



Environmental Department

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SENT CERTIFIED, RETURN RECEIPT REQUESTED  
7014-2870-0001-3417-6685

November 19, 2015

Mr. Timothy Cazier  
Environmental Protection Specialist  
Colorado Department of Natural Resources  
Division of Reclamation, Mining and Safety  
Office of Mined Land Reclamation  
1313 Sherman Street, Room 215  
Denver, Colorado 80203

RECEIVED

NOV 23 2015

DIVISION OF RECLAMATION  
MINING AND SAFETY

Reference: Cripple Creek & Victor Gold Mining Company,  
Cresson Project Squaw Gulch (VLF)

Subject: Weekly Construction Quality Assurance ("CQA") Report:  
AMEC: Squaw Gulch (VLF) – Weeks ending 10/17/15, 10/24/15 and 10/31/15.

Dear Mr. Cazier:

Cripple Creek & Victor Gold Mining Company ("CC&V") is hereby providing the revised weekly Construction activity and Progress report prepared by AMEC, reporting the CQA services performed for the Squaw Gulch (VLF), Construction during the weeks ending October 17, 2015, October 24, 2015 and October 31, 2015.

Should you have any questions, please do not hesitate to contact me at (719) 689-4056.

Sincerely,

Marc Tidquist  
Senior Environmental Coordinator

Enclosures: AMEC Squaw Gulch (VLF), Monitoring Summary (Weekly Report). Weeks ending 10/17/15, 10/24/15 and 10/31/15.

SCANNED

**CRIPPLE CREEK & VICTOR GOLD MINING Co.  
ANGLOGOLD ASHANTI (COLORADO)  
SQUAW GULCH (VLF) WEEKLY REPORT**



<b>Owner:</b>	Cripple Creek & Victor Gold Mining Co.	<b>Project Number:</b>	74201125N0
<b>Project:</b>	Squaw Gulch Valley Leach Fill (VLF)	<b>Week Ending:</b>	October 17, 2015
<b>Location:</b>	Cripple Creek & Victor Gold Mine, CO		
<b>Contractor:</b>	Ames Construction, Inc.		

**Reporting Period: 10.11.2015 through 10.17.2015**

Days	S	M	T	W	T	F	S
Work Shifts		D	D	D	D	D	D
D=Day Shift      N=Night Shift      W= Weather							

Ambient Temperature Ranges During Week	Weather Conditions During Week:
Highs: 58°F to 66°F	Cloud Cover: Partly Cloudy to Mostly Cloudy
Lows: 30°F to 44°F	Precipitation: Rain
	Wind: Calm to moderate

**Ames:** Continuing construction tasks for the Valley Leach Facility (VLF).

**Planning:** Continuing construction activities and scheduling for the VLF.

**CONSTRUCTION ACTIVITIES AND PROGRESS:**

**I) Earthworks**

**\*\*** Amec Foster Wheeler field professional monitored fill material temperatures during fill placement. Average temperatures were above 32°F. All construction materials placed were verified as suitable, and construction methods were in accordance with project technical specifications. **\*\***

**A) VLF (PSSA, Phase 1, and 2)**

**Structural Fill:**

The following Structural Fill haul to fill and grading activities occurred:

A Cat excavator loaded Cat 740 haul trucks with spoils from station H29+00. The material was transported to fill locations between stations H23+00 and H24+00. A Cat dozer placed the Structural Fill and a Cat smooth drum roller compacted the fill area.

A Cat loader and a Cat dozer placed Structural Fill at station F18+00. A Cat smooth drum roller compacted the fill area.

CC&V hauled material to the Dump 4 surge in Phase 2 using Cat 793 haul trucks. A Cat dozer placed the Structural Fill between stations N20+00 and N22+00. A Cat smooth drum roller compacted the fill area.

All of the above Structural Fill material was placed, compacted, and graded per the project plans and specifications.

**CRIPPLE CREEK & VICTOR GOLD MINING Co.  
ANGLOGOLD ASHANTI (COLORADO)  
SQUAW GULCH (VLF) WEEKLY REPORT**



**Subgrade:**

Phase 1 areas dozed to finished grade were compacted per project plans and specifications. See attached figure for approved subgrade.

**Soil Liner Fill:**

A Cat smooth drum roller, a Cat excavator and a water truck conditioned and compacted SLF prior to geomembrane deployment.

Two Cat smooth drum rollers (connected by cable to thrust block) and a Cat excavator with a smooth drum roller attachment compacted SLF below stations HM6+00 to HM10+00. Cat dozers placed SLF above stations FM3+00 to FM6+00. A Cat dozer placed SLF in the vicinity of station F28+00.

Cat 740 haul trucks transported SLF from the Cameron to station H6+00. A Cat dozer continued building an SLF road along the H Bench. Cat dozers placed SLF below stations H6+00 to H10+00.

Cat 777 and Cat 740 haul trucks transported SLF from the Cameron to station L4+00. SLF was stockpiled on the L Bench.

Cat 740 haul trucks transported SLF from the Cameron to station F26+00. A Cat dozer continued building an SLF road between stations F26+00 to F28+00.

Cat smooth drum rollers (connected by cable to thrust block) compacted SLF below stations HM6+00 to HM8+00. Cat dozers placed SLF above stations FM0+00 to FM4+00. A Cat smooth drum roller compacted SLF below stations HM3+00 to HM7+00.

Cameron SLF processing continued.

All of the above Soil Liner Fill material was placed, graded, and compacted per the project plans and specifications. Moisture content, density testing and depth verification were performed per project specification prior to surface acceptance and geomembrane installation.

See attached figure for approved SLF.

**Drain Cover Fill:**

Cat 740 haul trucks transported DCF from the stockpile to Phase 1. Low ground pressure Cat dozers placed DCF on approved geomembrane in Phase 1.

See attached figure for approved DCF.

**Spent Ore Fill:**

A Cat D9 dozer continued placement of Spent Ore to engulf the open water in the PSSA prior to scheduled loading of Crushed Ore in the Fourth Quarter 2015.

**Crushed Ore Fill:**

Cat 793 haul trucks delivered Crushed Ore between stations 23+00 to 33+00 of the ADR haul road. The Crushed Ore was used to continue construction of the 20' haul road for access to the PSSA.

**CRIPPLE CREEK & VICTOR GOLD MINING Co.  
ANGLOGOLD ASHANTI (COLORADO)  
SQUAW GULCH (VLF) WEEKLY REPORT**



**Underdrain System:**

**Primary Underdrain:** Complete.

**Secondary Underdrain:** None.

**Tertiary Underdrain:** None.

**Leak Detection:**

A Cat excavator prepared approximately 200 LF of leak detection trench between stations F26+00 to F28+00. A Cat skidsteer assisted in constructing and backfilling leak detection per project plans and specifications.

**Miscellaneous:**

Amec personnel continued LVSCS pump monitoring and observation.

**Geomembrane:**

Geomembrane installation within Phase 1 continued this week performing deployment, seaming, repair, and QA/QC activities. Approximately 275,952 square feet of 80mil LLDPE geomembrane was deployed. Soil Liner Fill was inspected and approved by AMEC, Ames and ECA representatives prior to geomembrane deployment. Approximately 13,243 linear feet of seam was fusion welded during deployment using one or two fusion welding machines for each day of deployment. Approximately 1,239 linear feet of seam was extrusion welded during deployment. Destructive and non-destructive testing was completed in compliance with project technical specifications.

Ames continuously excavated anchor trench ahead of geomembrane installation. After geomembrane testing was completed, the anchor trench above finished panels was backfilled and compacted per project specifications.

See attached figure for approved geomembrane.

**II) Storm Water Management**

Best Management Practices (BMPs) continued to be performed.

**CRIPPLE CREEK & VICTOR GOLD MINING Co.  
ANGLOGOLD ASHANTI (COLORADO)  
SQUAW GULCH (VLF) WEEKLY REPORT**



**CQA ACTIVITIES:**

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**I) Field Activities:**

The following activities were observed: Placement and compaction of the Phase 1 Structural Fill materials; subgrade acceptance; placement, compaction, density testing, depth verification and acceptance of Soil Liner Fill materials; geomembrane installation and acceptance; Drain Cover Fill placement; Spent Ore grading in PSSA; and pump monitoring at the LVSCS riser pipes.

**II) Laboratory Activities:**

Concrete testing (ADR2), atterberg limits, moisture, compaction, permeability and sieve analysis testing continued.

The following samples were collected:   Phase 1 – Soil Liner Fill; 1-SLF-47-R  
  Phase 1 – Soil Liner Fill; 1-SLF-48-R  
  Cameron – Soil Liner Fill; SLF-198-C

**General Project Items**

**Meetings and Discussions:**

The Weekly Contractor Meeting was held October 13, 2015 (Amec Foster Wheeler, CC&V, Ames). Amec Foster Wheeler and CC&V discussed the barren pipeline corridor immediately following the Weekly Contractor Meeting.

- Ames daily safety meetings
- Amec Foster Wheeler daily safety meetings

**Summary of Concerns:** None.

**CC&V:** Daily updates, reporting, and scheduling occurred between CC&V Projects, Amec Foster Wheeler, and Ames.

**Deliveries:** ECA received 36 rolls of 80-mil LLDPE textured geomembrane.

**CQA Monitor**

**Submitted by:**  
Bobby Redd, EI  
Project Resident

A handwritten signature in black ink, appearing to read "BRedd", written over a horizontal line.

**Date:** October 21, 2015

**Reviewed by:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**CC&V Projects  
Reviewed By:**

A handwritten signature in black ink, appearing to be a stylized name, written over a horizontal line.

**Date:** 10/30/15

**Reviewed By:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**CRIPPLE CREEK & VICTOR GOLD MINING Co.  
ANGLOGOLD ASHANTI (COLORADO)  
SQUAW GULCH (VLF) WEEKLY REPORT**



**ATTACHMENT A**

**Amec Foster Wheeler - 2015 CQA Field Staff Schedule MLE2**

Name	Sun	Mon	Tues	Wed	Thurs	Fri	Sat
	Oct 11	Oct 12	Oct 13	Oct 14	Oct 15	Oct 16	Oct 17
Bobby Redd		PR	PR	PR	PR		
Eric Lorenson		LT	LT	LT	LT	LT	LT
Ben Melly		GL	GL	GL	GL	GL	GL
Rex Harrison		WI	WI	WI	WI	WI	WI
Steve Rice		ST	ST	ST	ST	ST	
Tyler Browning							
Rick Buxton		ST	ST	ST	ST	ST	ST
Shawn Wisely		ST	ST	GT	ST	ST	ST
Alfonso Frias		GT	GT	GT		GT	GT
Madeline Tarasar		ST	ST		ST	ST	ST
Josue Rodriguez					ST	ST	ST
David Woolley		GT	GT	GT	GT	GT	GT
Samantha Connor				ST	ST		
Bob Flesher		ST	ST	ST	ST	ST	ST
Andrea Meduna			PE				

**LEGEND:**

UM = Unit Manager  
 PM = Project Manager  
 PCE = Project Certifying Engineer  
 PE = Project Engineer  
 PR = Project Resident  
 LG = Lead Geosynthetics Engineer  
 LS = Lead Soils Technician  
 ST = Soil Technician  
 LT = Laboratory Technician  
 GL = Geosynthetics Lead  
 GT = Geosynthetics Technician  
 FLM= Field/Laboratory Manager  
 UG = Underground Working Remediation  
 SE = Senior Engineer  
 GS = Geophysics Survey Geologist  
 HY = Highway Design Engineer  
 WI = Welding Inspector



**CRIPPLE CREEK & VICTOR GOLD MINING Co.  
ANGLOGOLD ASHANTI (COLORADO)  
SQUAW GULCH (VLF) WEEKLY REPORT**



**Photographs of Activities**



**Phase 1 – SLF placement.**



**Phase 1 – Leak Detection installation.**



**CRIPPLE CREEK & VICTOR GOLD MINING Co.  
ANGLOGOLD ASHANTI (COLORADO)  
SQUAW GULCH (VLF) WEEKLY REPORT**



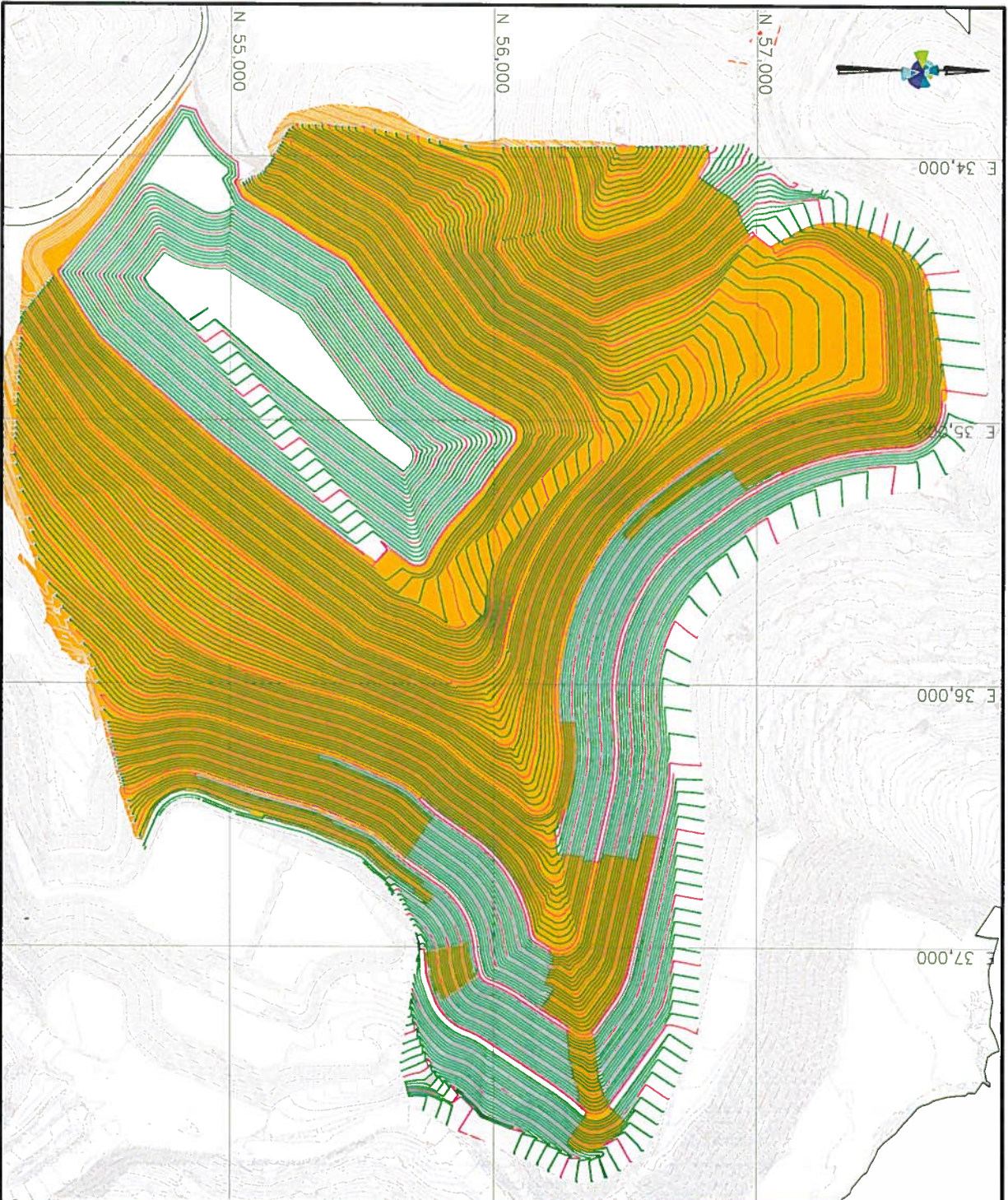
PSSA – Spent Ore grading.



Phase 1 – DCF placement.



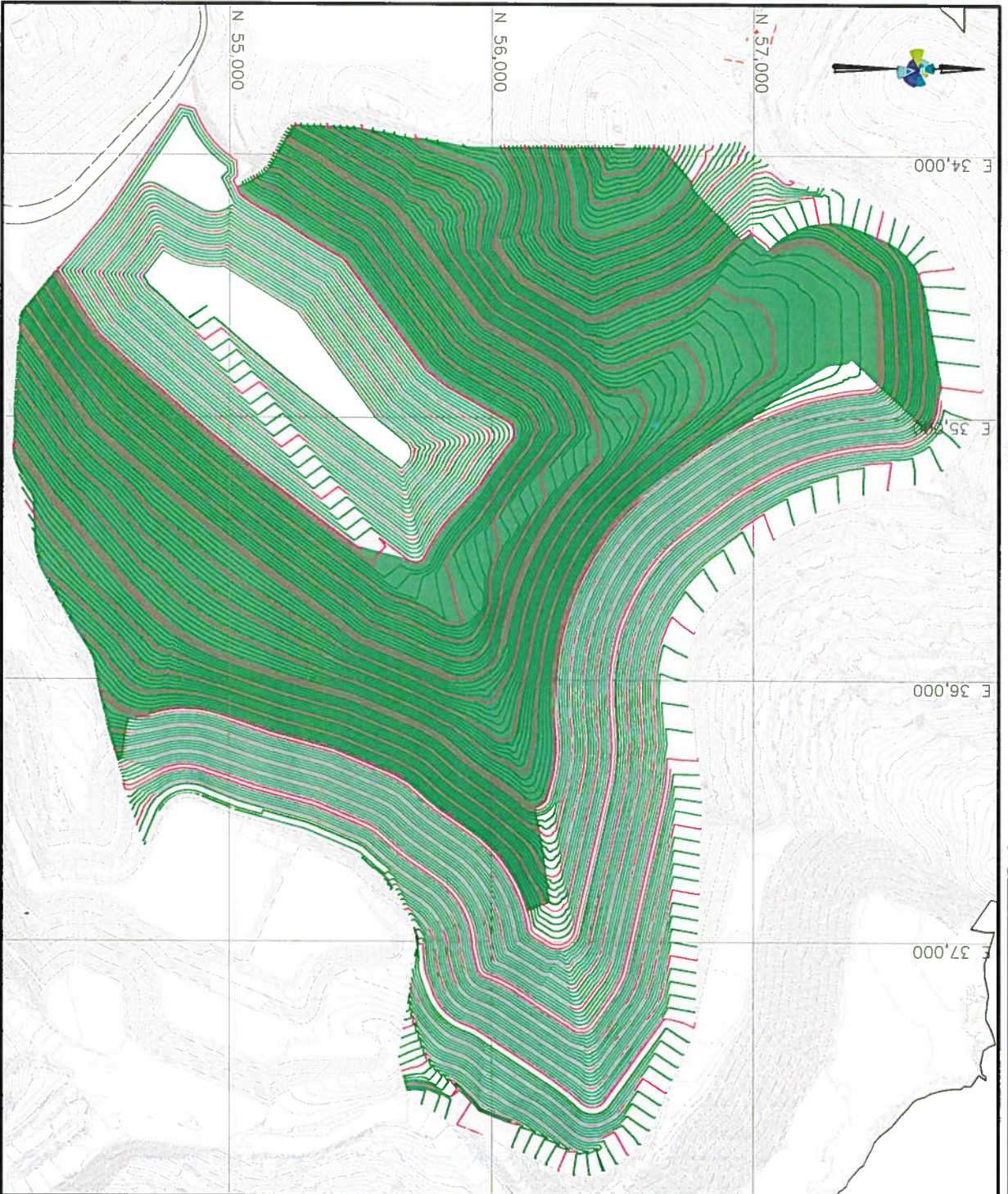
**LEGEND**  
 SUBGRADE ACCEPTANCE AREA



CHK BY RBR	CLIENT CRIPPLE CREEK & VICTOR MINING COMPANY	ISSUED DATE 10/21/15
APR BY ALM	PROJECT SQUAW GULCH VALLEY LEACH FACILITY	PROJECT No. 74201125N0
DRN BY RBR	TITLE WEEKLY ACCEPTANCE AREAS WEEK ENDING 10-17-15	FIGURE No. 1
DSN BY RBR		REV 0



**LEGEND**  
 SLF ACCEPTANCE AREA



CHK BY	RBR
APR BY	ALM
DRN BY	RBR
DSN BY	RBR

CLIENT	CRIPPLE CREEK & VICTOR MINING COMPANY
PROJECT	SQUAW GULCH VALLEY LEACH FACILITY
TITLE	WEEKLY ACCEPTANCE AREAS WEEK ENDING 10-17-15

ISSUED DATE	10/21/15
PROJECT No.	74201125NO
FIGURE No.	1
REV	0





LEGEND

ACCEPTANCE AREA




CHK BY RBR	CLIENT CRIPPLE CREEK & VICTOR MINING COMPANY	ISSUED DATE 10/21/15
APR BY ALM	PROJECT SQUAW GULCH VALLEY LEACH FACILITY	PROJECT No. 74201125NO
DRN BY MGC	TITLE WEEKLY LINER ACCEPTANCE 10/17/15	FIGURE No. 1
DSN BY RBR		REV 0



**LEGEND**  
DCF ACCEPTANCE AREA



	
CHK BY RBR	CLIENT CRIPPLE CREEK & VICTOR MINING COMPANY
APR BY ALM	PROJECT SQUAW GULCH VALLEY LEACH FACILITY
DRN BY RBR	TITLE WEEKLY ACCEPTANCE AREAS WEEK ENDING 10-17-15
DSN BY RBR	ISSUED DATE 10/21/15
PROJECT No. 74201125N0	
FIGURE No. 1	REV 0

**CRIPPLE CREEK & VICTOR GOLD MINING Co.  
ANGLOGOLD ASHANTI (COLORADO)  
SQUAW GULCH (VLF) WEEKLY REPORT**



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<b>Owner:</b>	Cripple Creek & Victor Gold Mining Co.	<b>Project Number:</b>	74201125N0
<b>Project:</b>	Squaw Gulch Valley Leach Fill (VLF)	<b>Week Ending:</b>	October 24, 2015
<b>Location:</b>	Cripple Creek & Victor Gold Mine, CO		
<b>Contractor:</b>	Ames Construction, Inc.		

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**Reporting Period: 10.18.2015 through 10.24.2015**

Days	S	M	T	W	T	F	S
Work Shifts		D	D	D	D	D	D
D=Day Shift		N=Night Shift		W= Weather			

Ambient Temperature Ranges During Week	Weather Conditions During Week:
Highs: 39°F to 52°F	Cloud Cover: Partly Cloudy to Mostly Cloudy
Lows: 26°F to 39°F	Precipitation: Rain/Snow
	Wind: Calm to moderate

**Ames:** Continuing construction tasks for the Valley Leach Facility (VLF).

**Planning:** Continuing construction activities and scheduling for the VLF.

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**CONSTRUCTION ACTIVITIES AND PROGRESS:**

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**I) Earthworks**

**\*\*** Amec Foster Wheeler field professional monitored fill material temperatures during fill placement. Average temperatures were above 32°F. All construction materials placed were verified as suitable, and construction methods were in accordance with project technical specifications. **\*\***

**A) VLF (PSSA, Phase 1, and 2)**

**Structural Fill:**

The following Structural Fill haul to fill and grading activities occurred:

A Cat loader and a Cat dozer placed Structural Fill at station F18+00. A Cat dozer graded slopes above stations F14+00 to F19+00. A Cat smooth drum roller compacted the fill area.

A Cat dozer graded slopes in the vicinity of stations H11+00 to H13+00.

Cat dozers prepared subgrade in the vicinity of station H22+00 to H24+00.

CC&V hauled material to the Dump 4 surge in Phase 2 using Cat 793 haul trucks. A Cat dozer placed the Structural Fill between stations N20+00 and N22+00. A Cat smooth drum roller compacted the fill area.

All of the above Structural Fill material was placed, compacted, and graded per the project plans and specifications.



**CRIPPLE CREEK & VICTOR GOLD MINING Co.  
ANGLOGOLD ASHANTI (COLORADO)  
SQUAW GULCH (VLF) WEEKLY REPORT**



**Subgrade:**

Phase 1 areas dozed to finished grade were compacted per project plans and specifications.  
See attached figure for approved subgrade.

**Soil Liner Fill:**

A Cat smooth drum roller, a Cat excavator and a water truck conditioned and compacted SLF prior to geomembrane deployment.

Cat 777 haul trucks transported SLF from the Cameron to station L4+00 and J0+00. SLF was stockpiled on the L Bench and the J Bench. A Cat dozer constructed a temporary SLF road between stations L4+00 and H29+00.

Cat 740 haul trucks transported SLF from the Cameron to station H8+00. Cat dozers placed SLF above stations F8+00 to F12+00. A Cat excavator with roller attachment compacted the SLF surface.

Cat dozers placed SLF above stations F10+00 to F14+00. Two Cat smooth drum rollers (connected by cable to thrust block) compacted SLF below stations H2+00 to H4+00.

Cat 740 haul trucks transported SLF to station 63+00 of the ADR Haul Road. A Cat dozer constructed a temporary SLF road towards station H14+00. Cat dozers placed SLF between stations H6+00 to H8+00. A Cat excavator reworked the bench in the vicinity of station H16+00.

Cameron SLF processing continued.

All of the above Soil Liner Fill material was placed, graded, and compacted per the project plans and specifications. Moisture content, density testing and depth verification were performed per project specification prior to surface acceptance and geomembrane installation.

See attached figure for approved SLF.

**Drain Cover Fill:**

Cat 740 haul trucks transported DCF from the stockpile to Phase 1. Low ground pressure Cat dozers placed DCF on approved geomembrane in Phase 1.

See attached figure for approved DCF.

**Spent Ore Fill:**

A Cat dozer continued placement of Spent Ore to engulf the open water in the PSSA prior to scheduled loading of Crushed Ore in the Fourth Quarter 2015.

**Crushed Ore Fill:**

Cat 793 haul trucks delivered Crushed Ore between stations 18+00 to 23+00 of the ADR haul road. The Crushed Ore was used to continue construction of the 20' haul road for access to the PSSA.



**CRIPPLE CREEK & VICTOR GOLD MINING Co.  
ANGLOGOLD ASHANTI (COLORADO)  
SQUAW GULCH (VLF) WEEKLY REPORT**



**Underdrain System:**

**Primary Underdrain:** Complete.

**Secondary Underdrain:** None.

**Tertiary Underdrain:** None.

**Leak Detection:**

None.

**Miscellaneous:**

Amec personnel continued LVSCS pump monitoring and observation.

**Geomembrane:**

Geomembrane installation within Phase 1 continued this week performing deployment, seaming, repair, and QA/QC activities. Approximately 79,535 square feet of 80mil LLDPE geomembrane was deployed. Soil Liner Fill was inspected and approved by AMEC, Ames and ECA representatives prior to geomembrane deployment. Approximately 4,023 linear feet of seam was fusion welded during deployment using one or two fusion welding machines for each day of deployment. Approximately 59 linear feet of seam was extrusion welded during deployment. Destructive and non-destructive testing was completed in compliance with project technical specifications.

Ames continuously excavated anchor trench ahead of geomembrane installation. After geomembrane testing was completed, the anchor trench above finished panels was backfilled and compacted per project specifications.

See attached figure for approved geomembrane.

**II) Storm Water Management**

Best Management Practices (BMPs) continued to be performed.

**CRIPPLE CREEK & VICTOR GOLD MINING Co.  
ANGLOGOLD ASHANTI (COLORADO)  
SQUAW GULCH (VLF) WEEKLY REPORT**



**CQA ACTIVITIES:**

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**I) Field Activities:**

The following activities were observed: Placement and compaction of the Phase 1 Structural Fill materials; subgrade acceptance; placement, compaction, density testing, depth verification and acceptance of Soil Liner Fill materials; geomembrane installation and acceptance; Drain Cover Fill placement; Spent Ore grading in PSSA; and pump monitoring at the LVSCS riser pipes.

**II) Laboratory Activities:**

Concrete testing (ADR2), atterberg limits, moisture, compaction, permeability and sieve analysis testing continued.

The following samples were collected: Phase 1 – Soil Liner Fill; 1-SLF-49-R  
Cameron – Soil Liner Fill; SLF-199-C

**General Project Items**

**Meetings and Discussions:**

The Weekly Contractor Meeting was held October 20, 2015 (Amec Foster Wheeler, CC&V, Ames). Amec Foster Wheeler and CC&V discussed the barren pipeline corridor immediately following the Weekly Contractor Meeting.

- Ames daily safety meetings
- Amec Foster Wheeler daily safety meetings

**Summary of Concerns:** None.

**CC&V:** Daily updates, reporting, and scheduling occurred between CC&V Projects, Amec Foster Wheeler, and Ames.

**Deliveries:** None.

**CQA Monitor**

**Submitted by:**   
Bobby Redd, EI  
Project Resident

**Date:** October 31, 2015

**Reviewed by:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**CC&V Projects  
Reviewed By:** 

**Date:** 11/10/15

**Reviewed By:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**CRIPPLE CREEK & VICTOR GOLD MINING Co.  
ANGLOGOLD ASHANTI (COLORADO)  
SQUAW GULCH (VLF) WEEKLY REPORT**



**ATTACHMENT A**

**Amec Foster Wheeler - 2015 CQA Field Staff Schedule MLE2**

Name	Sun	Mon	Tues	Wed	Thurs	Fri	Sat
	Oct 18	Oct 19	Oct 20	Oct 21	Oct 22	Oct 23	Oct 24
Bobby Redd		PR	PR	PR	PR	PR	PR
Eric Lorenson		LT	LT	LT	LT	LT	
Ben Melly		GL	GL	GL	GL	GL	GL
Rick Buxton		ST	ST	ST		ST	ST
Shawn Wisely		ST	ST		LT	ST	ST
Alfonso Frias		GT	GT	GT		GT	GT
Madeline Tarasar		ST	ST	ST		ST	ST
Josue Rodriguez		ST	ST	ST		ST	ST
David Woolley		GT	GT	GT		GT	GT
Bob Flesher		ST	ST	ST		ST	ST
Andrea Meduna			PE				

**LEGEND:**

UM = Unit Manager  
 PM = Project Manager  
 PCE = Project Certifying Engineer  
 PE = Project Engineer  
 PR = Project Resident  
 LG = Lead Geosynthetics Engineer  
 LS = Lead Soils Technician  
 ST = Soil Technician  
 LT = Laboratory Technician  
 GL = Geosynthetics Lead  
 GT = Geosynthetics Technician  
 FLM= Field/Laboratory Manager  
 UG = Underground Working Remediation  
 SE = Senior Engineer  
 GS = Geophysics Survey Geologist  
 HY = Highway Design Engineer  
 WI = Welding Inspector



**CRIPPLE CREEK & VICTOR GOLD MINING Co.  
ANGLOGOLD ASHANTI (COLORADO)  
SQUAW GULCH (VLF) WEEKLY REPORT**



**Photographs of Activities**



**Phase 1 – SLF placement and compaction.**

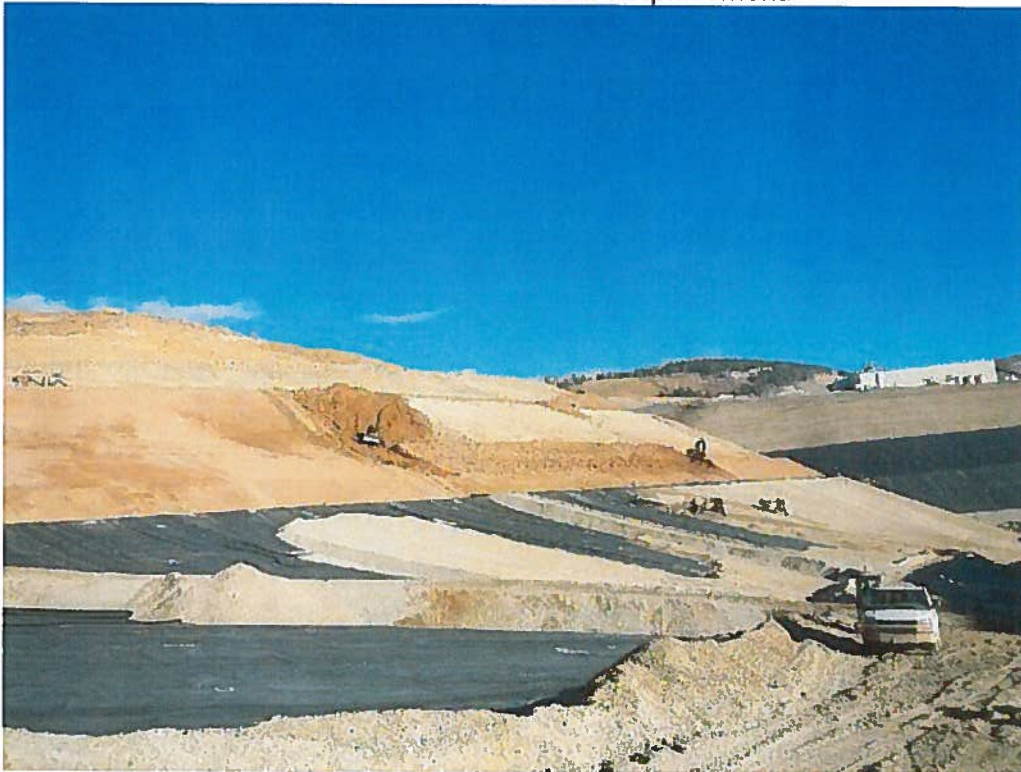


**Phase 1 – Temporary SLF road construction and SLF stockpile.**

**CRIPPLE CREEK & VICTOR GOLD MINING Co.  
ANGLOGOLD ASHANTI (COLORADO)  
SQUAW GULCH (VLF) WEEKLY REPORT**



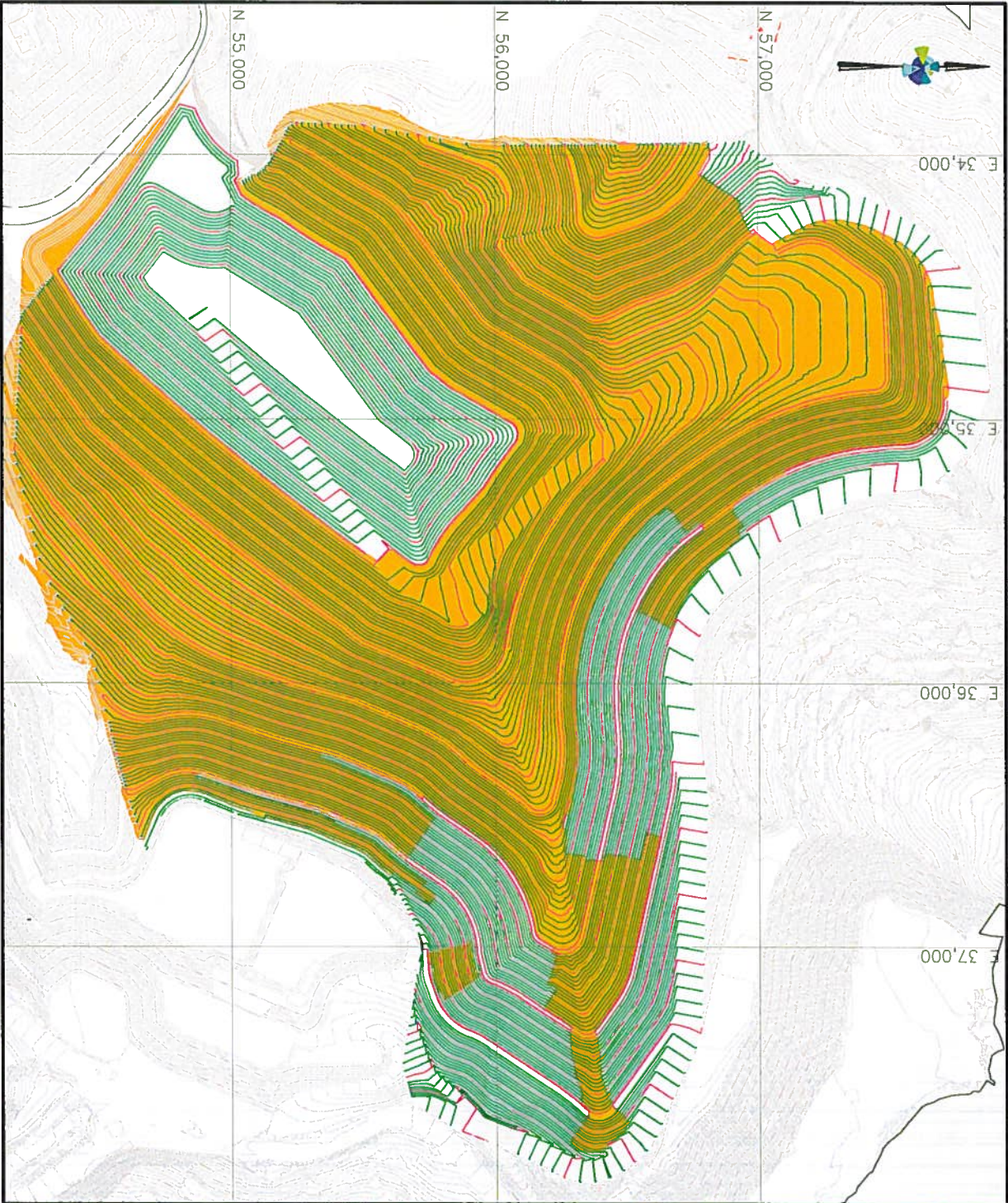
PSSA – DCF and Crushed Ore placement.




Phase 1 – DCF placement and SLF placement.



**LEGEND**  
 SUBGRADE ACCEPTANCE AREA

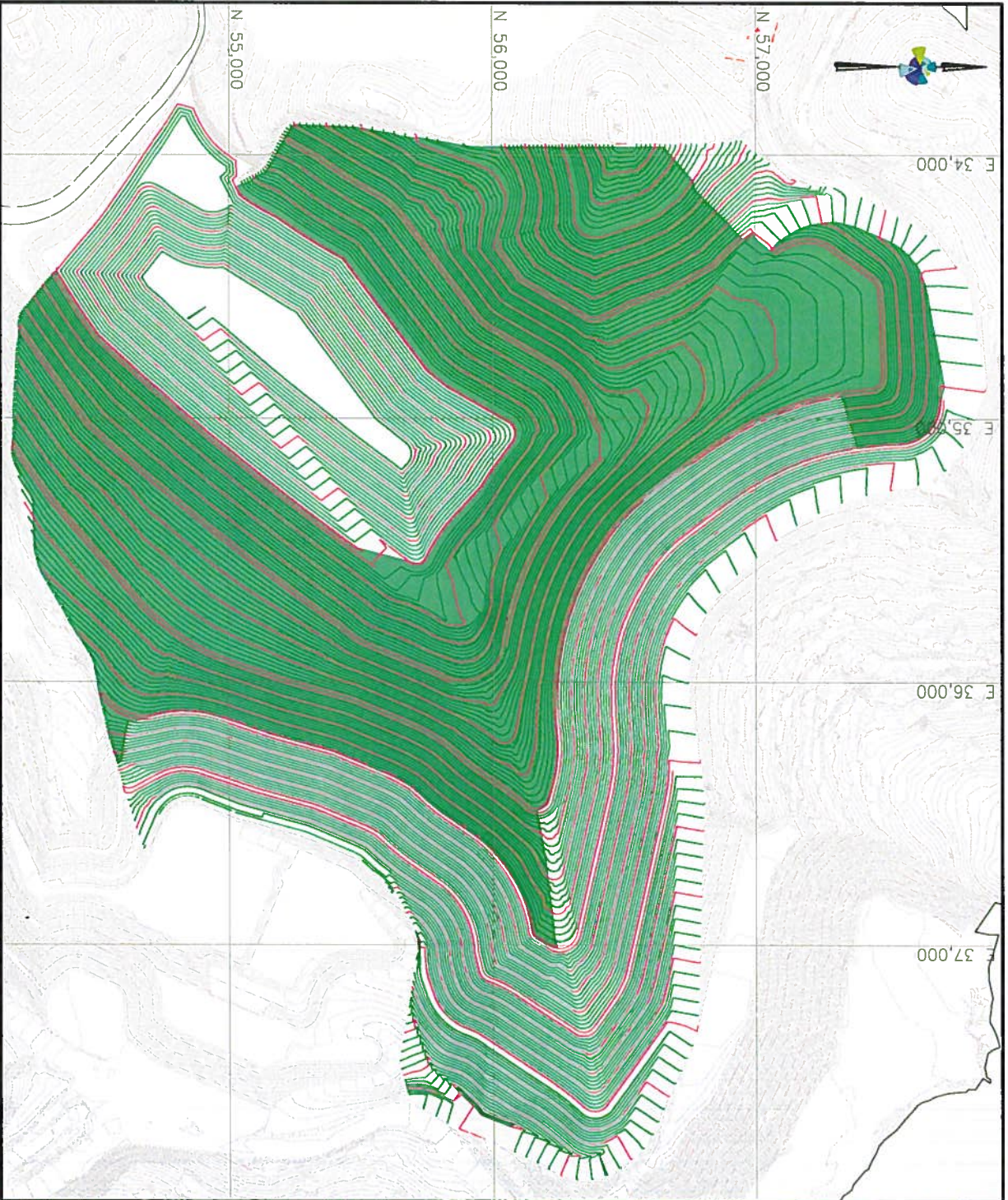




CHK BY RBR	CLIENT CRIPPLE CREEK & VICTOR MINING COMPANY	ISSUED DATE 10/28/15
APR BY ALM	PROJECT SQUAW GULCH VALLEY LEACH FACILITY	PROJECT No. 74201125N0
DRN BY RBR		FIGURE No. 1
DSN BY RBR	TITLE WEEKLY ACCEPTANCE AREAS WEEK ENDING 10-24-15	REV 0



**LEGEND**  
 SLF ACCEPTANCE AREA



CHK BY RBR	CLIENT CRIPPLE CREEK & VICTOR MINING COMPANY	ISSUED DATE 10/28/15
APR BY ALM	PROJECT SQUAW GULCH VALLEY LEACH FACILITY	PROJECT No. 74201125NO
DRN BY RBR	TITLE WEEKLY ACCEPTANCE AREAS WEEK ENDING 10-24-15	FIGURE No. 1
DSN BY RBR		REV 0





**LEGEND**

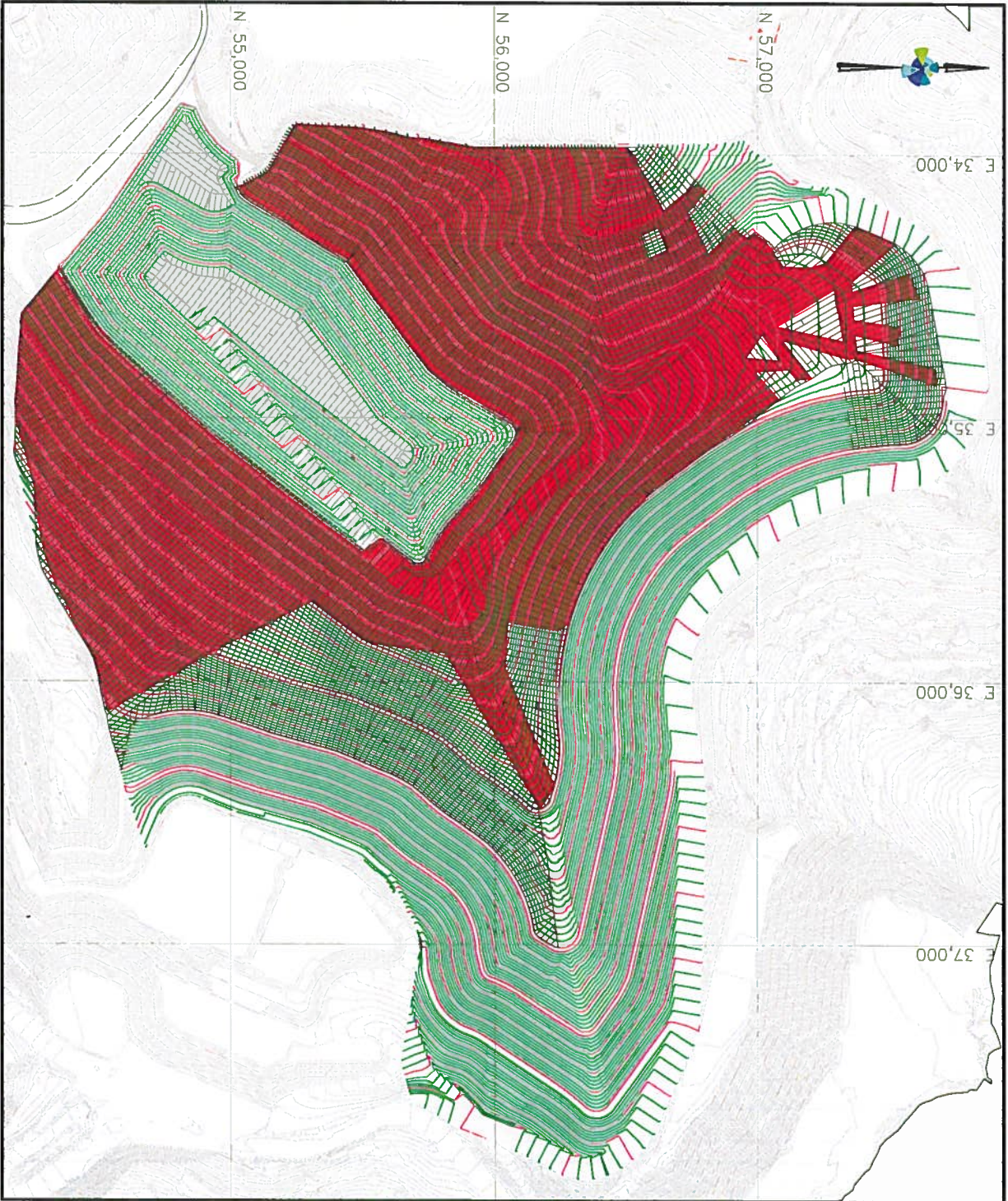
ACCEPTANCE AREA



CHK BY RBR	CLIENT CRIPPLE CREEK & VICTOR MINING COMPANY	ISSUED DATE 10/28/15
APR BY ALM	PROJECT SQUAW GULCH VALLEY LEACH FACILITY	PROJECT No. 74201125NO
DRN BY MGC	TITLE WEEKLY LINER ACCEPTANCE 10/24/15	FIGURE No. 1
DSN BY RBR		REV 0



**LEGEND**  
DCF ACCEPTANCE AREA



CHK BY  
RBR

APR BY  
ALM

DRN BY  
RBR

DSN BY  
RBR

CLIENT  
**CRIPPLE CREEK & VICTOR  
MINING COMPANY**

PROJECT  
**SQUAW GULCH VALLEY LEACH FACILITY**

TITLE  
**WEEKLY ACCEPTANCE AREAS  
WEEK ENDING 10-24-15**

ISSUED DATE

**10/28/15**

PROJECT No.

**74201125N0**

FIGURE No.

**1**

REV

**0**

**CRIPPLE CREEK & VICTOR GOLD MINING Co.  
ANGLOGOLD ASHANTI (COLORADO)  
SQUAW GULCH (VLF) WEEKLY REPORT**



<b>Owner:</b>	Cripple Creek & Victor Gold Mining Co.	<b>Project Number:</b>	74201125N0
<b>Project:</b>	Squaw Gulch Valley Leach Fill (VLF)	<b>Week Ending:</b>	October 31, 2015
<b>Location:</b>	Cripple Creek & Victor Gold Mine, CO		
<b>Contractor:</b>	Ames Construction, Inc.		

**Reporting Period: 10.25.2015 through 10.31.2015**

Days	S	M	T	W	T	F	S
Work Shifts	D	D	D	D	D	D	D
D=Day Shift		N=Night Shift		W= Weather			

Ambient Temperature Ranges During Week	Weather Conditions During Week:
Highs: 37°F to 55°F	Cloud Cover: Partly Cloudy to Mostly Cloudy
Lows: 21°F to 32°F	Precipitation: None
	Wind: Calm to moderate

**Ames:** Continuing construction tasks for the Valley Leach Facility (VLF).

**Planning:** Continuing construction activities and scheduling for the VLF.

## **CONSTRUCTION ACTIVITIES AND PROGRESS:**

### **I) Earthworks**

**\*\*** Amec Foster Wheeler field professional monitored fill material temperatures during fill placement. Average temperatures were above 32°F. All construction materials placed were verified as suitable, and construction methods were in accordance with project technical specifications. **\*\***

#### **A) VLF (PSSA, Phase 1, and 2)**

##### **Structural Fill:**

The following Structural Fill haul to fill and grading activities occurred:

Cat dozers prepared subgrade below stations H14+00 to H22+00.

CC&V hauled material to the Dump 4 surge in Phase 2 using Cat 793 haul trucks. A Cat dozer placed the Structural Fill between stations N20+00 and N22+00. A Cat smooth drum roller compacted the fill area.

All of the above Structural Fill material was placed, compacted, and graded per the project plans and specifications.

##### **Subgrade:**

Phase 1 areas dozed to finished grade were compacted per project plans and specifications.

See attached figure for approved subgrade.



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SQUAW GULCH (VLF) WEEKLY REPORT**



**Soil Liner Fill:**

A Cat smooth drum roller, a Cat excavator and a water truck conditioned and compacted SLF prior to geomembrane deployment.

Cat 740 haul trucks transported SLF to station H18+00. A Cat dozer continued construction of a temporary SLF road towards station H14+00. A Cat dozer placed SLF between stations H8+00 to H16+00. A Cat excavator reworked the bench in the vicinity of station H16+00. A Cat skidsteer, a Cat excavator with a roller attachment and two Cat smooth drum rollers compacted SLF surface in preparation for geomembrane deployment between stations H8+00 to H10+00.

Cat 777 haul trucks transported SLF from the Cameron to station L4+00. A Cat dozer continued stockpiling SLF in the direction of station H29+00.

Two Cat smooth drum rollers (connected by cable to thrust block) compacted SLF surface in preparation for geomembrane deployment.

Cameron SLF processing continued.

All of the above Soil Liner Fill material was placed, graded, and compacted per the project plans and specifications. Moisture content, density testing and depth verification were performed per project specification prior to surface acceptance and geomembrane installation.

See attached figure for approved SLF.

**Drain Cover Fill:**

Cat 740 haul trucks transported DCF from the stockpile to Phase 1. Low ground pressure Cat dozers placed DCF on approved geomembrane in Phase 1.

See attached figure for approved DCF.

**Spent Ore Fill:**

A Cat dozer continued placement of Spent Ore to engulf the open water in the PSSA prior to scheduled loading of Crushed Ore in the Fourth Quarter 2015.

**Crushed Ore Fill:**

Cat 793 haul trucks delivered Crushed Ore between stations 14+00 to 18+00 of the ADR haul road. The Crushed Ore was used to continue construction of the 20' haul road for access to the PSSA.

**Underdrain System:**

**Primary Underdrain:** Complete.

**Secondary Underdrain:** None.

**Tertiary Underdrain:** None.

**Leak Detection:**

A Cat 35 excavator prepared approximately 900 LF of leak detection trench between stations F15+00 to F24+00. A Cat skidsteer assisted with construction of approximately 900 LF of leak detection. Installation was performed per project plans and specifications.

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**Miscellaneous:**

Amec personnel continued LVSCS pump monitoring and observation.

**Geomembrane:**

Geomembrane installation within Phase 1 continued this week performing deployment, seaming, repair, and QA/QC activities. Approximately 171,145 square feet of 80mil LLDPE geomembrane was deployed. Soil Liner Fill was inspected and approved by AMEC, Ames and ECA representatives prior to geomembrane deployment. Approximately 8,947 linear feet of seam was fusion welded during deployment using one or two fusion welding machines for each day of deployment. Approximately 505 linear feet of seam was extrusion welded during deployment. Destructive and non-destructive testing was completed in compliance with project technical specifications.

Ames continuously excavated anchor trench ahead of geomembrane installation. After geomembrane testing was completed, the anchor trench above finished panels was backfilled and compacted per project specifications.

See attached figure for approved geomembrane.

**II) Storm Water Management**

Best Management Practices (BMPs) continued to be performed.

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**CQA ACTIVITIES:**

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**I) Field Activities:**

The following activities were observed: Placement and compaction of the Phase 1 Structural Fill materials; subgrade acceptance; placement, compaction, density testing, depth verification and acceptance of Soil Liner Fill materials; geomembrane installation and acceptance; Drain Cover Fill placement; Spent Ore grading in PSSA; and pump monitoring at the LVSCS riser pipes.

**II) Laboratory Activities:**

Concrete testing (ADR2), atterberg limits, moisture, compaction, permeability and sieve analysis testing continued.

The following samples were collected:

- Phase 1 – Soil Liner Fill; 1-SLF-50-R
- Phase 1 – Soil Liner Fill; 1-SLF-51-R
- Phase 1 – Soil Liner Fill; 1-SLF-52-R
- Cameron – Soil Liner Fill; SLF-200-C

**General Project Items**

**Meetings and Discussions:**

The Weekly Contractor Meeting was held October 27, 2015 (Amec Foster Wheeler, CC&V, Ames). Amec Foster Wheeler and CC&V discussed the barren pipeline corridor immediately following the Weekly Contractor Meeting.

- Ames daily safety meetings
- Amec Foster Wheeler daily safety meetings

**Summary of Concerns:** None.

**CC&V:** Daily updates, reporting, and scheduling occurred between CC&V Projects, Amec Foster Wheeler, and Ames.

**Deliveries:** None.

**CQA Monitor**

**Submitted by:**

Bobby Redd, EI  
Project Resident

Handwritten signature of Bobby Redd in black ink.

**Date:** November 4, 2015

**Reviewed by:**

**Date:**

**CC&V Projects**

**Reviewed By:**

Handwritten signature of a CC&amp;V Projects representative in black ink.

**Date:**

11/10/15

**Reviewed By:**

**Date:**



**CRIPPLE CREEK & VICTOR GOLD MINING Co.  
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**ATTACHMENT A**

**Amec Foster Wheeler - 2015 CQA Field Staff Schedule MLE2**

Name	Sun	Mon	Tues	Wed	Thurs	Fri	Sat
	Oct 25	Oct 26	Oct 27	Oct 28	Oct 29	Oct 30	Oct 31
Bobby Redd		PR	PR	PR	PR	PR	PR
Eric Lorensen		LT	LT	LT	LT	LT	LT
Ben Melly	GL	GL	GL	GL	GL	GL	GL
Rick Buxton	ST	ST	ST	ST	ST	ST	ST
Shawn Wisely		ST	ST	ST	ST	ST	ST
Alfonso Frias	GT	GT	GT		GT	GT	GT
Madeline Tarasar		ST	ST	ST	ST		
Josue Rodriguez	ST	ST	ST	ST	ST	ST	ST
David Woolley			GT	GT	GT	GT	GT
Bob Flesher	ST	ST	ST	ST	ST		

**LEGEND:**

UM = Unit Manager  
 PM = Project Manager  
 PCE = Project Certifying Engineer  
 PE = Project Engineer  
 PR = Project Resident  
 LG = Lead Geosynthetics Engineer  
 LS = Lead Soils Technician  
 ST = Soil Technician  
 LT = Laboratory Technician  
 GL = Geosynthetics Lead  
 GT = Geosynthetics Technician  
 FLM= Field/Laboratory Manager  
 UG = Underground Working Remediation  
 SE = Senior Engineer  
 GS = Geophysics Survey Geologist  
 HY = Highway Design Engineer  
 WI = Welding Inspector

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**Photographs of Activities**



Phase 1 – DCF placement, leak detection excavation and SLF haul.



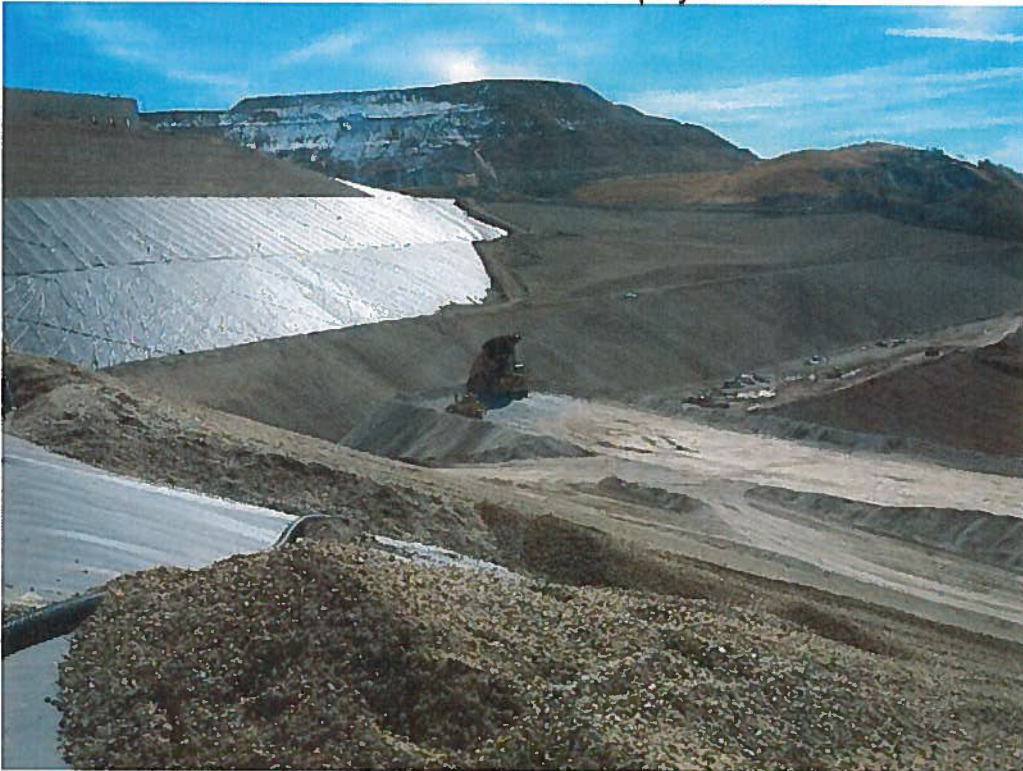
Phase 1 – SLF placement and SLF stockpile.



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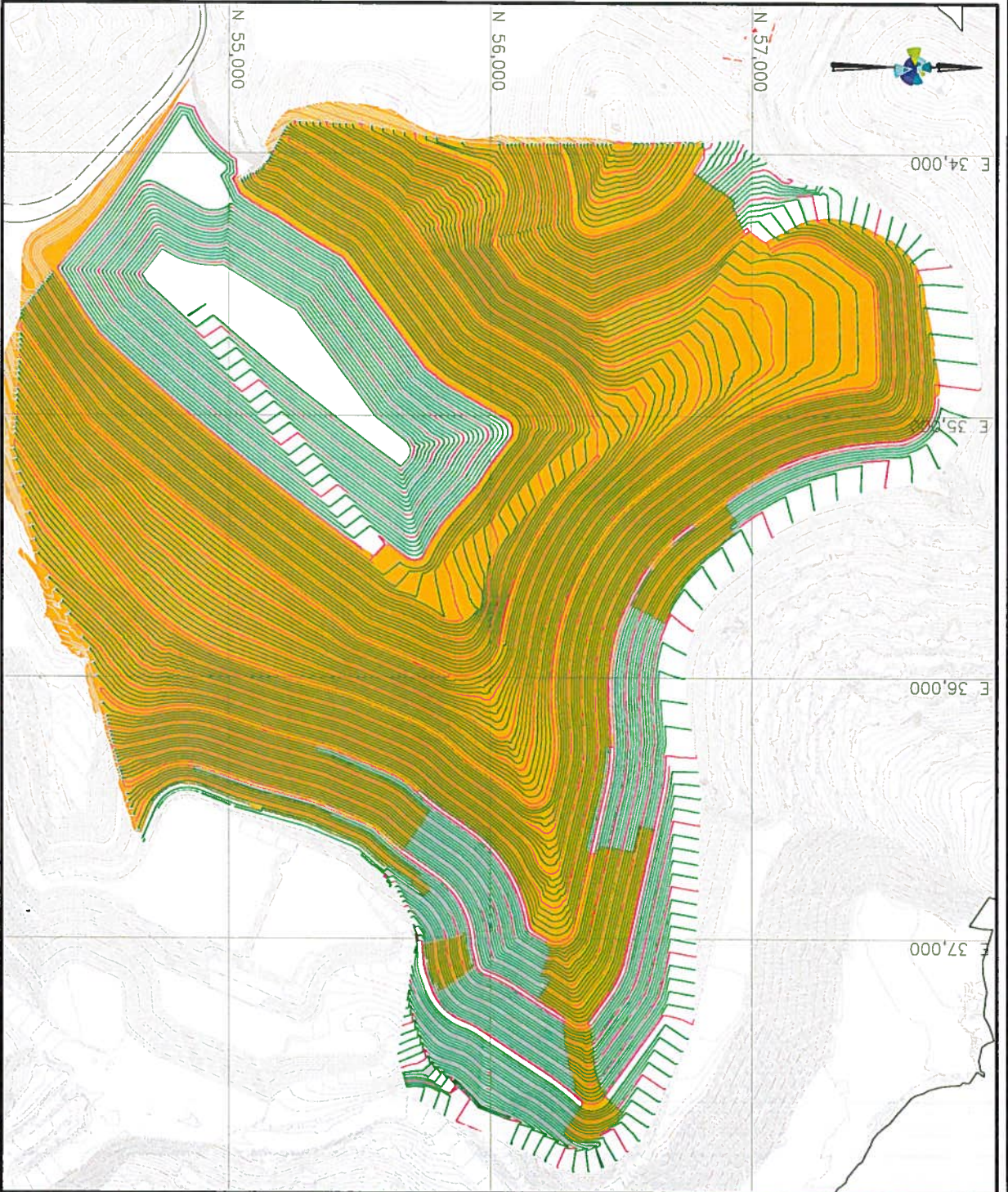
Phase 1 – Geomembrane deployment.



Phase 1 – Crushed Ore haul.



**LEGEND**  
 SUBGRADE ACCEPTANCE AREA



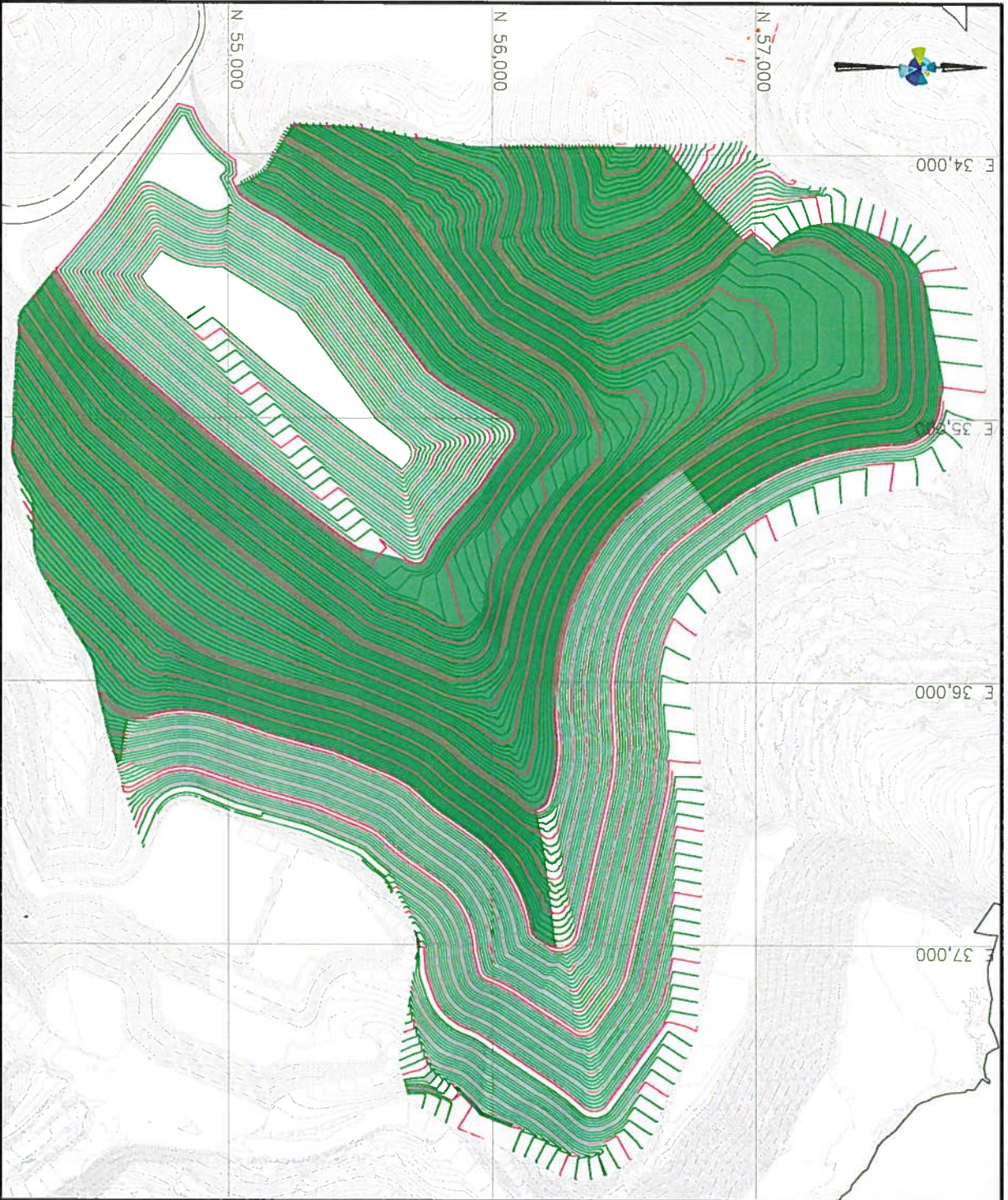
CHK BY	RBR
APR BY	ALM
DRN BY	RBR
DSN BY	RBR

CLIENT	CRIPPLE CREEK & VICTOR MINING COMPANY
PROJECT	SQUAW GULCH VALLEY LEACH FACILITY
TITLE	WEEKLY ACCEPTANCE AREAS WEEK ENDING 10-31-15

ISSUED DATE	11/04/15
PROJECT No.	74201125NO
FIGURE No.	1
REV	0



**LEGEND**  
 SLF ACCEPTANCE AREA



CHK BY	RBR
APR BY	ALM
DRN BY	RBR
DSN BY	RBR

CLIENT	CRIPPLE CREEK & VICTOR MINING COMPANY
PROJECT	SQUAW GULCH VALLEY LEACH FACILITY
TITLE	WEEKLY ACCEPTANCE AREAS WEEK ENDING 10-31-15

ISSUED DATE	11/04/15
PROJECT No.	74201125NO
FIGURE No.	1
REV	0





**LEGEND**

 ACCEPTANCE AREA

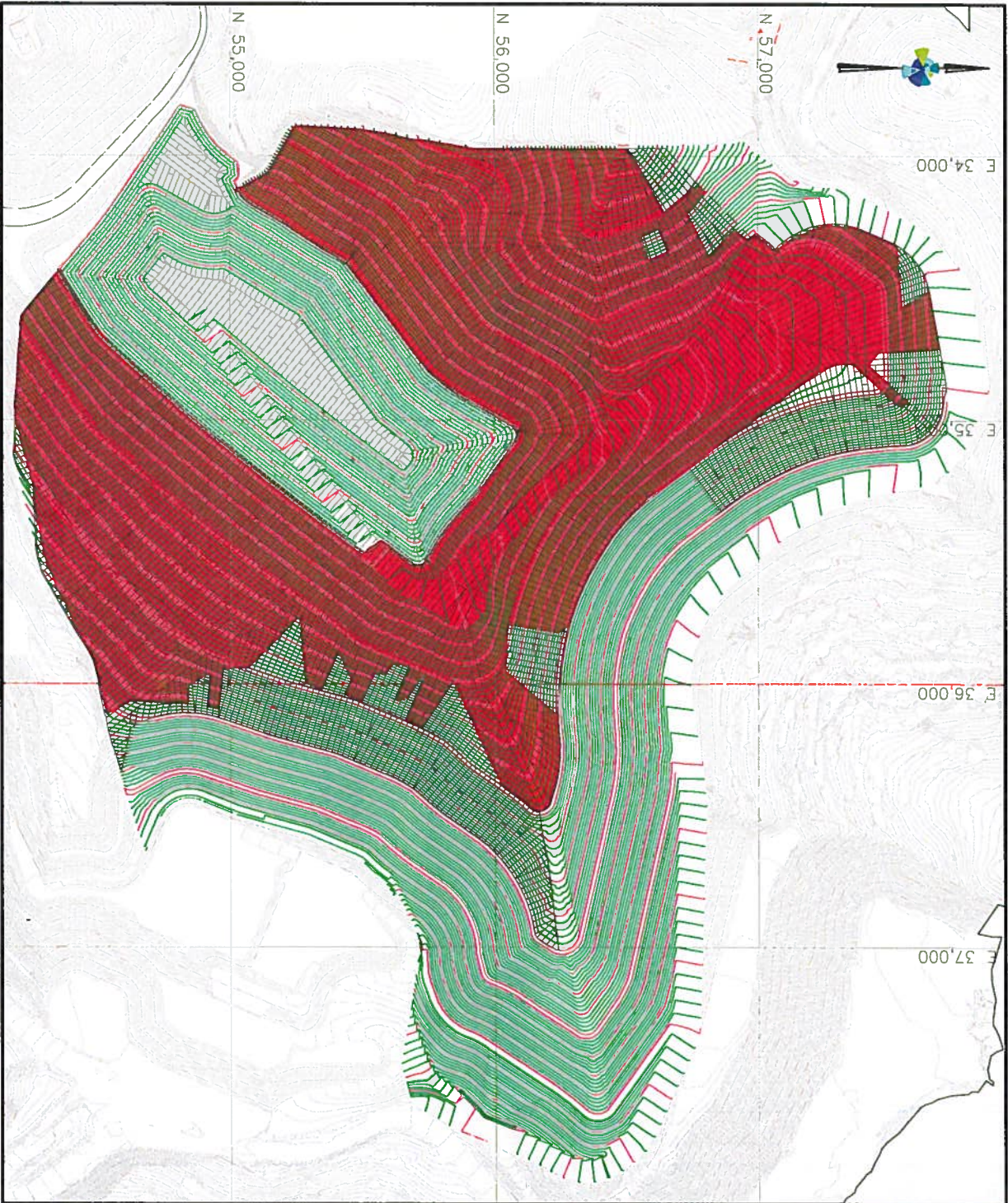
amtec  
foster  
wheeler



CHK BY RBR	CLIENT CRIPPLE CREEK & VICTOR MINING COMPANY	ISSUED DATE 11/04/15
APR BY ALM	PROJECT SQUAW GULCH VALLEY LEACH FACILITY	PROJECT No. 74201125NO
DRN BY MGC	TITLE WEEKLY LINER ACCEPTANCE 10/31/15	FIGURE No. 1
DSN BY RBR		REV 0



**LEGEND**  
DCF ACCEPTANCE AREA



CHK BY	RBR
APR BY	ALM
DRN BY	RBR
DSN BY	RBR

CLIENT	CRIPPLE CREEK & VICTOR MINING COMPANY
PROJECT	SQUAW GULCH VALLEY LEACH FACILITY
TITLE	WEEKLY ACCEPTANCE AREAS WEEK ENDING 10-31-15

ISSUED DATE	11/04/15
PROJECT No.	74201125NO
FIGURE No.	1
REV	0





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