

VLF2 Phase 3 Schist Island Backfill

Low Compaction Fill SOP

Project Manager (Evan Fonger or designee) – Ultimately responsible for the quality of backfill placement. Acts as a liaison between all parties involved in the project to ensure ongoing communications are maintained between CC&V, the Engineer of Record (EoR) NewFields, Certifying Engineer (NewFields), and Project Engineer. Completes quarterly site visit and records review with EoR. Signs off on VLF2 Phase 3 Schist Island Backfill weekly report, monthly size distribution summary and quarterly site visit and records review.

Project Engineer Technical (Jeff Gaul or designee) Responsible for overseeing CQA aspects of the work; associated with the Certifying Engineer (NewFields). Reviews VLF2 Phase 3 Schist Island Backfill weekly report. Ensures backfilling progress is aligned with VLF2 Phase 3 permit requirements and construction schedule.

Senior Engineering Supervisor (Trevor Elenbaas or designee) Responsible for generating the VLF2 Phase 3 Low Compaction Zone DRMS weekly report. Review the Schist Island backfill activities. Provides the following for the VLF2 Phase 3 Low Compaction weekly report.

- Review backfill observation pictures and selects photos for the weekly report
- Compile and review mine operations foreperson backfill observations
- Indicate backfill progress on location map
- Analyze size distribution backfill photos and produces the monthly size distribution summary
- Provide Mine Star surfaces to mine operations for construction
- Provide a weekly progress topographic update
- Provide the Low Compaction Zone DRMS weekly report on end of business day Monday for the previous week. (Report duration Thursday through Wednesday)

Information is stored in file folder location

S:\CrippleCreek\na.cc.engineering\140_Projects\2021\01_Schist Island Phase 1 Backfill.

Mine Operations Foreperson (Shift Supervisor or designee) Responsible for backfill observations and ensures that material placement is performed in accordance with the Low Compaction Fill Criteria. Records the following information for each shift.

- Takes a minimum of 2 backfill progress photos per shifts. The photos should be representative of the material being placed during the shift.
- Records temperature (Poverty Gulch Weather Station)
- Records precipitation observation, Yes or No
- Provides backfilling observations and comments on backfill material, backfill size distribution and maintaining backfill lift height

Reports will be sent to tech services SRP group on a shift by shift basis and will be stored in the file folder location S:\CrippleCreek\na.cc.mine\Operations\ShiftReport.

Voids Supervisor (Nick Mendoza) Responsible for the void remediation plan and documentation. (SOP available soon)

Training (Brian Crawford/ Mike McCain or designee) Responsible to provide training based for a select group of operators to assess the size distribution of the backfill based on EoR (NewField)

guidelines. The operator will have the authority and responsibility to reject backfill that does not meet the visual specification of less than 5 foot (60 inches). Mine Operations will manage and store training records. (Training SOP available soon)

Low Compaction Fill Criteria

- 1. Areas to receive Low Compaction Fill will include, but are not limited to, backfilling existing pits to within a minimum 35 feet of the proposed geomembrane surface.
- 2. Low Compaction Fill material shall be overburden waste placed in 20 foot lifts with a maximum 25-foot lift thickness. The lifts will be compacted with a minimum of two passes using a loaded 793 haul truck or a loaded water truck.
- 3. Maximum rock size for overburden fill shall be 5 feet (60 inches).
- 4. Prior to commencement of Low Compaction Fill, select mine operators shall complete task training to ensure that material meeting the specification is borrowed and placed. This training will include visually identifying oversized material and visually verifying that the material being loaded and placed is reasonably graded to avoid placement of gap graded material with excessive voids. Training guidelines will be provided by the EoR (NewFields).

Backfill size distribution Requirement

U.S. Standard Sieve Size	Allowable Percent Passing by Dry Weight
60– inch	100%
36-inch	80-100%
3-inch	40 -100%

Weekly Report Example



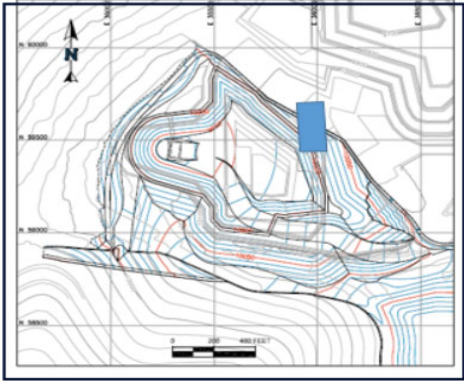
Newmont CC&V
VLF 2 Phase 3 Low Compaction Zone
DRMS Weekly Report

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Function: SBER
Effective Date: 04/01/21
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1. **SHIFT REPORTS:** To be filled out only on days when Shifter checks the process of the fill.

Report Period: Thursday-Wednesday	Ambient Temperature		Weather Conditions
	High	Low	Precipitation
Date: 6/10/21 – 6/16/21	79	43	None
Observations & Comments	All material reported to be 3-4 ft minus. Fill area was a ramp, filled in 2 lifts. First lift was 20-ft, second lift was 15-ft.		

2. **AREA OF BACKFILL:** Full dump progression maps, shading the approximate areas where backfill is being placed.





Newmont CC&V
VLF 2 Phase 3 Low Compaction Zone
DRMS Weekly Report

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3. ACTIVE BACKFILL AREA PHOTOGRAPH:



4. PHOTOGRAPHIC GRAIN SIZE ANALYSIS: Completed first week of each month for the month prior. For example: Completed first week of March for month of February.

U.S. Standard Sieve Size	Allowable Percent Passing by Dry Weight	Passing by Dry Weight
60-inch	100%	
36-inch	80-100%	
3-inch	40-100%	

EoR Quarterly Data and Monthly Size Distribution Review

The project manager (Evan Fonger or designee) will provide EoR (NewFields) the VLF2 Phase 3 weekly reports, backfill size distribution data, backfill progress photos and dozer file surveys for quarterly review. The size distribution summary will be reviewed monthly. The EoR will review the information and provide comments.

Xanthate Mixing SOP 701-800



Schist Iland Backfill Low Compaction
Standard Operating Procedure

Sustainability & External Relations

Department	THIS DOCUMENT IS UNCONTROLLED IN HARDCOPY FORMAT		Doc Id: NA-CCV-SER-SOP-3394
S&ER	Date of This Issue: August 3, 2021	Date of Next Review: August 3, 2026	Page 5 of 5

I hereby acknowledge receipt of the Newmonts Ready Line and Queue Point SOP

I will read and operate according to the procedures listed in this document

Paul Hoyt
Employee Name

10012441
Employee #

Paul Hoyt
Employee Signature

9/4/21
Date

I hereby acknowledge receipt of the Newmonts Ready Line and Queue Point SOP

I will read and operate according to the procedures listed in this document

Bill Sullivan

Employee Name

30011371

Employee #

[Signature]

Employee Signature

9.3.21

Date



Low Compaction Back Fill Requirements

MINING SURFACE

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Adam Tollis
Employee Name


Employee Signature

30010204
Employee #

9/4/21
Date

I hereby acknowledge receipt of the Newmonts Ready Line and Queue Point SOP

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John MAZINS

Employee Name

John Mazins

Employee Signature

10018246

Employee #

4 sept. '21

Date

I hereby acknowledge receipt of the Newmonts Ready Line and Queue Point SOP

I will read and operate according to the procedures listed in this document

Bradley Thelen

Employee Name

[Signature]

Employee Signature

19006498

Employee #

9-4-21

Date

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Trevor Fast

Employee Name

[Signature]

Employee Signature

10027241

Employee #

9-4-21

Date

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Scott Orth

Employee Name

Scott Orth

Employee Signature

30006698

Employee #

9-4-2021

Date

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Dusty Weinheimer
Employee Name

Dusty Weinheimer
Employee Signature

30010403
Employee #

9-4-21
Date

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Brenden Pratt

Employee Name

[Signature]

Employee Signature

10015051

Employee #

8-4-21

Date

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Joey Sanchez

Employee Name

[Signature]

Employee Signature

30010587

Employee #

9/4/2021

Date

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Jim Zarr
Employee Name

30010449
Employee #

Jim Zarr
Employee Signature

9-4-21
Date

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Charles R. Morrison

Employee Name

3DD10095

Employee #

Reed Morrison

Employee Signature

9-4-21

Date

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ROBERT TOVAR

Employee Name

10026563

Employee #

ROBERT A. TOVAR

Employee Signature

9-4-21

Date

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Maudie Conley
Employee Name

Maudie Conley
Employee Signature

19006497
Employee #

9-4-21
Date

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Anthony Bozen

Employee Name



Employee Signature

10027243

Employee #

9/4/2021

Date

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KURT LOSS

Employee Name

[Signature]

Employee Signature

10028122

Employee #

9-4-21

Date

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Toni Tomei

Employee Name

10011049

Employee #

9/4/2021

Date

Employee Signature

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Cory Crook
Employee Name

Cory Crook
Employee Signature

10011163
Employee #

9-4-21
Date

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Justin Shroff

Employee Name

Justin Shroff

Employee Signature

30010103

Employee #

9-4-21

Date

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Norb Gasnik

Employee Name

[Signature]

Employee Signature

30010726

Employee #

9-4-21

Date

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Wesley Lindh

Employee Name

19000534

Employee #



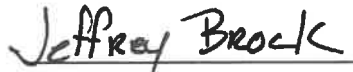
Employee Signature

04 Sep 2021

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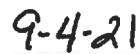
Employee Name



Employee #



Employee Signature



Date

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Dennis Furness

Employee Name

30010598

Employee #

Dani Fung

Employee Signature

9-4-21

Date

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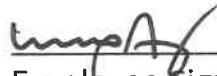
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LIVE ROBERTS

Employee Name

19002593

Employee #



Employee Signature

09/07/2021

Date

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Bob DuBois

Employee Name

30010/06

Employee #

Bob DuBois

Employee Signature

9/4/21

Date

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Russ Woodley
Employee Name

Russ Woodley
Employee Signature

19003082
Employee #

09-03-21
Date

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A. Bowman

Employee Name

A. Bowman

Employee Signature

30010419

Employee #

7.3.21

Date

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Tin Skottgaard
Employee Name

Tin Skottgaard
Employee Signature

30010423
Employee #

9-3-21
Date

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Donk Lope

Employee Name

[Signature]

Employee Signature

19006499

Employee #

9-4-21

Date

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Bryan R Manley

Employee Name

10026561

Employee #

Bryan R Manley

Employee Signature

9/3/2021

Date

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Wesley K. Vandover
Employee Name

10011542
Employee #

Wesley K. Vandover
Employee Signature

9/3/21
Date

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Michael L. Sander

Employee Name

[Signature]

Employee Signature

19005156

Employee #

9-3-21

Date

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Jeremiah Platt

Employee Name



Employee Signature

30010233

Employee #

9/3/21

Date

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andrea rosley
Employee Name
[Signature]
Employee Signature

10019139
Employee #
9-4-2021
Date

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Juergen Badler
Employee Name

[Signature]
Employee Signature

30010455

Employee #

9.4.21

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RICHARD SMITH

Employee Name

Richard Smith

Employee Signature

02006535

Employee #

9-3-21

Date

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Nate Barrett
Employee Name

19000533
Employee #

NJB
Employee Signature

9-3-21
Date

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Craig Salbato

Employee Name

[Signature]

Employee Signature

10008665

Employee #

Sept 3, 2021

Date

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Terry Dew
Employee Name

[Signature]
Employee Signature

1002 7337
Employee #

9-3-21
Date

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Beva H. Meyer

Employee Name

[Signature]

Employee Signature

10017940

Employee #

9-3-2021

Date

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Trevor Summer
Employee Name

[Signature]
Employee Signature

30010499
Employee #

9/3/21
Date

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Nick Potter
Employee Name

[Signature]
Employee Signature

30010265
Employee #

9-4-21
Date

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Employee Name

Employee #

Employee Signature

Date

Lance Schoendatter

2/11/2011