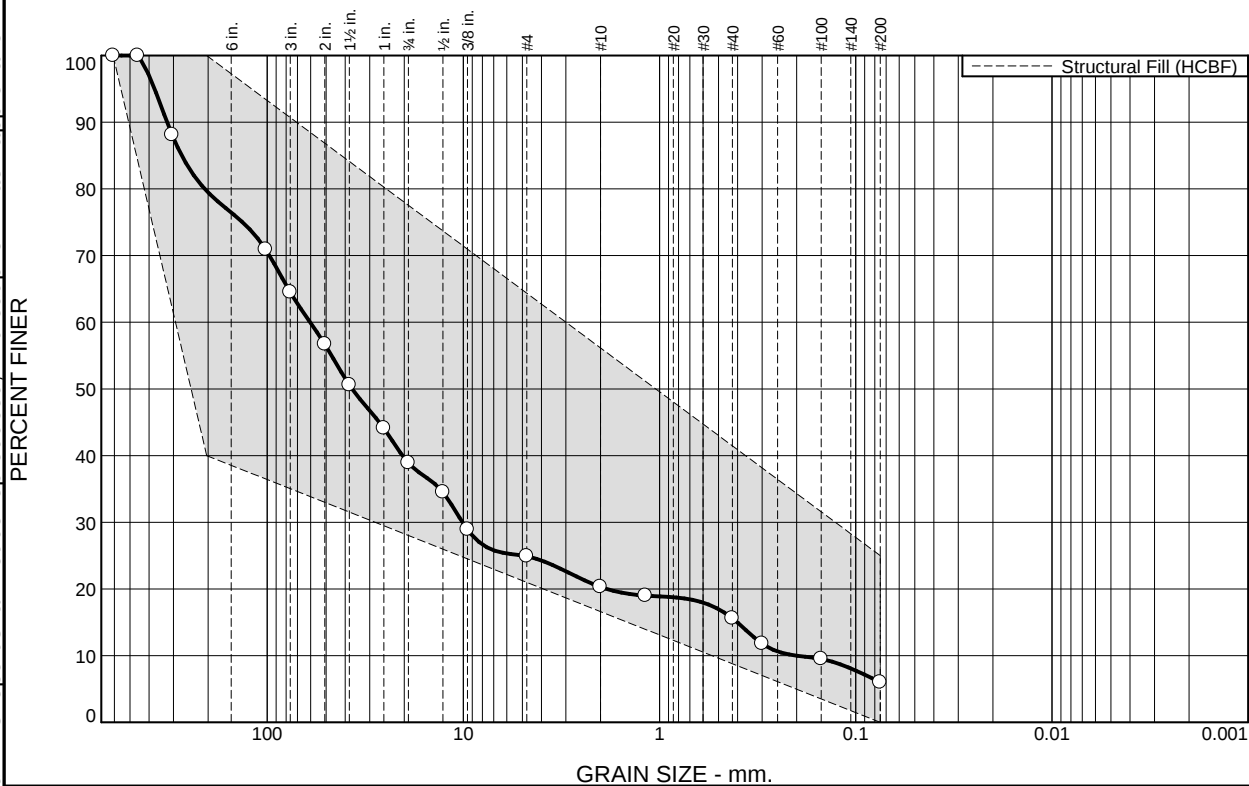
Figure HCBF-10-R

Tested By: TW

Checked By: TW

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Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
35.5	25.6	14.0	4.6	4.7	9.6	6.0	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
24"	100.0	100.0	
18"	100.0		
12"	88.1		
4"	70.9		
3"	64.5		
2"	56.7		
1.5"	50.6		
1"	44.1		
.75"	38.9		
.5"	34.5		
.375"	28.9		
#4	24.9		
#10	20.3		
#16	19.0		
#40	15.6		
#50	11.8		
#100	9.5		
#200	6.0	0.0 - 25.0	

* Structural Fill (HCBF)

Material Description

Brown poorly graded gravel with silt and sand

Atterberg Limits

PL= NP

LL= NV

PI= NP

Coefficients

D₉₀= 323.2722

D₈₅= 272.2468

D₆₀= 60.3589

D₅₀= 36.8707

D₃₀= 10.1049

D₁₅= 0.4016

D₁₀= 0.2009

C_u= 300.43

C_c= 8.42

Classification

USCS= GP-GM

AASHTO= A-1-a

Remarks

Location: N 59,170 E 35,855
Sample Number: HCBF-11-R

Depth: 9,935

Date: 12/03/2021

NewFields

Client: Newmont CC&V Gold Company

Project: VLF2 P3 Stage A

Project No: 475.0106.053

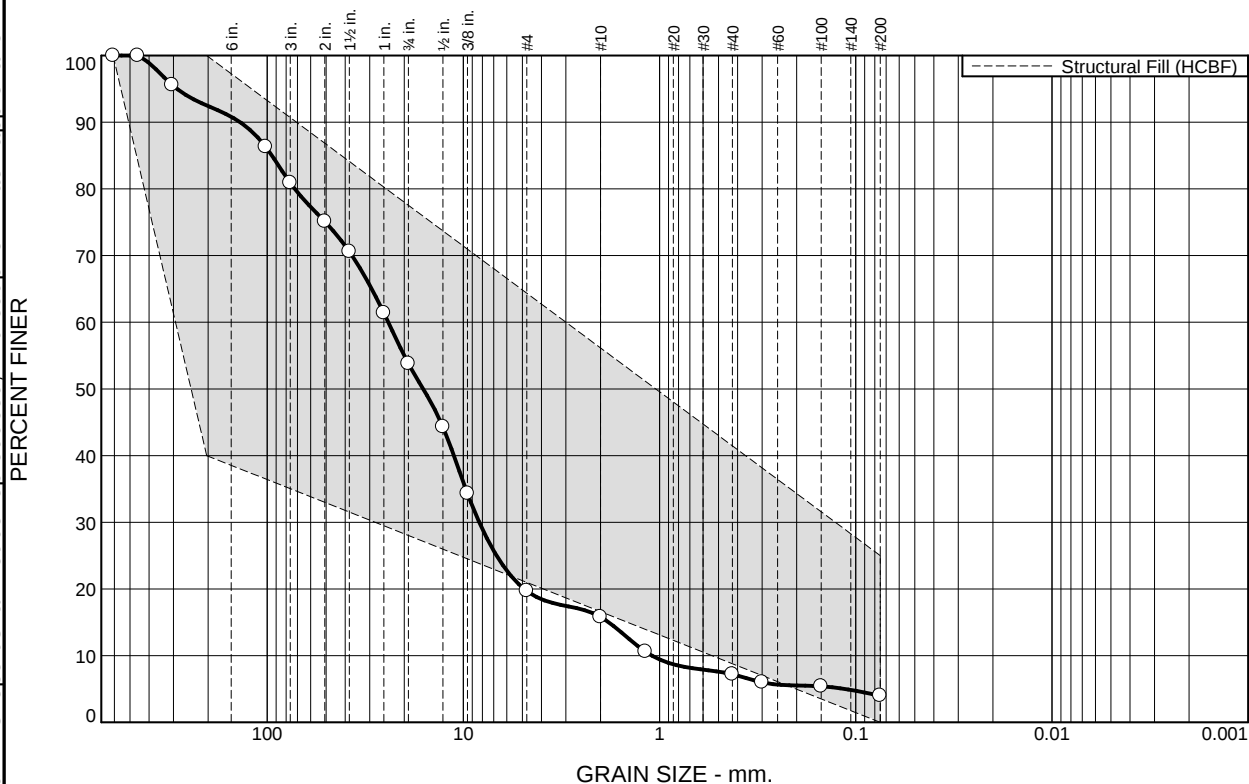
Figure HCBF-11-R

Tested By: TW

Checked By: TW

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Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
19.1	27.1	34.1	3.9	8.6	3.2	4.0	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
24"	100.0	100.0	
18"	100.0		
12"	95.6		
4"	86.3		
3"	80.9		
2"	75.1		
1.5"	70.6		
1"	61.4		
.75"	53.8		
.5"	44.3		
.375"	34.3		
#4	19.7		
#10	15.8		
#16	10.6		
#40	7.2		
#50	6.0		
#100	5.4		
#200	4.0	0.0 - 25.0	

* Structural Fill (HCBF)

Material Description

Light brown well-graded gravel with sand

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D₉₀= 137.1224 D₈₅= 94.4770 D₆₀= 24.1122
D₅₀= 16.0114 D₃₀= 8.2994 D₁₅= 1.8174
D₁₀= 1.0925 C_u= 22.07 C_c= 2.61

Classification

USCS= GW AASHTO= A-1-a

Remarks

Location: N 59,600 E 35,780
Sample Number: HCBF-12-R

Depth: 9,945

Date: 12/08/2021



Client: Newmont CC&V Gold Company
Project: VLF2 P3 Stage A

Project No: 475.0106.053

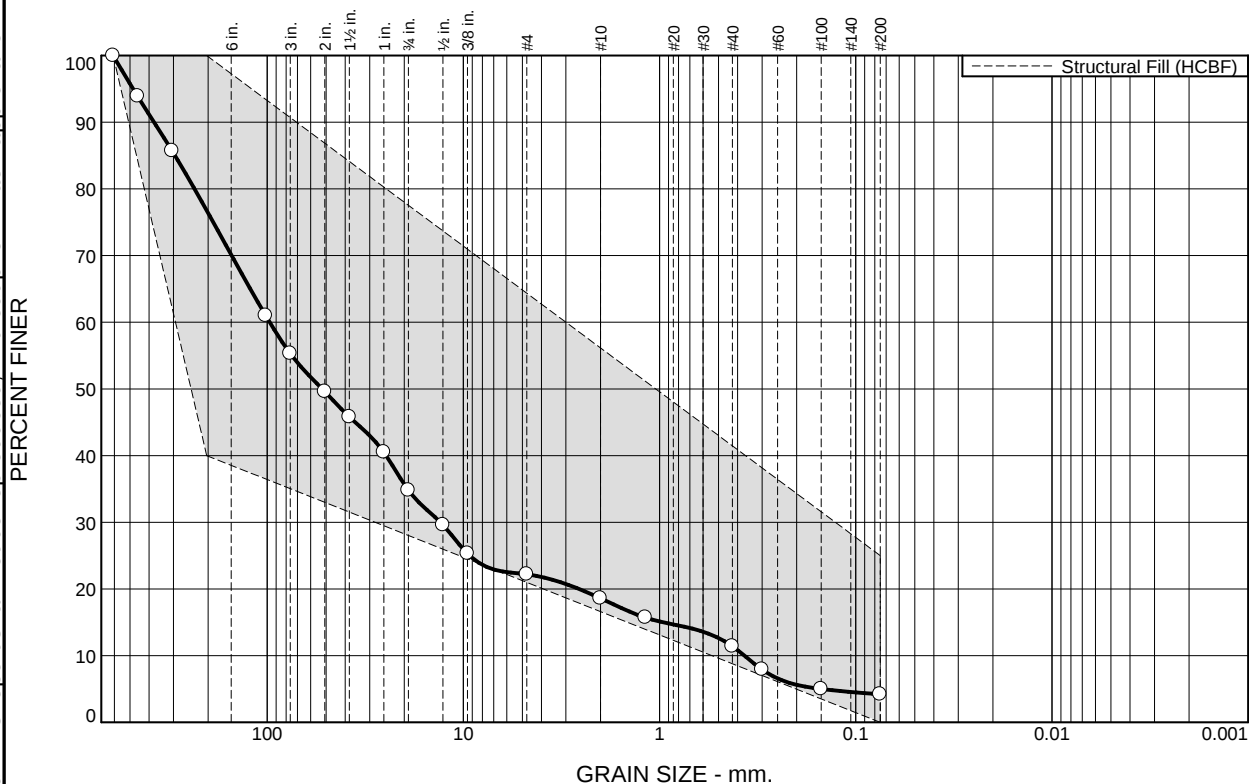
Figure HCBF-12-R

Tested By: TW

Checked By: TW

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Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
44.7	20.5	12.6	3.6	7.2	7.2	4.2	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
24"	100.0	100.0	
18"	93.9		
12"	85.7		
4"	61.0		
3"	55.3		
2"	49.6		
1.5"	45.8		
1"	40.5		
.75"	34.8		
.5"	29.6		
.375"	25.3		
#4	22.2		
#10	18.6		
#16	15.7		
#40	11.4		
#50	7.9		
#100	5.0		
#200	4.2	0.0 - 25.0	

* Structural Fill (HCBF)

Material Description

Brown poorly graded gravel with silt and sand

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D₉₀= 376.8347 D₈₅= 294.7798 D₆₀= 96.9751
D₅₀= 52.3673 D₃₀= 13.0858 D₁₅= 0.9585
D₁₀= 0.3693 C_u= 262.60 C_c= 4.78

Classification

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

Remarks

Location: N 59,250 E 35,520
Sample Number: HCBF-13-R

Depth: 9,945

Date: 12/09/2021



Client: Newmont CC&V Gold Company
Project: VLF2 P3 Stage A

Project No: 475.0106.053

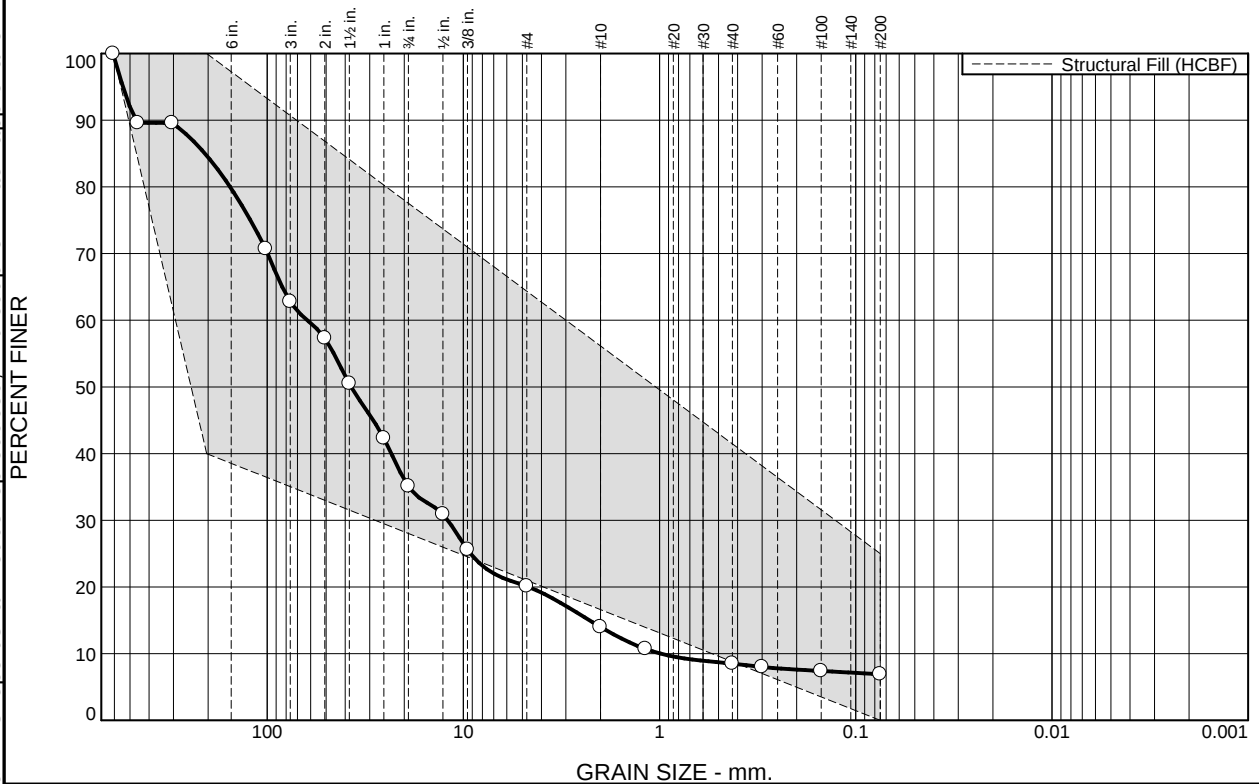
Figure HCBF-13-R

Tested By: TW

Checked By: TW

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

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
37.2	27.7	15.0	6.1	5.5	1.6	6.9	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
24"	100.0	100.0	
18"	89.6		
12"	89.6		
4"	70.7		
3"	62.8		
2"	57.3		
1.5"	50.5		
1"	42.3		
.75"	35.1		
.5"	30.9		
.375"	25.6		
#4	20.1		
#10	14.0		
#16	10.7		
#40	8.5		
#50	8.0		
#100	7.4		
#200	6.9	0.0 - 25.0	

* Structural Fill (HCBF)

Material Description

Gray well-graded gravel with siltyclay and sand

Atterberg Limits

PL= 18 LL= 25 PI= 7

Coefficients

D₉₀= 465.9000 D₈₅= 207.2683 D₆₀= 62.3323
D₅₀= 37.2584 D₃₀= 11.9856 D₁₅= 2.2784
D₁₀= 0.9870 C_u= 63.15 C_c= 2.33

Classification

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

Remarks

Location: N 59,175 E 35,590
Sample Number: HCBF-14-R

Depth: 9,950

Date: 12/14/2021

NewFields

Client: Newmont CC&V Gold Company

Project: VLF2 P3 Stage A

Project No: 475.0106.053

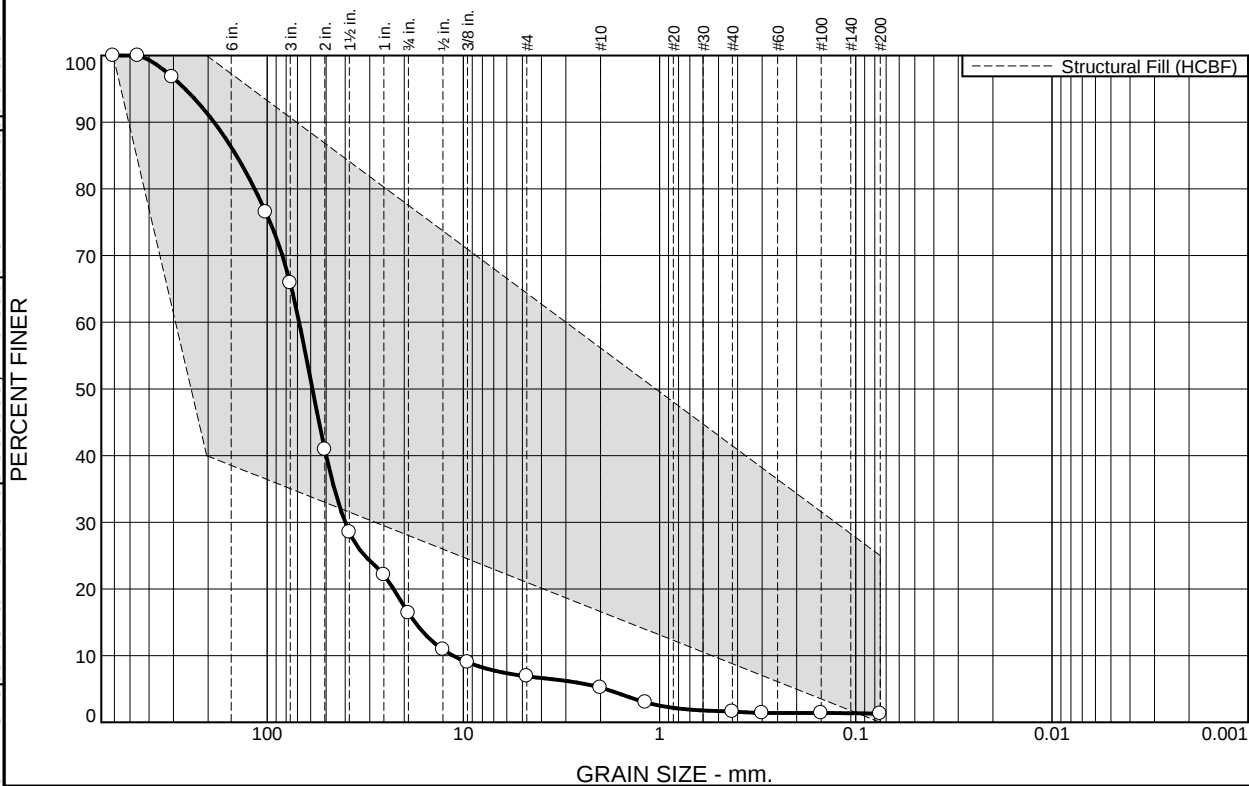
Figure HCBF-14-R

Tested By: TW

Checked By: TW

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

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
34.1	49.5	9.5	1.7	3.6	0.3	1.3	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
24"	100.0	100.0	
18"	100.0		
12"	96.8		
4"	76.5		
3"	65.9		
2"	40.9		
1.5"	28.5		
1"	22.1		
.75"	16.4		
.5"	10.9		
.375"	9.0		
#4	6.9		
#10	5.2		
#16	3.0		
#40	1.6		
#50	1.4		
#100	1.4		
#200	1.3	0.0 - 25.0	

* Structural Fill (HCBF)

Material Description

Light brown well-graded gravel

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D₉₀= 186.2272 D₈₅= 143.2612 D₆₀= 68.6121
D₅₀= 58.7469 D₃₀= 40.0326 D₁₅= 17.6333
D₁₀= 11.3090 C_u= 6.07 C_c= 2.07

Classification

USCS= GW AASHTO= A-1-a

Remarks

Location: N 59,615 E 35,380
Sample Number: HCBF-15-R

Depth: 9,955

Date: 12/16/2021

NewFields

Client: Newmont CC&V Gold Company
Project: VLF2 P3 Stage A

Project No: 475.0106.053

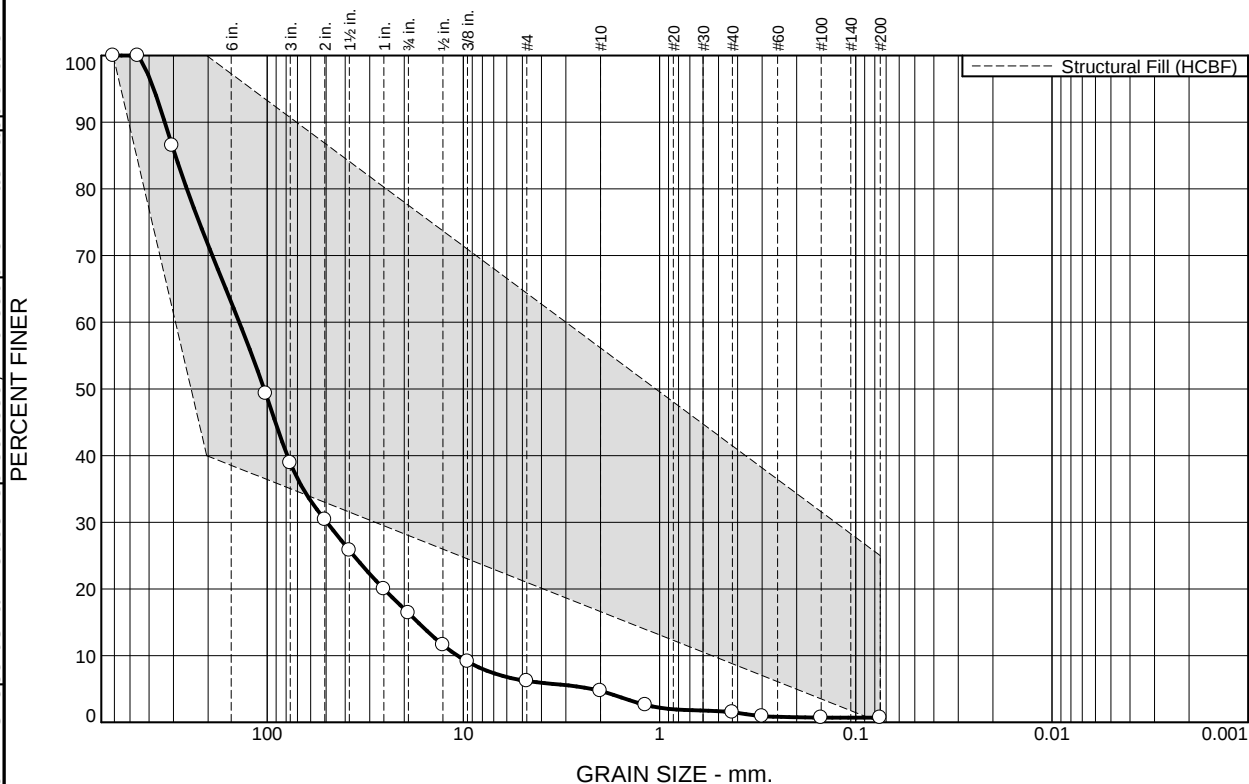
Figure HCBF-15-R

Tested By: TW

Checked By: TW

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

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
61.1	22.5	10.2	1.5	3.2	0.8	0.7	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
24"	100.0	100.0	
18"	100.0		
12"	86.5		
4"	49.3		
3"	38.9		
2"	30.4		
1.5"	25.8		
1"	20.0		
.75"	16.4		
.5"	11.6		
.375"	9.1		
#4	6.2		
#10	4.7		
#16	2.6		
#40	1.5		
#50	0.9		
#100	0.7		
#200	0.7	0.0 - 25.0	

* Structural Fill (HCBF)

Material Description

Gray brown well-graded gravel

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D₉₀= 332.3375 D₈₅= 293.3826 D₆₀= 138.6419
D₅₀= 103.5361 D₃₀= 49.5630 D₁₅= 17.0199
D₁₀= 10.7007 C_u= 12.96 C_c= 1.66

Classification

USCS= GW AASHTO= A-1-a

Remarks

Location: N 59,850 E 35,600
Sample Number: HCBF-16-R

Depth: 9,955

Date: 12/16/2021

NewFields

Client: Newmont CC&V Gold Company
Project: VLF2 P3 Stage A

Project No: 475.0106.053

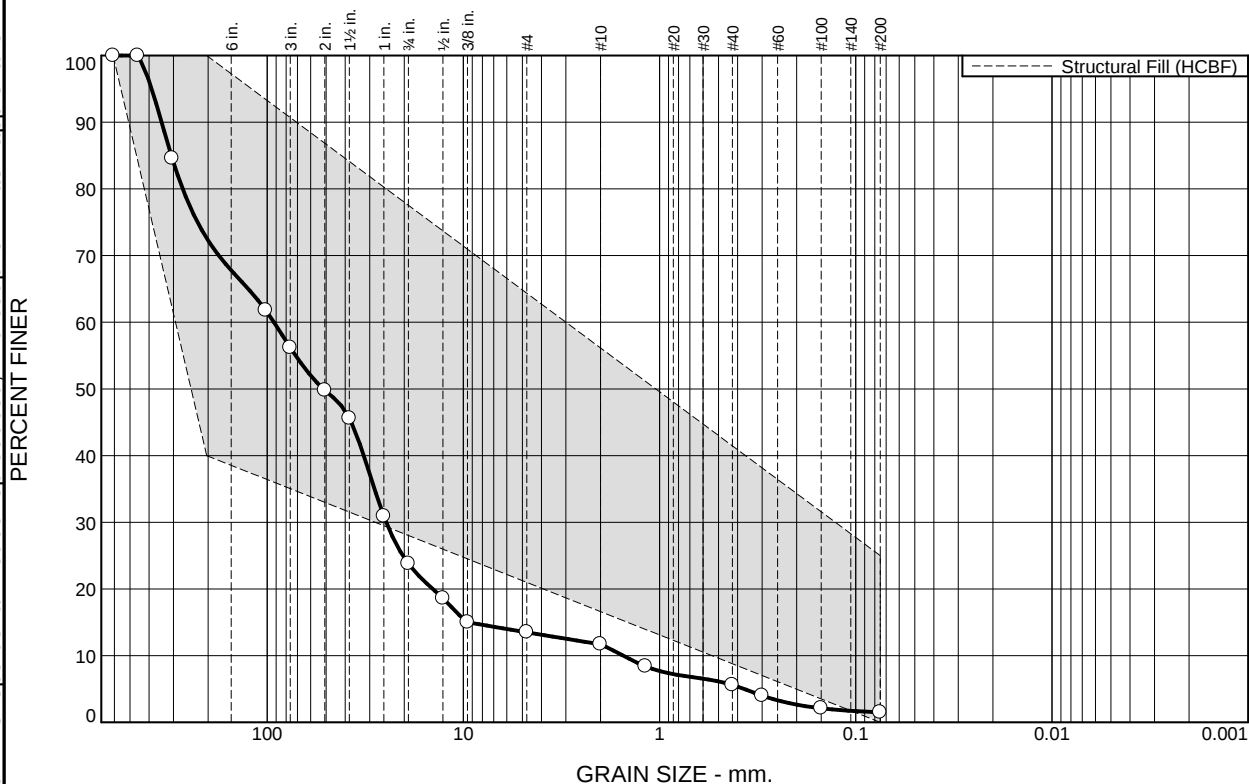
Figure HCBF-16-R

Tested By: TW

Checked By: TW

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

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
43.8	32.4	10.3	1.8	6.1	4.1	1.5	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
24"	100.0	100.0	
18"	100.0		
12"	84.6		
4"	61.8		
3"	56.2		
2"	49.8		
1.5"	45.6		
1"	30.9		
.75"	23.8		
.5"	18.6		
.375"	15.0		
#4	13.5		
#10	11.7		
#16	8.4		
#40	5.6		
#50	4.0		
#100	2.1		
#200	1.5	0.0 - 25.0	

* Structural Fill (HCBF)

Material Description

Brown poorly graded gravel with sand

Atterberg Limits

PL= NP

LL= NV

PI= NP

Coefficients

D₉₀= 344.7755

D₈₅= 307.7528

D₆₀= 92.2631

D₅₀= 51.6895

D₃₀= 24.7166

D₁₅= 9.5250

D₁₀= 1.5324

C_u= 60.21

C_c= 4.32

Classification

USCS= GP

AASHTO= A-1-a

Remarks

Location: N 59,220 E 36,000
Sample Number: HCBF-17-R

Depth: 9,970

Date: 01/05/2022

NewFields

Client: Newmont CC&V Gold Company

Project: VLF2 P3 Stage A

Project No: 475.0106.053

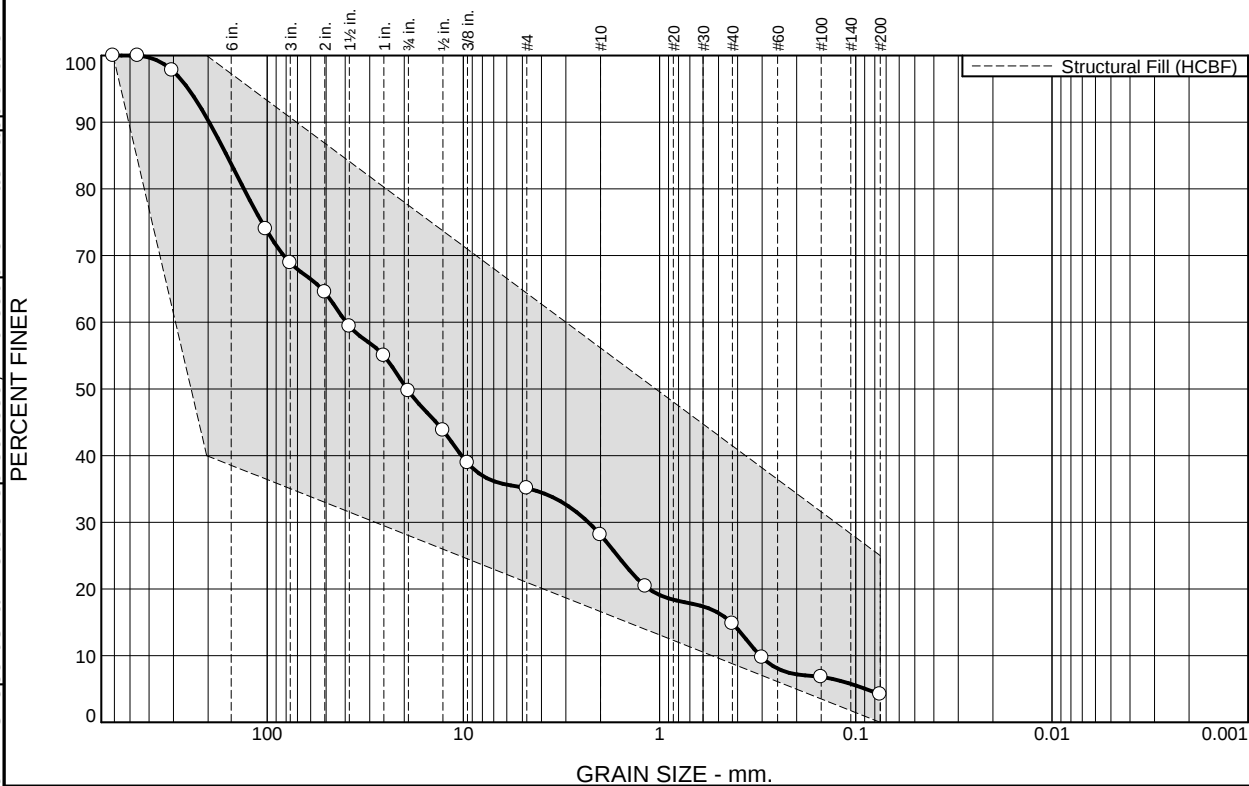
Figure HCBF-17-R

Tested By: TW

Checked By: TW

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

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
31.1	19.2	14.6	7.0	13.3	10.6	4.2	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
24"	100.0	100.0	
18"	100.0		
12"	97.8		
4"	74.0		
3"	68.9		
2"	64.5		
1.5"	59.4		
1"	55.0		
.75"	49.7		
.5"	43.8		
.375"	38.9		
#4	35.1		
#10	28.1		
#16	20.4		
#40	14.8		
#50	9.7		
#100	6.8		
#200	4.2	0.0 - 25.0	

* Structural Fill (HCBF)

Material Description

Gray poorly graded gravel with silt and sand

Atterberg Limits

PL= NP

LL= NV

PI= NP

Coefficients

D₉₀= 197.2863

D₈₅= 160.2850

D₆₀= 39.5767

D₅₀= 19.3726

D₃₀= 2.3078

D₁₅= 0.4320

D₁₀= 0.3072

C_u= 128.84

C_c= 0.44

Classification

USCS= GP-GM

AASHTO= A-1-a

Remarks

Location: N 59,280 E 35,265
Sample Number: HCBF-18-R

Depth: 9,975

Date: 01/17/2021

NewFields

Client: Newmont CC&V Gold Company

Project: VLF2 P3 Stage A

Project No: 475.0106.053

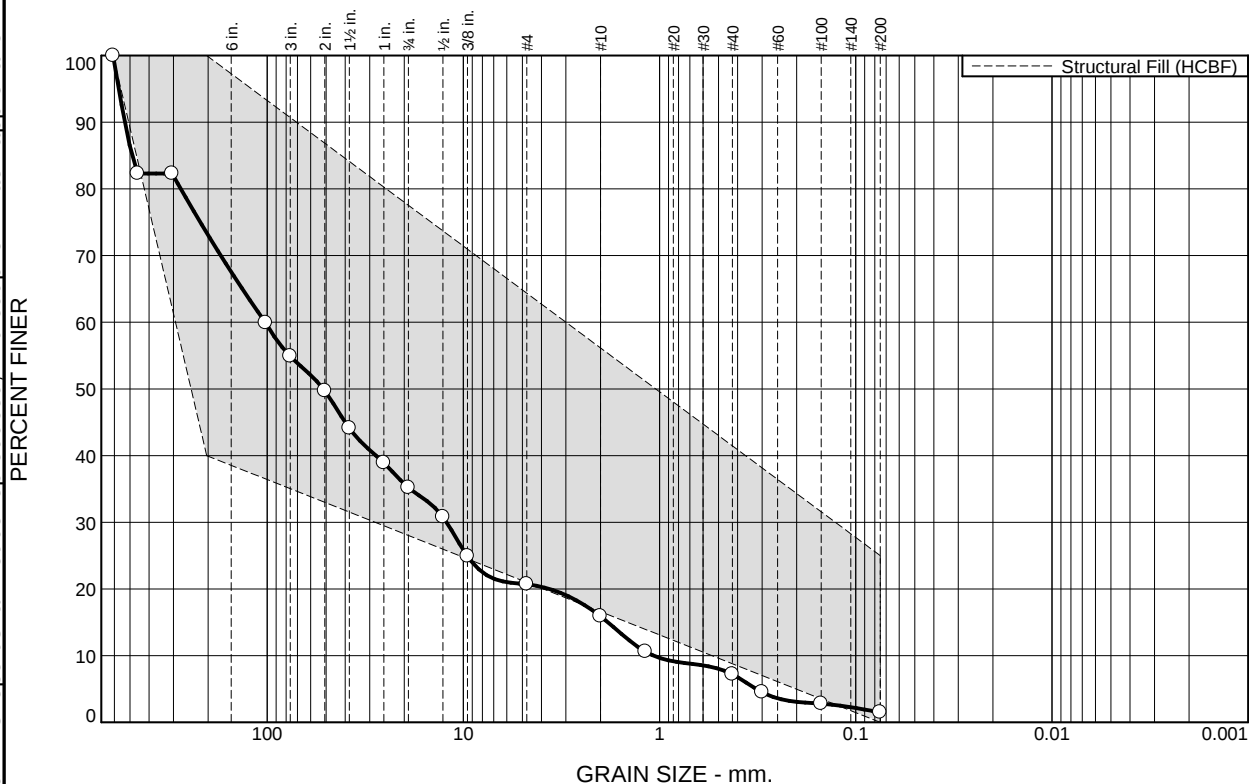
Figure HCBF-18-R

Tested By: TW

Checked By: TW

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

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
45.1	19.7	14.5	4.8	8.7	5.7	1.5	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
24"	100.0	100.0	
18"	82.3		
12"	82.3		
4"	59.9		
3"	54.9		
2"	49.7		
1.5"	44.1		
1"	38.9		
.75"	35.2		
.5"	30.8		
.375"	24.9		
#4	20.7		
#10	15.9		
#16	10.6		
#40	7.2		
#50	4.5		
#100	2.8		
#200	1.5	0.0 - 25.0	

* Structural Fill (HCBF)

Material Description

Brown well-graded gravel with sand

Atterberg Limits

PL= NP

LL= NV

PI= NP

Coefficients

D₉₀= 530.9382

D₈₅= 487.5178

D₆₀= 102.1655

D₅₀= 51.7115

D₃₀= 12.1607

D₁₅= 1.8341

D₁₀= 1.0721

C_u= 95.30

C_c= 1.35

Classification

USCS= GW

AASHTO= A-1-a

Remarks

Location: N 59,540 E 35,080
Sample Number: HCBF-19-R

Depth: 9,980

Date: 01/18/2022

NewFields

Client: Newmont CC&V Gold Company

Project: VLF2 P3 Stage A

Project No: 475.0106.053

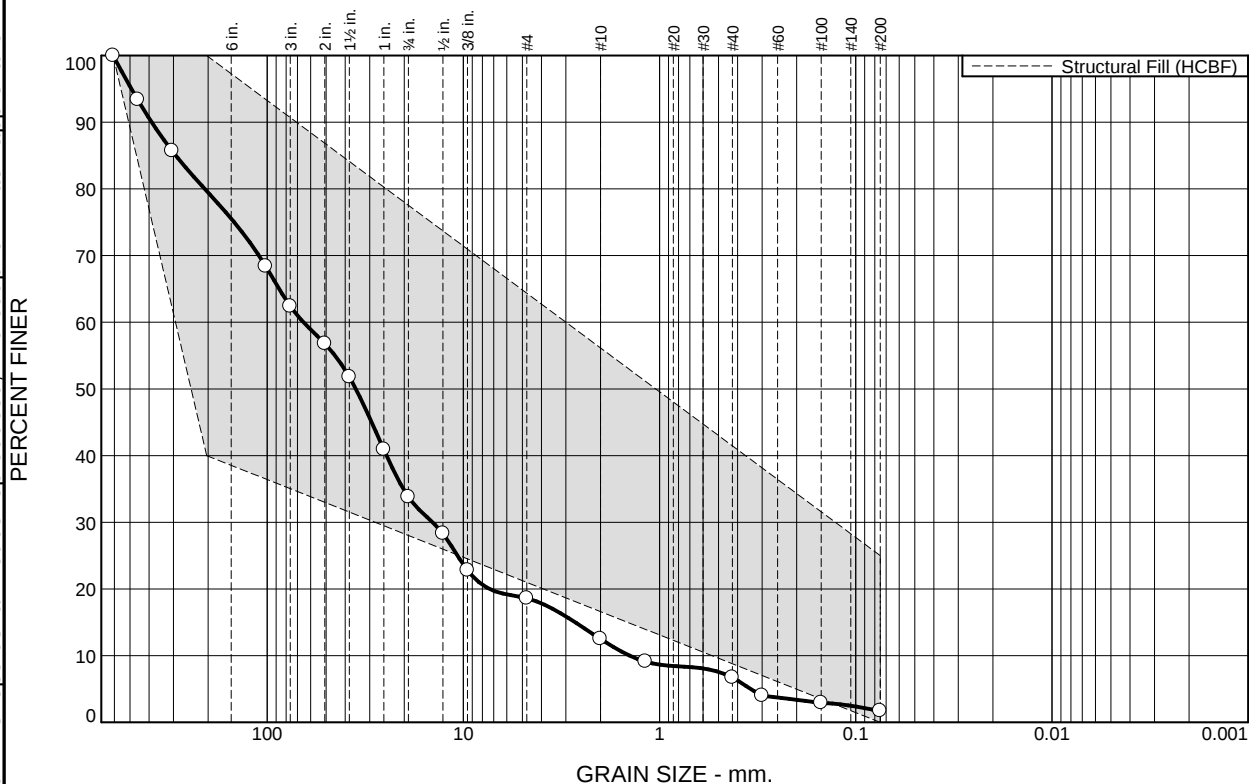
Figure HCBF-19-R

Tested By: TW

Checked By: TW

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

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
37.6	28.6	15.2	6.1	5.8	5.0	1.7	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
24"	100.0	100.0	
18"	93.4		
12"	85.7		
4"	68.4		
3"	62.4		
2"	56.8		
1.5"	51.8		
1"	40.9		
.75"	33.8		
.5"	28.3		
.375"	22.8		
#4	18.6		
#10	12.5		
#16	9.1		
#40	6.7		
#50	4.0		
#100	2.9		
#200	1.7		
		0.0 - 25.0	

* Structural Fill (HCBF)

Material Description

Reddish brown well-graded gravel with sand

Atterberg Limits

PL= 21 LL= 29 PI= 8

Coefficients

D₉₀= 387.4133 D₈₅= 291.9188 D₆₀= 65.2182
D₅₀= 35.2895 D₃₀= 14.3353 D₁₅= 2.6925
D₁₀= 1.4191 C_u= 45.96 C_c= 2.22

Classification

USCS= GW AASHTO= A-2-4(0)

Remarks

Location: N 59,300 E 35,280
Sample Number: HCBF-20-R

Depth: 9,995

Date: 02/04/2022

NewFields

Client: Newmont CC&V Gold Company
Project: VLF2 P3 Stage A

Project No: 475.0106.053

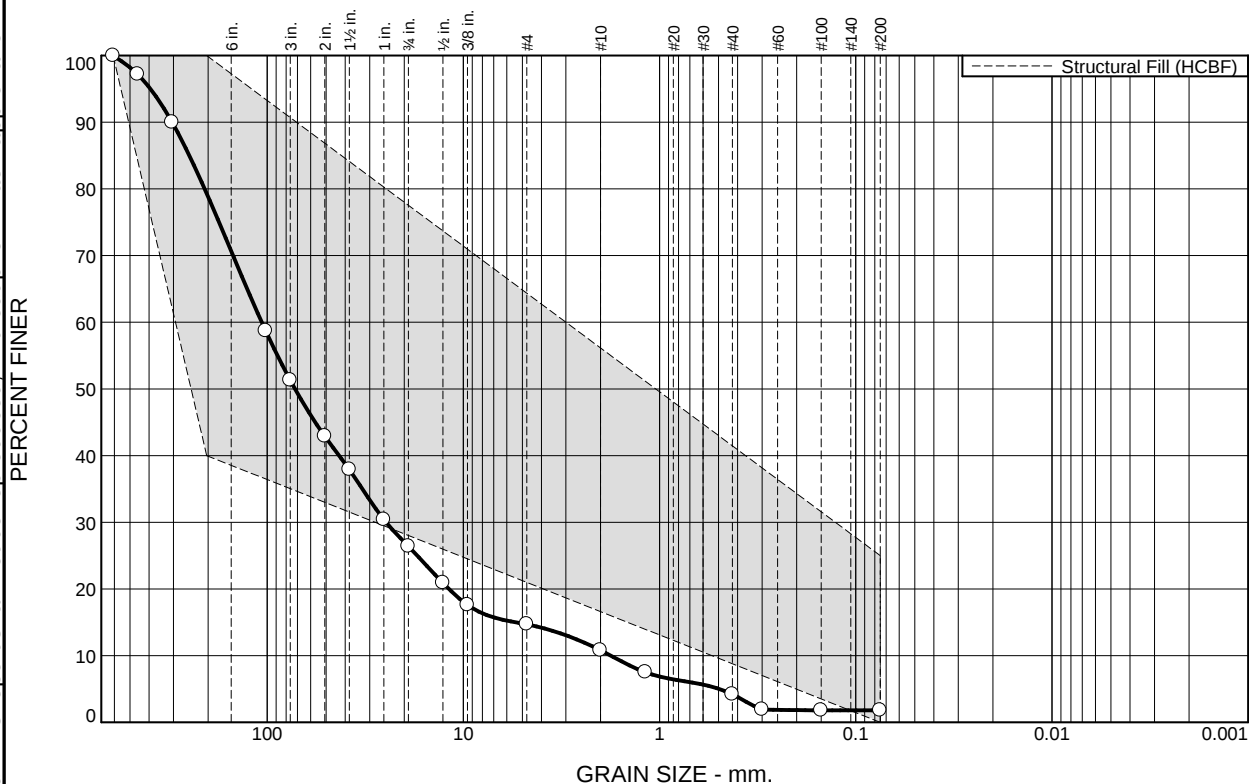
Figure HCBF-20-R

Tested By: TW

Checked By: TW

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

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
48.7	24.9	11.7	3.9	6.6	2.4	1.8	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
24"	100.0	100.0	
18"	97.2		
12"	90.0		
4"	58.7		
3"	51.3		
2"	42.9		
1.5"	37.9		
1"	30.4		
.75"	26.4		
.5"	20.9		
.375"	17.6		
#4	14.7		
#10	10.8		
#16	7.5		
#40	4.2		
#50	1.9		
#100	1.8		
#200	1.8	0.0 - 25.0	

* Structural Fill (HCBF)

Material Description

Light brown poorly graded gravel with sand

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D₉₀= 304.8000 D₈₅= 249.0419 D₆₀= 106.4246
D₅₀= 72.0513 D₃₀= 24.7636 D₁₅= 5.3912
D₁₀= 1.7737 C_u= 60.00 C_c= 3.25

Classification

USCS= GP AASHTO= A-1-a

Remarks

Location: N 59,520 E 35,120
Sample Number: HCBF-21-R

Depth: 10,000

Date: 02/07/2022



Client: Newmont CC&V Gold Company
Project: VLF2 P3 Stage A

Project No: 475.0106.053

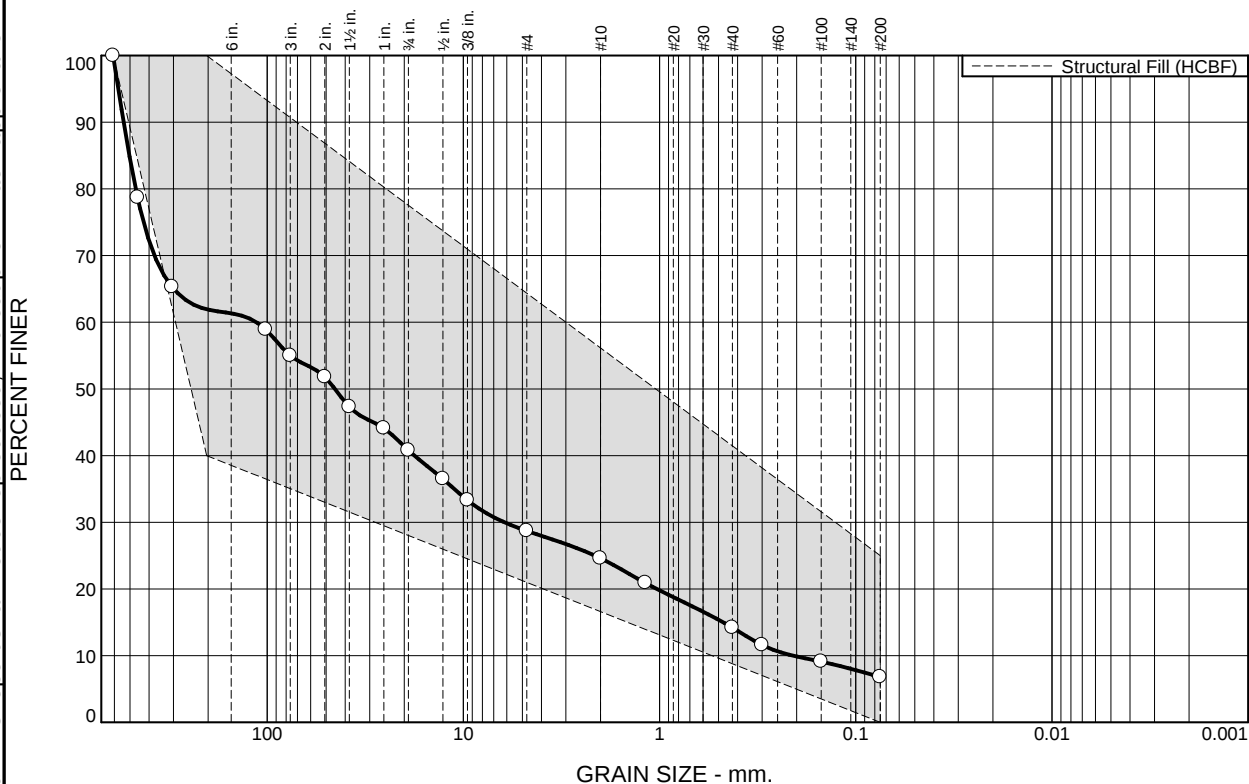
Figure HCBF-21-R

Tested By: TTW

Checked By: TW

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

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
45.0	14.2	12.1	4.1	10.4	7.4	6.8	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
24"	100.0	100.0	
18"	78.7		
12"	65.3		
4"	58.9		
3"	55.0		
2"	51.8		
1.5"	47.3		
1"	44.1		
.75"	40.8		
.5"	36.5		
.375"	33.3		
#4	28.7		
#10	24.6		
#16	20.9		
#40	14.2		
#50	11.6		
#100	9.1		
#200	6.8	0.0 - 25.0	

* Structural Fill (HCBF)

Material Description

Light brown silty gravel with sand

Atterberg Limits

PL= NP

LL= NV

PI= NP

Coefficients

D₉₀= 538.3218

D₈₅= 503.4675

D₆₀= 113.4007

D₅₀= 45.1241

D₃₀= 6.1811

D₁₅= 0.4736

D₁₀= 0.2092

C_u= 541.99

C_c= 1.61

Classification

USCS= GM

AASHTO= A-1-a

Remarks

Location: N 59,200 E 36,200
Sample Number: HCBF-23-R

Depth: 10,005

Date: 03/09/2022

NewFields

Client: Newmont CC&V Gold Company

Project: VLF2 P3 Stage A

Project No: 475.0106.053

Figure HCBF-23-R

Tested By: TW

Checked By: TW



Russell - DNR, Elliott <elliott.russell@state.co.us>

FW: VLF2, Phase 3 Certification Report Response to Comments - Revised Figure 6

Johnna Gonzalez <Johnna.Gonzalez@newmont.com>
To: "Russell - DNR, Elliott" <elliott.russell@state.co.us>

Thu, Sep 21, 2023 at 11:53 AM

Hi Elliott,

Please see the attached revised figure 6 for the VLF2, Phase 3 recertification response to comments. Let me know if you have any questions.

Thanks,



Johnna Gonzalez

ENVIRONMENTAL

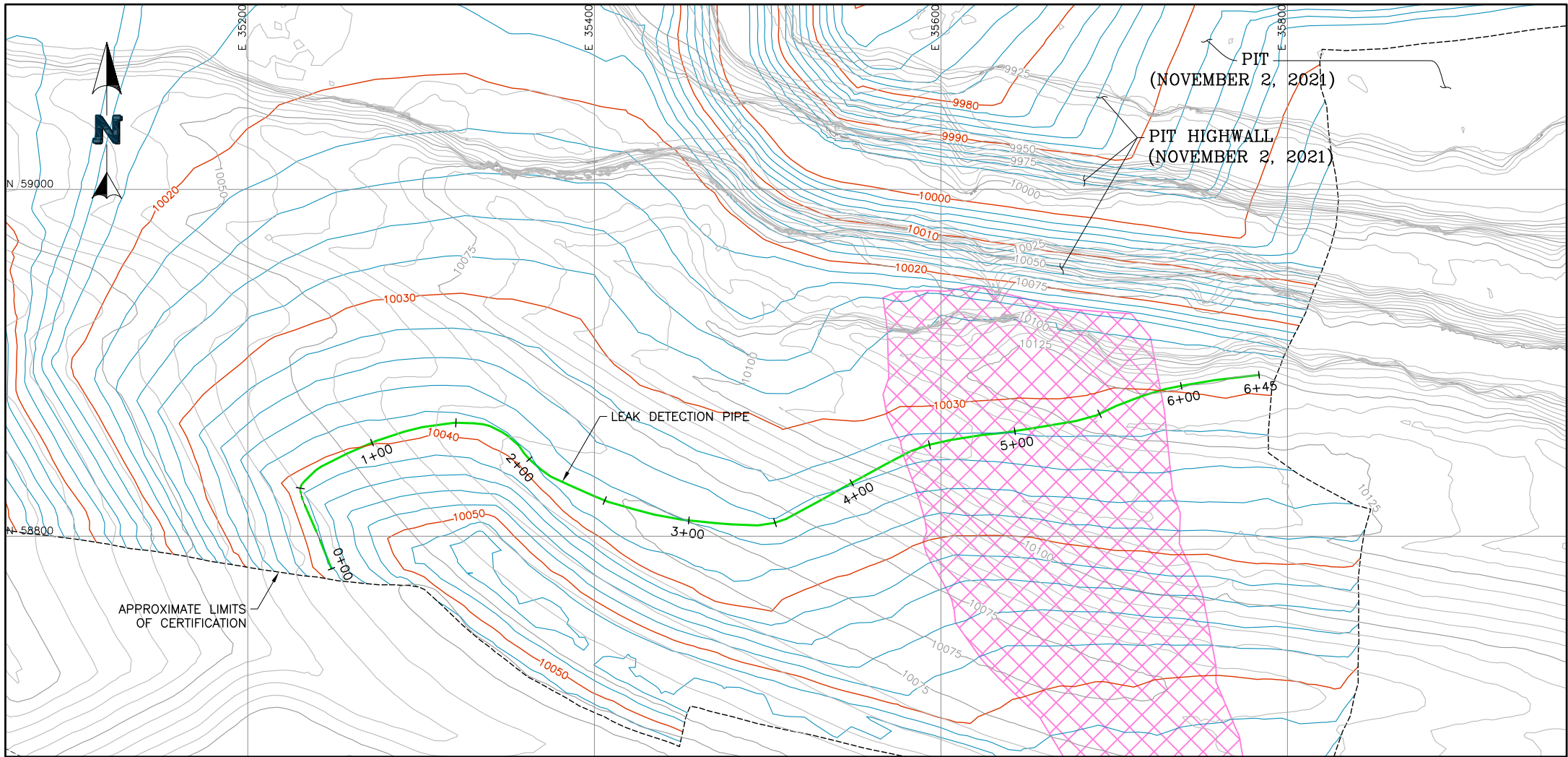
100 N 3rd Street
PO Box 191

Victor, CO 80860

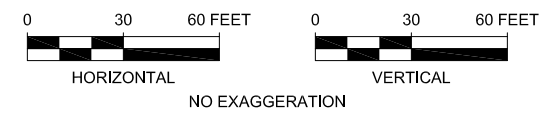
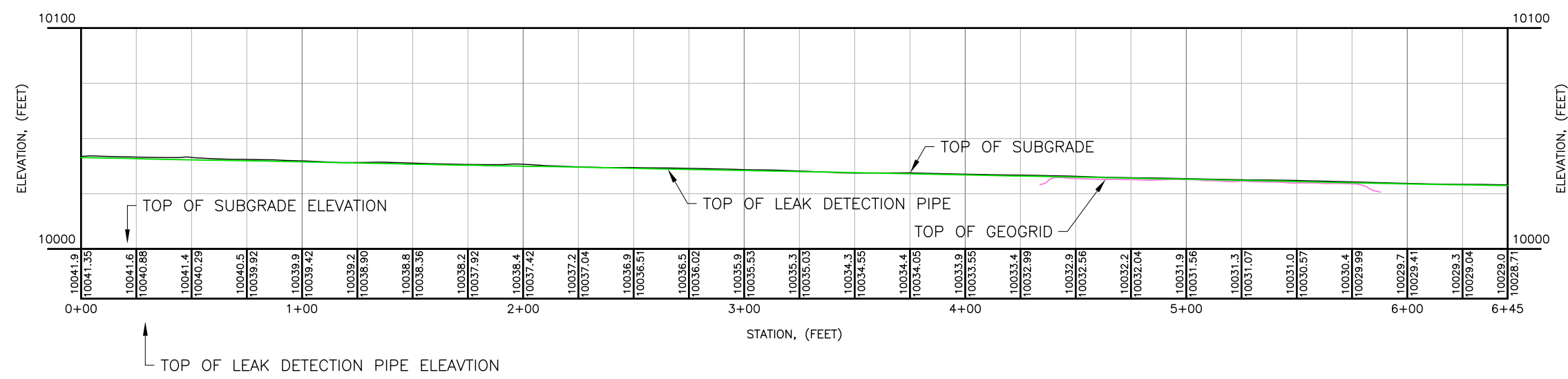
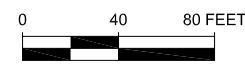
M 719.313.0447

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Figure 6.pdf
447K



- LEGEND:**
- NOVEMBER 2, 2021 GROUND CONTOURS
 - SUBGRADE AS-BUILT CONTOURS
 - LEAK DETECTION PIPE
 - LIMITS OF GEOGRID



 NewFields		CLIENT CRIPPLE CREEK & VICTOR GOLD MINING COMPANY	
PROJECT		VLF3 PHASE 3 STAAGE A.1	
TITLE	LEAK DETECTION TRENCH AS-BUILT PLAN AND PROFILE		FILENAME
			0106.056.098F
	FIGURE NO.	REVISION	
	6	0	

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