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August 4, 2025

Certified Mail No: 9589 0710 5270 1124 7354 93

Division of Reclamation, Mining and Safety DRMS c/o Sara Stevenson-Benn 1001 E 62nd Avenue Denver, CO 80216

Re: Incompleteness Response, Financial Warranty and required bonding documents DRMS Permit: M-1997-071, Caldwell-Nesslehuf Pit

Ms. Stevenson-Benn.

In response to the required bonding documents, an affidavit signed by Brandon Pack, President of Oldcastle SW Group, Inc. dba United Companies, has been prepared and notarized for inclusion in the updated submission package. Additionally, as discussed, we have included documentation of Elected Officers who are authorized to execute agreements, contracts, documents, certificates, and other instruments for the purpose of conducting the Corporation's business.

A copy of these documents will be sent with the rest of the incompleteness package to DRMS at 1313 Sherman St., Ste. 215, Denver, CO 80203.

We appreciate your time on this matter. If there is anything more you require from us please do not he sitate to reach out.

Thanks.

Sara Weimer

EHS

Oldcastle SW Group, Inc.



Documentation of Legal Authority to Execute Financial Warranty Documents

The Colorado Mined Land Reclamation Board ("Board") has adopted the attached Affidavit of Authority to Execute Financial Warranty Documents pursuant to the Mined Land Reclamation Act (C.R.S. § 34-32-101 et. seq.) and the Land Reclamation Act for the Extraction of Construction Materials (C.R.S. § 34-32.5-101 et. seq.). The Board and the Division of Reclamation Mining and Safety ("Division") have determined that, in order to carry out the financial warranty requirements set forth in C.R.S. §§ 34-32-117 and 34-32.5-117 with reasonable diligence, it is prudent to verify the legal authority of the individual signing all necessary documents.

Accordingly, you must provide confirmation of the legal authority of the individual signing all Financial Warranty Documents to the Division. You may do so either by submitting a resolution of the decision-making body of your company that authorizes an individual to sign the Financial Warranty Documents on the company's behalf, or by completing and notarizing the attached affidavit. The Division reserves the right to require the attached affidavit in all circumstances. Please note that if you are a sole proprietor who is executing documents on your own behalf, documentation of legal authority is unnecessary.



Affidavit of Authority to Execute Financial Warranty Documents

	Before me this day, the undersigned	Brandon Pack	[name of authorized person], in his/her
capacity	as President		zed person] ("Affiant"), personally appeared and, being first duly
sworn up	oon oath said:		
1.	This affidavit is being executed and sorganization], a(n) Corporation	submitted on behalf of	Oldcastle SW Group, Inc. (dba United Companies) [name of business [legal form of business organization, e.g., corporation,
			ng in the State of Colorado (the "Company").
	partnership, minted habitity company	y, etc.j, ili good standi	ng in the State of Colorado (the Company).
2.	AND A CONTRACT OF THE CONTRACT		cial warranty documents associated with file number
	M-1997-07/ (DRMS file r	number), which are red	quired by the Colorado Mined Land Reclamation Board and
	Division of Reclamation Mining and	Safety pursuant to Co	lorado law ("Financial Warranty Documents").
3.	Affiant is duly authorized to sign suc the same.	h Financial Warranty	Documents on behalf of the Company and to bind the Company to
4.	Affiant is not prohibited or limited by Financial Warranty Documents.	the Company's gove	rning documents or by any applicable law from executing the
5.	Affiant will inform the Division of R authorization to execute Financial W	-	d Safety within thirty (30) days in the event that his/her the Company's behalf is terminated.
Further,	Affiant sayeth not.		
	on Pack		
Amant	's Name		
7	BD 1		
Signatu	ire		
STATE	OF Colorado):	SARA BETH WEIMER NOTARY PUBLIC STATE OF COLORADO NOTARY ID 20234001675 MY COMMISSION EXPIRES JANUARY 12, 2027
) ss.:	MY COMMISSION EXPINES OF
COUNT	Y ^{OF} Jefferson)	
	e foregoing instrument was acknowle	dged before me this . resident	day of July , 2025,
			Notary Public Cara Bett Winner
			My Commission Expires January 12, 2027

ACTION BY WRITTEN CONSENT IN LIEU OF AN ANNUAL MEETING OF THE BOARD OF DIRECTORS OF OLDCASTLE SW GROUP, INC.

The undersigned, being all of the members of the Board of Directors of Oldcastle SW Group, Inc., a Colorado corporation (the "Corporation"), do hereby, pursuant to §7-108-202 of the Colorado Business Corporation Act, give this written consent (a) to the dispensation of an annual meeting of the Board of Directors of the Corporation and (b) to the taking of the following actions, such actions to have the same force and effect had a meeting been duly called and held:

I. ELECTION OF OFFICERS

RESOLVED, that effective May 8, 2025, all previous elections of officers are terminated, and the following persons be, and hereby are, elected to serve as officers of the Corporation (each individually, an "Officer" and collectively, the "Officers") in the capacities set forth opposite their respective names until such time as their successors shall be elected and qualified:

Brandon Pack
Kyle Alpha
Vice President
Joy Trombley
Secretary, Treasurer, Controller
Kyle High
Assistant Secretary
Jeff Keller
Assistant Secretary
Tony Majka
Ilana Overmeyer
Assistant Secretary
Assistant Secretary

FURTHER RESOLVED, that the Officers be, and each of them hereby is, authorized to execute and deliver agreements, contracts, documents, certificates, and other instruments, under the seal of the Corporation if required, for the purpose of conducting the Corporation's business, including without limitation, selling products and securing construction work, and to take such other action, as they may deem necessary, advisable, convenient, or appropriate to carry out and fully perform duties incident to the office or offices so appointed, and such other duties as may be prescribed by the Board of Directors from time to time;

FURTHER RESOLVED, that the following persons are hereby designated officers solely for the purpose of attesting signatures of other officers on behalf of the Corporation, and for executing and attesting various corporate documents, tax returns, affidavits, and similar such instruments as may be necessary from time to time:

David M. Toolan Assistant Secretary
Tim P. George Assistant Secretary

FURTHER RESOLVED, that the President of the Corporation may, from time to time, without further action by the Board of Directors, appoint other persons to serve as authorized employees, or remove any individuals from this capacity, and to direct those appointed to take

such action, as he may deem necessary, advisable, convenient or appropriate to carry out and fully perform the duties incident to the office of President.

II. REMOVALS

RESOLVED, that any current officers of the Corporation not elected in the foregoing resolution are hereby removed.

III. AUTHORIZATION OF TRADE AND DIVISIONAL NAMES

RESOLVED, that the activities and operations of the Corporation may be carried on in any of the following manners or styles as may from time-to-time be deemed necessary or appropriate:

Asphalt Paving Company
APC Construction Company
APC Southern Construction Company
B&B Excavating
Delta Sand & Gravel Co.
Four Corners Materials
Granby Sand & Gravel
Telluride Gravel
United Companies of Mesa County
United Paving, Incorporated
United Redi-Mix, Inc.
United Sand and Gravel Company, Inc.
United Companies

FURTHER RESOLVED, that the President of the Corporation may, from time to time, without further action by the Board of Directors, authorize the use of additional trade names, and to deem unauthorized any trade name previously authorized, as he may deem necessary, advisable, convenient or appropriate.

IV. MISCELLANEOUS

RESOLVED, that all actions previously taken by any Officer of the Corporation appointed hereunder in his/her capacity as such Officer be, and each of them hereby is, adopted, ratified, confirmed and approved in all respects as the authorized acts and deeds of the Corporation;

FURTHER RESOLVED, that each undersigned agrees that electronic signatures, whether digital or encrypted, of the Board of Directors are intended to authenticate this consent and to have the same force and effect as manual signatures. As used in the previous sentence, the term "electronic signatures" means any electronic sound, symbol or process attached to or logically associated with this consent and executed and adopted by a member of the Board of Directors with the intent to sign such consent, including, but not limited to, e-mail electronic signatures executed through DocuSign; and

FURTHER RESOLVED, that this Consent, following execution by all of the members of the Board of Directors, be filed in appropriate order in the minute book of the Corporation.

igned by:

Mathan Credi

Nathan Creech

Signed by

-596E90AE2FBA4D0...

John Rothering

DIVISION OF RECLAMATION, MINING AND SAFETY

Department of Natural Resources

1313 Sherman St., Room 215 Denver, Colorado 80203 Phone: (303) 866-3567 FAX: (303) 832-8106



APPLICATION FORM FOR TRANSFER OF MINERAL PERMIT AND SUCCESSION OF OPERATORS

ADMINISTRATIVE INFORMATION

Permit Information
Permit Number: M-1997-071
Operation Name: Caldwell-Nesselhuf Pit No. 1
Permittee Information
Contact Person: John Paul Ary
Company Name: All Rite Paving & Redi-Mix, Inc
Street Address: 839 MacKenzie Avenue
City: Canon City
State: CO Zip: 81212
Phone: (719) 275 - 3264
Email (optional): _jp@arycorp.com
Prospective Successor Information
Contact Person: Tony Majka
Company Name: Oldcastle SW Group, Inc. dba United Companies
Street Address: 2273 River Road
City: Grand Junction
State: Colorado Zip: 81505
Phone: <u>(719</u>)275-3264
Email (optional): tony.majka@unitedco.com

Oldcastle SW Group, Inc. 2273 River Road Grand Junction, CO 81505

July 29, 2025

Ladies and Gentlemen:

I serve as internal transactions counsel to Oldcastle SW Group, Inc. This letter is provided to clarify the structure and outcome of a transaction (the "Transaction") whereby Oldcastle SW Group, Inc. ("Oldcastle") acquired Fremont Paving and Redi-Mix, Inc., a Colorado corporation, and certain affiliated business entities and subsequently merged the acquired entities with and into Oldcastle.

Prior to the Transaction, Fremont Paving and Redi-Mix, Inc. operated under several registered "doing business as" names, including (i) All Rite Paving and Redi-Mix, Inc., (ii) Ary Corporation, and (iii) Hard Rock Paving and Redi-Mix, as documented in the Statements of Trade Name filed with the Colorado Secretary of State and attached hereto as Exhibit A.

On July 19, 2024, Oldcastle acquired 100% of the stock or equity interests (as applicable) in the following companies (collectively, the "Acquired Entities"):

- 1. Fremont Paving and Redi-Mix, Inc., a Colorado corporation (d/b/a All Rite Paving and Redi-Mix, Inc.; d/b/a Ary Corporation; and d/b/a Hard Rock Paving and Redi-Mix)
- 2. A&S Construction Co., a Colorado corporation
- 3. Ary Brothers Trucking, Inc., a Colorado corporation
- 4. Crane Services of Colorado, Inc., a Colorado corporation
- 5. Pueblo East Phase III LLC, a Colorado limited liability company
- 6. Hwy 47 Investment LLC, a Colorado limited liability company

The Stock Power transfer documents and the Membership Interest Assignment documents for the Acquired Entities reflecting the transfer of the equity of the applicable corporation or limited liability company of each are attached hereto as Exhibit B and Exhibit C, respectively.

Subsequently, pursuant to the Statement of Merger filed and stamped by the Colorado Secretary of State on July 22, 2024 (attached hereto as Exhibit D), each of the Acquired Entities merged with and into Oldcastle. As a result of the merger, all assets, rights, properties, and contractual interests of the Acquired Entities, including permits, leases, and real property interests, became the assets and obligations of Oldcastle by operation of law.

We hope this letter clarifies the steps involved in the Transaction and satisfies your requests. Should you have any questions or if there is further information we can provide, please do not hesitate to contact us.

Sincerely,

K. Scott Voelker Deputy General Counsel CRH Americas, Inc.

EXHIBIT A

STATEMENTS OF TRADE NAME

See attached



Document must be filed electronically.
Paper documents are not accepted.
Fees & forms are subject to change.
For more information or to print copies of filed documents, visit www.sos.state.co.us.

Colorado Secretary of State

Date and Time: 04/19/2019 09:48 AM

ID Number: 20191179338

Document number: 20191330622

Amount Paid: \$10.00

ABOVE SPACE FOR OFFICE USE ONLY

Statement of Correction of Trade Name Information Correcting the Trade Name

filed pursuant to § 7-90-305 of the Colorado Revised Statutes (C.R.S.)

1. The entity ID number, if applicable, the business or conducting activities under	trade name ID number, and the name of the person transacting the trade name are
Entity ID number	19871465104
(if applicable)	(Colorado Secretary of State ID number)
Trade name ID number	20191179338
	(Colorado Secretary of State ID number)
Name	FREMONT PAVING AND REDI-MIX, INC.
2. The document number of the document trade name are	that is corrected and the trade name as stated in the statement of
Document number	20191179338
Trade name	All Rite Paving and Redi-Mix
3. The statement of the trade name in the c	locument identified above is incorrect.
 Such trade name, as corrected, is <u>All Rite Paving and Redi-Mix, Inc</u> 	•
5. (If applicable, adopt the following statement by mark	

Notice:

Causing this document to be delivered to the Secretary of State for filing shall constitute the affirmation or acknowledgment of each individual causing such delivery, under penalties of perjury, that such document is such individual's act and deed, or that such individual in good faith believes such document is the act and deed of the person on whose behalf such individual is causing such document to be delivered for filing, taken in conformity with the requirements of part 3 of article 90 of title 7, C.R.S. and, if applicable, the constituent documents and the organic statutes, and that such individual in good faith believes the facts stated in such document are true and such document complies with the requirements of that Part, the constituent documents, and the organic statutes.

This perjury notice applies to each individual who causes this document to be delivered to the Secretary of State, whether or not such individual is identified in this document as one who has caused it to be delivered.

6. The true name and mailing address of the individual causing this document to be delivered for filing are Richard Ranson (Last) (First) (Middle) (Suffix) 1040 Hunters Ridge Dr (Street number and name or Post Office Box information) Colorado Springs CO 80919 (City) (State) (Zip/Postal Code) United States (Country - if not US) (Province - if applicable) (If applicable, adopt the following statement by marking the box and include an attachment.) This document contains the true name and mailing address of one or more additional individuals causing the document to be delivered for filing. Disclaimer:

This form/cover sheet, and any related instructions, are not intended to provide legal, business or tax advice, and are furnished without representation or warranty. While this form/cover sheet is believed to satisfy minimum legal requirements as of its revision date, compliance with applicable law, as the same may be amended from time to time, remains the responsibility of the user of this form/cover sheet. Questions should be addressed to the user's legal, business or tax advisor(s).



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jurisdiction under the law of which it is formed are

Colorado Secretary of State

Date and Time: 02/27/2019 09:27 AM

ID Number: 20191179338

Document number: 20191179338

Amount Paid: \$20.00

ABOVE SPACE FOR OFFICE USE ONLY

Statement of Trade Name of a Reporting Entity

filed pursuant to §7-71-103 and §7-71-107 of the Colorado Revised Statutes (C.R.S)

1. For the reporting entity delivering this statement, its ID number, true name, form of entity and the

	ID Number	19871465104 (Colorado Secretary of State ID number)
	True name	FREMONT PAVING AND REDI-MIX, INC.
	Form of entity	Corporation
	Jurisdiction	Colorado
2.	The trade name under which such er transacting business or conducting a	ntity transacts business or conducts activities or contemplates activities in this state is
	All Rite Paving and Redi-Mix	
3.	transacted or conducted in this state	
	aggregate material, concrete p	Daving
4.		atement by marking the box and include an attachment.)
	This document contains addition	nal information as provided by law.
5.	(Caution: Leave blank if the document do significant legal consequences. Read inst	ves not have a delayed effective date. Stating a delayed effective date has tructions before entering a date.)
		atement by entering a date and, if applicable, time using the required format.) oplicable, time of this document are
		(mm/dd/yyyy hour:minute am/pm)
Ca aci suc of co do do	knowledgment of each individual cau ch individual's act and deed, or that s the person on whose behalf such ind informity with the requirements of pa ocuments and the organic statutes, and	to the Secretary of State for filing shall constitute the affirmation or using such delivery, under penalties of perjury, that such document is such individual in good faith believes such document is the act and deed ividual is causing such document to be delivered for filing, taken in rt 3 of article 90 of title 7, C.R.S. and, if applicable, the constituent d that such individual in good faith believes the facts stated in such complies with the requirements of that Part, the constituent documents,

TRDNM_RE Page 1 of 2 Rev. 12/01/2012

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6. The true name and mailing address of the individual causing this document to be delivered for filing are Ranson Richard Paul (Middle) (Last) (First) (Suffix) 1040 Hunters Ridge Dr (Street number and name or Post Office Box information) Colorado Springs CO (Postal/Zip Code) (City) (State) United States . (Province - if applicable) (Country – if not US) (If the following statement applies, adopt the statement by marking the box and include an attachment.) This document contains the true name and mailing address of one or more additional individuals causing the document to be delivered for filing. Disclaimer:

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jurisdiction under the law of which it is formed are

Colorado Secretary of State

Date and Time: 05/03/2019 03:13 PM

ID Number: 20191386394

Document number: 20191386394

Amount Paid: \$20.00

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Statement of Trade Name of a Reporting Entity

filed pursuant to §7-71-103 and §7-71-107 of the Colorado Revised Statutes (C.R.S)

1. For the reporting entity delivering this statement, its ID number, true name, form of entity and the

	ID Number	19871465104 (Colorado Secretary of State ID number)
	True name	FREMONT PAVING AND REDI-MIX, INC.
	Form of entity	Corporation
	Jurisdiction	Colorado
2.	The trade name under which such transacting business or conductin	n entity transacts business or conducts activities or contemplates g activities in this state is
	Ary Corporation	
3.	A brief description of the kind of transacted or conducted in this sta	business transacted or activities conducted or contemplated to be ate under such trade name is
	Heavy civil construction	
4.		e statement by marking the box and include an attachment.) cional information as provided by law.
5.	(Caution: Leave blank if the document significant legal consequences. Read	t does not have a delayed effective date. Stating a delayed effective date has instructions before entering a date.)
		e statement by entering a date and, if applicable, time using the required format.) applicable, time of this document are
	,,	(mm/dd/yyyy hour:minute am/pm)
Ca aci suc of co do do	knowledgment of each individual ch individual's act and deed, or that the person on whose behalf such informity with the requirements of bouments and the organic statutes,	ed to the Secretary of State for filing shall constitute the affirmation or causing such delivery, under penalties of perjury, that such document is at such individual in good faith believes such document is the act and deed individual is causing such document to be delivered for filing, taken in part 3 of article 90 of title 7, C.R.S. and, if applicable, the constituent and that such individual in good faith believes the facts stated in such ant complies with the requirements of that Part, the constituent documents,

This perjury notice applies to each individual who causes this document to be delivered to the Secretary of State, whether or not such individual is identified in this document as one who has caused it to be delivered.

6. The true name and mailing address of the individual causing this document to be delivered for filing are Ary Joshua Paul (Middle) (Last) (First) (Suffix) 839 MacKenzie Ave (Street number and name or Post Office Box information) Canon City CO (Postal/Zip Code) (State) United States . (Province - if applicable) (Country - if not US) (If the following statement applies, adopt the statement by marking the box and include an attachment.) This document contains the true name and mailing address of one or more additional individuals causing the document to be delivered for filing. Disclaimer: This form/cover sheet, and any related instructions, are not intended to provide legal, business or tax advice, and are furnished without representation or warranty. While this form/cover sheet is believed to satisfy minimum legal requirements as of its revision date, compliance with applicable law, as the same may be amended from time to time, remains the responsibility of the user of this form/cover sheet. Questions should

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jurisdiction under the law of which it is formed are

Colorado Secretary of State

Date and Time: 02/27/2019 09:07 AM

ID Number: 20191179198

Document number: 20191179198

Amount Paid: \$20.00

ABOVE SPACE FOR OFFICE USE ONLY

Statement of Trade Name of a Reporting Entity

filed pursuant to §7-71-103 and §7-71-107 of the Colorado Revised Statutes (C.R.S)

1. For the reporting entity delivering this statement, its ID number, true name, form of entity and the

	ID Number	19871465104 (Colorado Secretary of State ID number)
	True name	FREMONT PAVING AND REDI-MIX, INC.
	Form of entity	Corporation
	Jurisdiction	Colorado
2.	The trade name under which suctransacting business or conducting. Hard Rock Paving and Red	
3.		f business transacted or activities conducted or contemplated to be ate under such trade name is
4.	(If the following statement applies, adopt the	he statement by marking the box and include an attachment.)
	This document contains addi	tional information as provided by law.
5.	(Caution: Leave blank if the documen significant legal consequences. Read	nt does not have a delayed effective date. Stating a delayed effective date has instructions before entering a date.)
		the statement by entering a date and, if applicable, time using the required format.) f applicable, time of this document are
		(mm/dd/yyyy hour:minute am/pm)
co do	knowledgment of each individual ch individual's act and deed, or th the person on whose behalf such informity with the requirements of bouments and the organic statutes,	red to the Secretary of State for filing shall constitute the affirmation or causing such delivery, under penalties of perjury, that such document is at such individual in good faith believes such document is the act and deed individual is causing such document to be delivered for filing, taken in a part 3 of article 90 of title 7, C.R.S. and, if applicable, the constituent and that such individual in good faith believes the facts stated in such ant complies with the requirements of that Part, the constituent documents,

TRDNM_RE Page 1 of 2 Rev. 12/01/2012

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6. The true name and mailing address of the individual causing this document to be delivered for filing are Ranson Richard Paul (Middle) (Last) (First) (Suffix) 1040 Hunters Ridge Dr (Street number and name or Post Office Box information) Colorado Springs CO (Postal/Zip Code) (City) (State) United States . (Province - if applicable) (Country – if not US) (If the following statement applies, adopt the statement by marking the box and include an attachment.) This document contains the true name and mailing address of one or more additional individuals causing the document to be delivered for filing. Disclaimer:

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EXHIBIT B

STOCK POWER

TRANSFER DOCUMENTS

See attached

STOCK POWER

July 19, 2024

FOR VALUE RECEIVED, the undersigned hereby irrevocably assigns and transfers unto Oldcastle SW Group, Inc., a Colorado corporation ("Purchaser"), 127,500 voting shares of common stock of Fremont Paving and Redi-Mix, Inc., a Colorado corporation (the "Company"), standing in the name of the undersigned on the books of the Company represented by Certificate No. 7, together with all rights and benefits appurtenant thereto (the "Shares"). The undersigned hereby irrevocably constitutes and appoints any authorized officer of Purchaser as attorney-in-fact to transfer the Shares on the books of the Company with full power and substitution in the premises.

[Signature Page Follows]

IN WITNESS WHEREOF, this Stock Power is executed effective as of the date first written above.

FRE HOLDINGS, INC.,

a Colorado corporation

John Paul Ary, President

STOCK POWER

July 19, 2024

FOR VALUE RECEIVED, the undersigned hereby irrevocably assigns and transfers unto Oldcastle SW Group, Inc., a Colorado corporation ("Purchaser"), 122,500 nonvoting shares of common stock of Fremont Paving and Redi-Mix, Inc., a Colorado corporation (the "Company"), standing in the name of the undersigned on the books of the Company represented by Certificate No. 8, together with all rights and benefits appurtenant thereto (the "Shares"). The undersigned hereby irrevocably constitutes and appoints any authorized officer of Company as attorney-in-fact to transfer the Shares on the books of the Company with full power and substitution in the premises.

[Signature Page Follows]

IN WITNESS WHEREOF, this Stock Power is executed effective as of the date first written above.

FRE HOLDINGS, INC.,

a Colorado corporation

John P Ary, President

STOCK POWER

July 19, 2024

FOR VALUE RECEIVED, the undersigned hereby irrevocably assigns and transfers unto Oldcastle SW Group, Inc., a Colorado corporation ("Purchaser"), 41,456 voting shares of common stock of A&S Construction Co., a Colorado corporation (the "Company"), standing in the name of the undersigned on the books of the Company represented by Certificate No. 13, together with all rights and benefits appurtenant thereto (the "Shares"). The undersigned hereby irrevocably constitutes and appoints any authorized officer of Purchaser as attorney-in-fact to transfer the Shares on the books of the Company with full power and substitution in the premises.

[Signature Page Follows]

IN WITNESS WHEREOF, this Stock Power is executed effective as of the date first written above.

AS HOLDINGS, INC.,

a Colørado corporation

John Paul Ary, President

EXHIBIT C

MEMBERSHIP INTEREST ASSIGNMENTS

See attached

MEMBERSHIP INTEREST ASSIGNMENT

July 19, 2024

FOR VALUE RECEIVED, the Members identified on <u>Exhibit A</u> hereby irrevocably assign and transfer unto Oldcastle SW Group, Inc., a Colorado corporation ("<u>Purchaser</u>"), their respective ownership, identified in <u>Exhibit A</u>, totaling a transfer of 100% of the membership interest in Hwy 47 Investment, LLC, a Colorado limited liability company (the "<u>Company</u>"), together with all rights and benefits appurtenant thereto (collectively, the "<u>Interests</u>"). The undersigned hereby irrevocably constitute and appoint any authorized officer of Purchaser as attorney-in-fact to transfer the Interests on the books of the Company with full power and substitution in the premises.

[Signature Page Follows]

IN WITNESS WHEREOF, this Membership Interest Assignment is executed effective as of the date first written above.

MEMBERS:

JC Ary Properties, LLC, a Colorado limited liability company

By: Joshua Ary Title: Member

CS Rose Properties, LLC, a Colorado limited liability company

By: Samantha Ary Title: Member

N&S Properties, LLC, a Colorado limited liability company

By: Sarah Ary Phillips

Title: Member

Elizabeth Ary (Czarnecki), an individual

John Paul Ary, an individual

EXHIBIT A (Membership)

<u>Member</u>	Interest Transferred
John Paul Ary	10%
JC Ary Properties, LLC	22.5%
CS Rose Properties, LLC	22.5%
N&S Properties, LLC	22.5%
Elizabeth Ary (Czarnecki)	22.5%

MEMBERSHIP INTEREST ASSIGNMENT

July 19, 2024

FOR VALUE RECEIVED, the undersigned hereby irrevocably assigns and transfers unto Oldcastle SW Group, Inc., a Colorado corporation ("<u>Purchaser</u>"), a 100% membership interest in Pueblo East Phase III, LLC, a Colorado limited liability company (the "<u>Company</u>"), together with all rights and benefits appurtenant thereto (the "<u>Interest</u>"). The undersigned hereby irrevocably constitutes and appoints any authorized officer of Purchaser as attorney-in-fact to transfer the Interest on the books of the Company with full power and substitution in the premises.

[Signature Page Follows]

IN WITNESS WHEREOF, this Membership Interest Assignment is executed effective as of the date first written above.

John Paul Ary, Member, an individual

EXHIBIT D

STATEMENT OF MERGER

See attached

Statement of Merger (Surviving Entity is a Domestic Entity)

Business Program

Colorado Secretary of State

1700 Broadway, Ste. 550 Denver, CO 80290

Phone: 303-894-2200

Fax: 303-869-4864

Email: Business@coloradosos.gov

Website: www.coloradosos.gov

20241757420 \$300.00

SECRETARY OF STATE

07/22/2024 14:53:27

This form must be typed. Documents may be submitted by mail or dropped off at our

office along with payment.

Document processing fee: \$150.00

Filed pursuant to § 7-90-203.7 of the Colorado Revised Statutes (C.R.S.)

1. For each **merging** entity, its ID number (if applicable), entity name or true name, form of entity, jurisdiction under the law of which it is formed, and principal address are:

Colorado Secretary of State	e ID Number:	
19871342310		
Entity name or true name:		
A & S Construction Co.		`
<u>.</u>		
Form of entity:		
·		
Corporation		
Jurisdiction:		·
Colorado		,
The principal office address Street Address Street Address 1	of the entity's principal office	e is:
839 Mackenzie Ave		
Street Address 2		_
City	State	ZIP code
Canon City	СО	81212





Canon City Co Canon City Co Country Country USA Colorado Secretary of State ID Number: 19871280796 Entity name or true name: Ary Brothers Trucking, Inc. Corporation Colorado Che principal office address of the entity's principal office is: Street Address Street Address 1 839 Mackenzie Ave	Province (if applicable)	Country	
Mailing Address 1 PO Box 566 Mailing Address 2 City State ZIP cod Canon City CO 81212 Province (if applicable) Country USA Colorado Secretary of State ID Number: 19871280796 Entity name or true name: Ary Brothers Trucking, Inc. Corporation Jurisdiction: Colorado The principal office address of the entity's principal office is: Street Address 1 839 Mackenzie Ave Street Address 2			
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City State ZIP cod	839 Mackenzie Ave	···	
	Street Address 2		
	City	State	7IP code
(anon (m) (

	Country	
	USA	
Mailing Address (Leave blank	if same as street addr	ess)
Mailing Address 1 PO Box 976	,	
		<u> </u>
Mailing Address 2		
City	State	ZIP code
Canon City	CO	81215
Province (if applicable)	Country	•
	USA	
	·	
Colorado Secretary of State ID	Number:	
19871504162		1
-		
Entity name or true name:		
Entity name or true name: Crane Services of Colorado, In	c.	
	c .	
	C	
Crane Services of Colorado, In	c .	
	C	
Crane Services of Colorado, In Form of entity: Corporation	c .	
Form of entity: Corporation Jurisdiction:	c.	
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Crane Services of Colorado, In Form of entity: Corporation Jurisdiction: Colorado The principal office address of t Street Address Street Address 1 839 Mackenzie Ave		e is: ZIP code 81212

Province (if applicable)	Country
·	USA
Mailing Address (Leave blank Mailing Address 1	(if same as street address)
Mailing Address 2	
City	State ZIP code
Province (if applicable)	Country
If the following statement applie include an attachment:	and the second of the second o
There are more than the applicable), entity name under the law of which	ree merging entities and the ID number (if e or true name, form of entity, jurisdiction
include an attachment: There are more than th applicable), entity name under the law of which additional merging entity.	ree merging entities and the ID number (if e or true name, form of entity, jurisdiction it is formed, and the principal address of eac
include an attachment: There are more than the applicable), entity name under the law of which additional merging entity. For the surviving entity, its entity liname, form of entity, jurisdiction under the surviving entity in the surviving entity, jurisdiction under the surviving entity in the surviving entity, jurisdiction under the surviving entity, jurisdiction under the surviving entity in the surviving entity in the surviving entity, jurisdiction under the surviving entity in	ree merging entities and the ID number (if e or true name, form of entity, jurisdiction it is formed, and the principal address of eacity is stated in an attachment. D number (if applicable), entity name or true ander the law of which it is formed, and principal
There are more than the applicable), entity name under the law of which additional merging entity liname, form of entity, jurisdiction unaddress are: Colorado Secretary of State ID 19871178882	ree merging entities and the ID number (if e or true name, form of entity, jurisdiction it is formed, and the principal address of eacity is stated in an attachment. D number (if applicable), entity name or true ander the law of which it is formed, and principal
There are more than the applicable), entity name under the law of which additional merging entity. For the surviving entity, its entity liname, form of entity, jurisdiction unaddress are: Colorado Secretary of State ID	ree merging entities and the ID number (if e or true name, form of entity, jurisdiction it is formed, and the principal address of eacity is stated in an attachment. D number (if applicable), entity name or true ander the law of which it is formed, and principal



Jurisdiction:		
Colorado		
The principal office address of	the entity's principal office	is:
Street Address Street Address 1	•	
2273 River Rd		
Street Address 2		
	<u> </u>	
City	State	ZIP code
Grand Junction	CO	81505
Province (if applicable)	Country	····
	USA	
Mailing Address (Leave blan	k if same as street addre	ess)
Mailing Address 1		· · · · · · · · · · · · · · · · · · ·
Mailing Address 2		
City	State	ZIP code
Province (if applicable)	Country	
Each merging entity has been me	rged into the surviving ent	ity.
f the following statement applies,	adopt the statement by m	arking the box:
The minutes of measures are side of	. 	matitus mt Ella d
The plan of merger provides document of the surviving e		
or other document effecting		
Secretary of State for filing		

5. If the following statements the appropriate documents	• • • •	nt by marking the box and state
described i	e of the merging entities is a n a filed document in the rec cument number of each filed	cords of the secretary of state
Document 1	Document 2	Document 3
and include an atta		and the document number of
If applicable, adopt the attachment:	e following statement by marki	ng the box and include an
This docum	nent contains additional info	rmation as provided by law.
7. The delayed effective document is (if application)	date and/or time (mm/dd/yyyy ible):	hour:minute am/pm) of this
Stating a delayed effect	f the document does not have ctive date has significant legal he filing will take effect at 11:5	consequences. If you don't
the affirmation or ackno	wledgment of each individua	of State for filing shall constitute al causing such delivery, under dual's act and deed, or that such

Merger Rev. 02/22/2024

Colorado
Secretary of State

individual in good faith believes such document is the act and deed of the person on whose behalf such individual is causing such document to be delivered for filing, taken in conformity with the requirements of part 3 of article 90 of title 7, C.R.S. and, if applicable, the constituent documents and the organic statutes, and that such individual in good faith believes the facts stated in such document are true and such document complies with the

requirements of that Part, the constituent documents, and the organic statutes.

This perjury notice applies to each individual who causes this document to be delivered to the Secretary of State, whether or not such individual is identified in this document as one who has caused it to be delivered.

8. The name and mailing address of the individual causing the document to be delivered for filing are:

Last name Firs Williams	t name I Nanci	Middle Suffix
Address 1	·	
1 E Washington ST S	Ste 1200	
Address 2		
City	State	ZIP code
Phoenix	AZ	85004
Province (if applicable)	Country	
additional individuals causing	g the document to be	iling address of one or more delivered for filing. achment stating the additional
More information will	be attached.	

Disclaimer:

Filer Information

This form/cover sheet, and any related instructions, are not intended to provide legal, business or tax advice, and are furnished without representation or warranty. While this form/cover sheet is believed to satisfy minimum legal requirements as of its revision date, compliance with applicable law, as the same may be amended from time to time, remains the responsibility of the user of this form/cover sheet.

Questions should be addressed to the user's legal, business or tax advisor(s).

ATTACHMENT TO COLORADO STATEMENT OF MERGER ADDITIONAL MERGING ENTITIES

1.

19871465104
Fremont Paving and Redi-Mix, Inc.
Corporation
Colorado
839 Mackenzie Ave, Canon City, CO 81212, USA
PO Box 841, Canon City, CO 81215, USA

2.

Colorado Secretary of State ID Number:	20181635649
Entity Name or True Name:	Pueblo East Phase III, LLC
Form of Entity:	Limited Liability Company
Jurisdiction:	Colorado
Street Address:	839 Mackenzie Ave, Canon City, CO 81212, USA
Mailing Address (leave blank if same as street address)	PO Box 566, Canon City, CO 81215, USA

3.

Colorado Secretary of State ID Number:	20221676677
Entity Name or True Name:	Hwy 47 Investment, LLC
Form of Entity:	Limited Liability Company
Jurisdiction:	Colorado
Street Address:	839 Mackenzie Ave, Canon City, CO 81212, USA
Mailing Address (leave blank if same as street address)	PO Box 1091, Canon City, CO 81215, USA









www.united-gj.com www.fourcornersmaterials.com www.apc.us.com

September 16, 2025

Certified Mail No: 9589 0710 5270 0852 7499 49

Division of Reclamation, Mining and Safety DRMS c/o Sara Stevenson-Benn 1001 E 62nd Avenue Denver, CO 80216

Re: Incompleteness Response, Financial Warranty and required bonding documents DRMS Permit: M-1997-071, Caldwell-Nesslehuf Pit

Ms. Stevenson-Benn,

In response to the required bonding documents, an updated Performance Warranty signed by Tony Majka, General Manager of Oldcastle SW Group, Inc. dba United Companies, has been prepared and notarized for inclusion in the updated submission package.

A copy of these documents will be sent with the rest of the incompleteness package to DRMS at 1313 Sherman St., Ste. 215, Denver, CO 80203.

We appreciate your time on this matter. If there is anything more you require from us please do not hesitate to reach out.

Thanks,

Sara Weimer

EHS

Oldcastle SW Group, Inc.

STATE OF COLORADO

DIVISION OF RECLAMATION, MINING AND SAFETY Department of Natural Resources

1313 Sherman St., Room 215 Denver, Colorado 80203 Phone: (303) 866-3567 FAX: (303) 832-8106



PERFORMANCE WARRANTY

Operator:	Oldcastle SW Group, Inc. dba United Companies	
Operation:	Caldwell-Nesslehuf Pit No. 1	
Permit Number:	M-1997-071	

This form has been approved by the Mined Land Reclamation Board ("Board") pursuant to the Mined Land Reclamation Act (C.R.S. § 34-32-101 et. seq.) ("Hard Rock Act") and associated Rules (2 C.C.R. 407-1) ("Hard Rock Rules") and the Land Reclamation Act for the Extraction of Construction Materials (C.R.S. § 34-32.5-101 et. seq.) ("Construction Materials Act") and associated Rules (2 C.C.R. 407-4) ("Construction Materials Rules"). Any alteration or modification of this form, without approval by the Board shall result in the performance warranty being invalid and result in the voiding of any permit issued in conjunction with such invalid performance warranty and subject the operator to cease and desist orders and civil penalties for operating without a permit pursuant to sections 34-32-123, C.R.S. of the Hard Rock Act and 34-32.5-123, C.R.S. of Construction Materials Act.

KNOW ALL MEN BY THESE PRESENTS, THAT:

WHEREAS, the Colorado Mined Land Reclamation Act, C.R.S. § 34-32-101 et seq. (the "Hardrock Act"), as amended, and the Colorado Land Reclamation Act for the Extraction of Construction Materials, C.R.S. § 34-32.5-101 et seq. (the "Construction Materials Act"), as amended (collectively the "Acts"), provide that no permit may be issued until the Mined Land Reclamation Board (the "Board") receives a performance warranty consisting of the Operator's written promise to comply with the requirements of the Hardrock or Construction Materials Act, whichever is applicable.

WHEREAS, Oldcastle SW Group, Inc. dba United Com	operator"), has applied for a
permit to conduct a mining operation known as	Caldwell-Nesslehuf Pit No. 1
(the "Operation") on certain lands in Crowley	County, Colorado. These
lands are described in the permit application, as am	ended and supplemented, and are referred to
herein as the "Affected Lands."	**

WHEREAS, in its application for the permit, the Operator has agreed to be bound by all requirements of the Hardrock or Construction Materials Act and all applicable rules and regulations of the Board, as amended from time to time.

WHEREAS, the Operator hereby gives the Board this performance warranty pursuant to C.R.S. §§ 34-32-117(2) or 34-32.5-117(2), and herein promises the Board that it will comply with all applicable requirements of the Hardrock or Construction Materials Act.

NOW, THEREFORE, The Operator hereby promises the Board that it will comply with all applicable requirements of the Hard Rock or Construction Materials Act and applicable rules and regulations of the Board.

The Operator hereby promises the Board that it will comply with all of the terms of the application for a permit, as amended and supplemented, as well as any conditions attached to the permit by the Board.

The Operator promises the Board, pursuant to C.R.S. §§ 34-32-112(1)(d) or 34-32.5-112(1)(b)(IV), that it has the lawful authority to enter upon the Affected Lands to conduct mining operations, including, but not limited to, reclamation. The Operator further recognizes the right of the Board to enter to reclaim lands affected by the Operation.

The description of lands herein is for convenience of reference only, and no error in such description, revision of the permitted mining area, or disturbance by the Operator of lands outside of the permitted mining area shall alter or diminish the Operator's obligation hereunder, which shall extend to the reclamation of all such lands disturbed.

The obligation of the Operator hereunder is such that, if the Operator shall successfully comply with the requirements of the Hardrock or Construction Materials Act, applicable rules and regulations, and the permit, then the Board, upon a finding that the Operator has so complied, shall release this performance warranty, and the Operator from its obligation hereunder. The obligation of the Operator hereunder shall continue until released by the Board in accordance with applicable law.

The Operator promises to be responsible for the cost of reclamation up to the amount established by the Board and has attached hereto its financial warranty, in accordance with C.R.S. §§ 34-32-117(3) or 34-32.5-117(3). The Operator agrees that it will maintain a financial warranty (or warranties) covering the Board's estimated costs of reclamation in good standing for the entire life of the permit. If the Operator is a unit of County or Municipal government, or is a department or division of State government, the Operator is not required to submit or post any other instrument of financial responsibility but hereby promises to be responsible for the cost of reclamation up to the amount specified by the Board.

If the Board determines that the Operator is in default under this performance warranty and has failed to cure such default, although written notice of such default and ample time to cure such default have been given, the Operator's financial warranty shall be subject to forfeiture.

This performance warranty may be executed in multiple copies, each of which shall be treated as an original, but together they constitute only one agreement, the validity and interpretation of which shall be governed by the laws of the State of Colorado. The provisions hereof shall bind and inure to the benefit of the parties hereto and their successors and assigns.

SIGNED, SEALED AND D	ATED this	day of July , 2025.
	0	COMPUTATION.
	Operator	HATTER SALVER SA
	Ву:	Tony Majka
	Title:	General Manager
		General Manager
STATE OF Colorado	ZATION OF	OPERATOR'S ACKNOWLEDGEMENT
COUNTY OF Jefferson)	SS.:
The foregoing instrument w	as acknowled	lged before me this 22 day of July 2025,
by long magon	as 4	and alba United Company
SARA BETH WEIMER NOTARY PUBLIC STATE OF COLORADO NOTARY ID 202340016 MY COMMISSION EXPIRES JANUARY STATE OF COLORADO	75 (12, 2027	My Commission Expires January 12, 2027
DEPARTMENT OF NATURAL MINED LAND RECLAMATION		S
DIVISION OF RECLAMATION		ND SAFETY
By: Division Dire	ctor	Date Executed:

Rev. 05/12

Caldwell-Nesslehuff Pit #1

Structure	Structure Owner	Distance (ft)
Electric Line	Tri-State Generation and Inside permit	
	Transmission Association	
Power Poles	Black Hills Energy	Inside permit
County Road A 5/10	Crowley Conty	25

All structure distances measured from the permit boundary. The following slope stability exhibit shows that all structures are sufficiently protected from slope stability risks.

RULE 6.5: GEOTECHNICAL STABILITY EXHIBIT

There are no known geologic hazards on the proposed site. Based on a slope stability analysis, buildings or other structures within 200' of the Caldwell Nesselhuf Pit affected area will not be affected by mining excavation. The mine plan specifies a minimum buffer of 50-ft to the closest structure of powerpoles. A standard slope was analyzed for stability.

The material properties are derived from *Table 2.5* in the *SME Mining Reference Handbook*¹, as there is no site-specific strength data of the material available. Therefore, all materials are matched to a classification from this table that best matches the materials in terms of description. The native alluvial material is best classified as sand and gravel with a mixed grain size. A layer of soil and sand lies atop the sand and gravel deposit. This material is best described as loose sand, mixed grain size. A summary of the material properties can be seen in Table GS-1.

Table GS-1. Material Properties

Material	Unit Weight (lbs/ft)	Cohesion	Friction Angle
Sand and gravel, mixed grain	110	0	45
size			
Loose sand, mixed grain size	99	0	34

The final reclamation (3H:1V) slope was analyzed. The final reclaimed slope crest will be the closest excavation comes to any structures.

1. Reclamation Slopes

Factor of Safety (FOS) is expressed in terms of strength divided by stress as a ratio. It is arrived at by an iterative computer process where a slope failure is assumed, the strength and stress of that slope failure are calculated, and those values are compared to determine a lowest factor of safety. In the case of the Caldwell Nesselhuf Pit slope stability analysis, the Bishop's Method of Slices was the iterative calculation used, and the software GALENA was used to model slopes and calculate the factor of safety. One standard slope (see Figure GS-1) was analyzed to look at the factor of safety. Table GS-2 lists the analysis conducted and their respective factors of safety.

GALENA data tables and analysis result figures are attached as Appendix GS-1.

Lewicki & Associates

¹ Original source: Hoek and Bray 1977

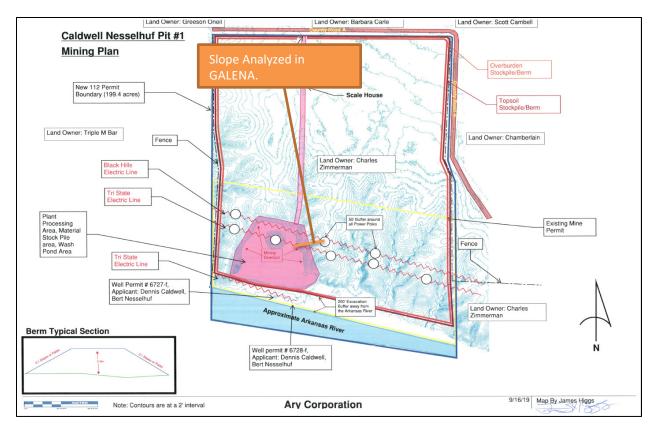


Figure GS-1. Locations of Slope Stability Analysis from Map F-1

Table GS-2. Factors of Safety for Slope Stability

Slope Condition	Lowest Factor of Safety (static)	Lowest Factor of Safety (seismic)	Nearest Structure
Final Reclamation	3.02	2.57	Power poles

2. Conclusion

The Final Reclamation slope has a minimum factor of safety of greater than 1.5 for static conditions. This Factor of Safety is greater than the CDRMS minimum for critical structure of 1.5. The seismic condition analysis is similarly above the CDRMS minimums for critical structures of 1.3.

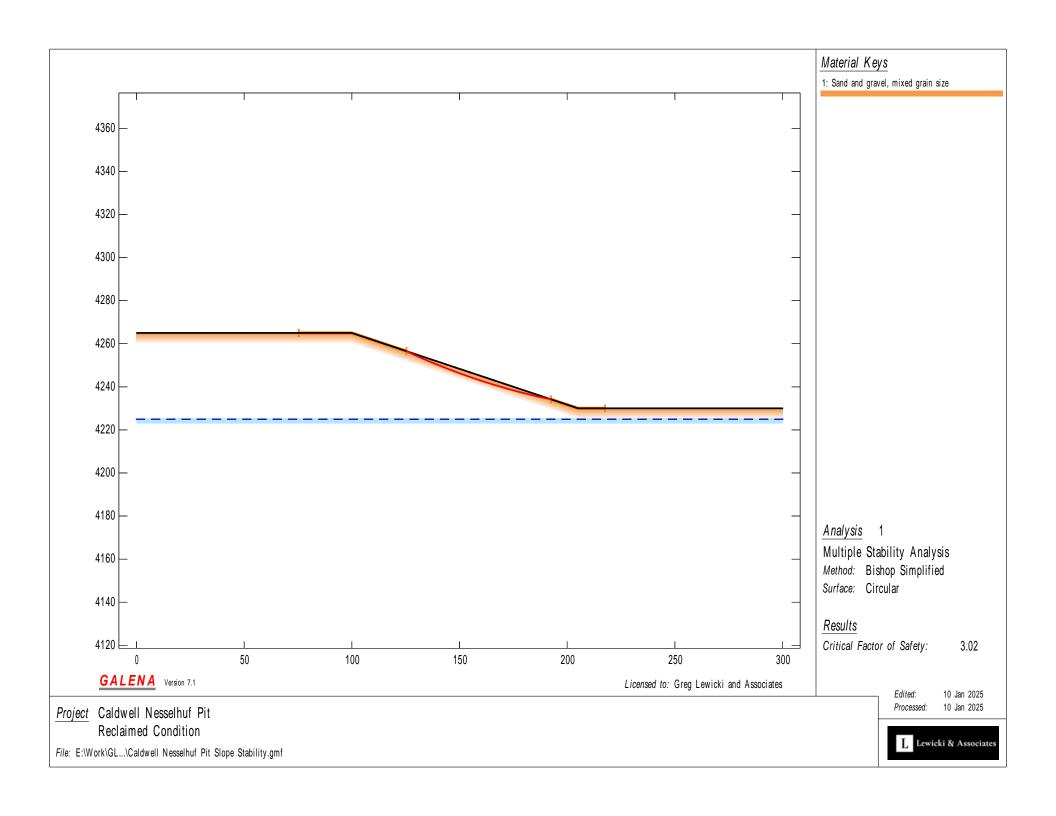
The slope stability analysis in this permit has been prepared according to appropriate engineering standards and practices.

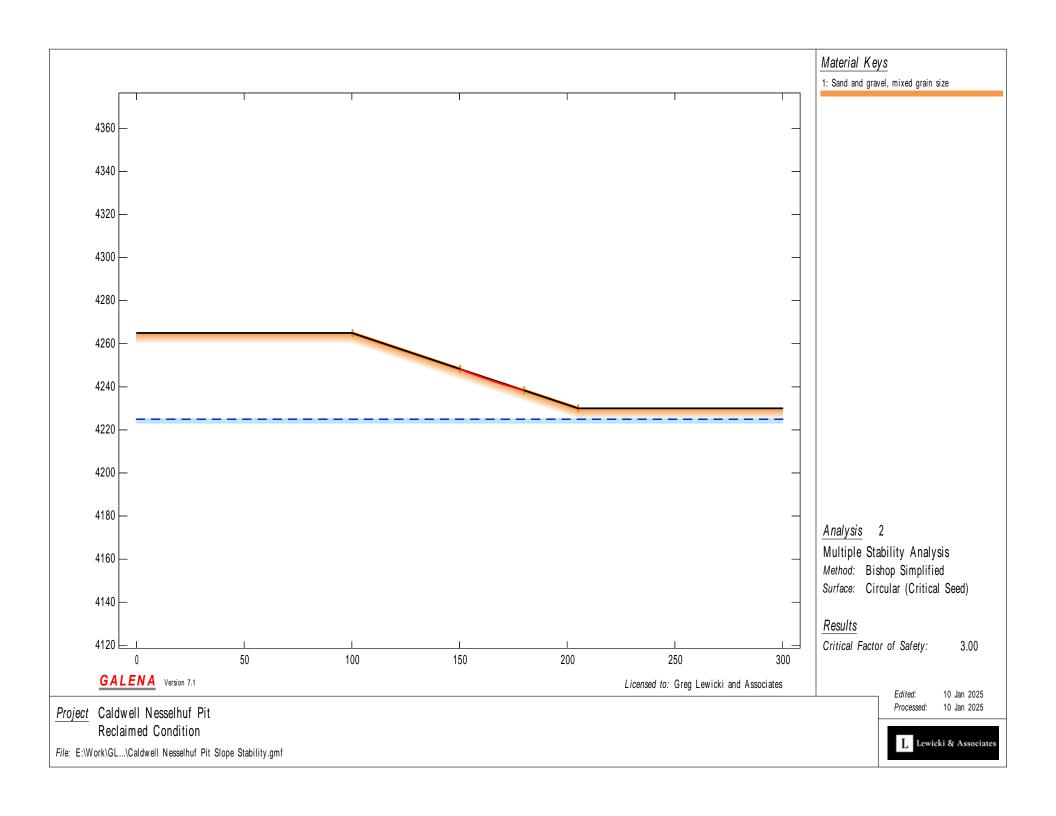


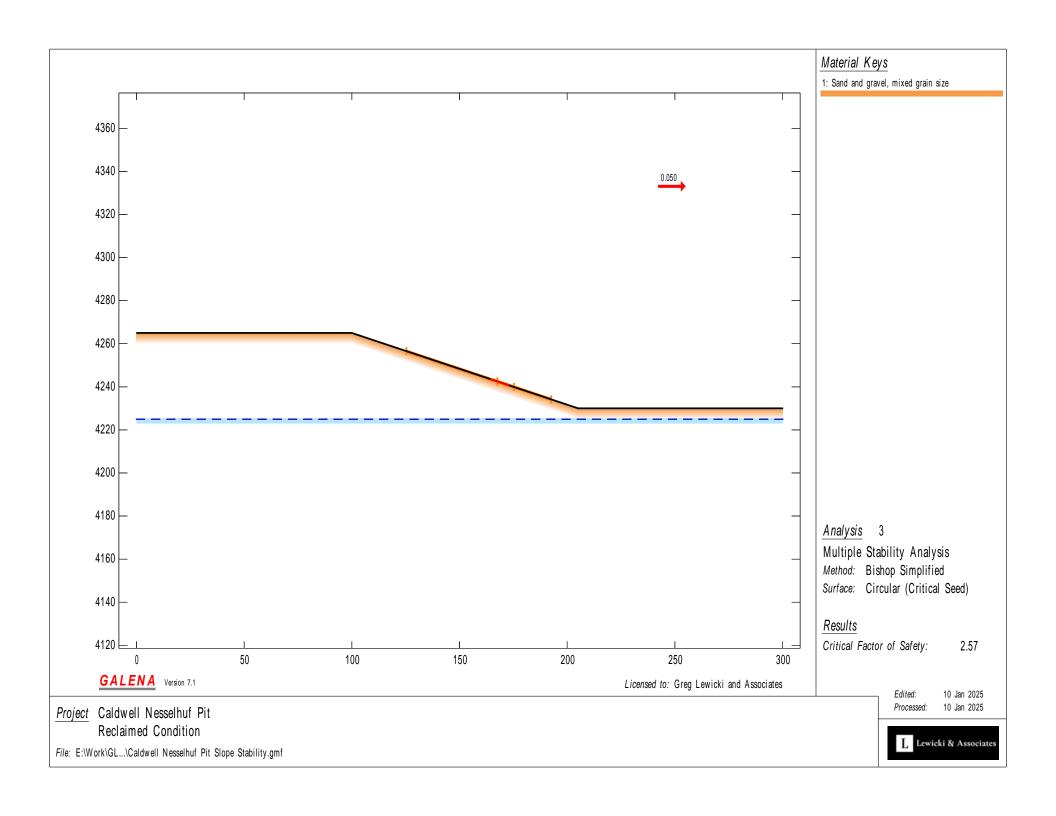
Ben Langenfeld, P.E.

P.E.# 0047151

APPENDIX GS-1 GALENA INFORMATION







Version: 7.10.1.04

Project: Caldwell Nesselhuf Pit

File: E:\Work\GLA Dropbox\Ben Langenfeld\United Companies\Caldwell Nesselhuf\Slo...\Caldwell

Nesselhuf Pit Slope Stability.gmf Processed: 10 Jan 2025 15:28:40

DATA: Analysis 1 - Reclaimed Condition

Material Properties (4 materials)

Material: 1 (Mohr-Coulomb Isotropic) - Sand and gravel, mixed grain size

Cohesion Phi UnitWeight Ru 0.00 45.0 110.00 Auto

Material: 2 (Mohr-Coulomb Isotropic) - OB - loose sand, mixed grain size

Cohesion Phi UnitWeight Ru 0.00 34.0 99.00 Auto

Material: 3 (Mohr-Coulomb Isotropic) - Bedrock - claystone

Cohesion Phi UnitWeight Ru 20000.00 25.0 110.00 Auto

Material: 4 (Mohr-Coulomb Isotropic) - Slurry Wall

Cohesion Phi UnitWeight Ru Unsaturated: 0.00 0.0 112.00 Auto Saturated: 0.00 0.0 115.00 Auto

Water Properties

Unit weight of water: 62.400 Unit weight of water/medium above ground: 0.000

Material Profiles (1 profile)

Profile: 1 (2 points) Material beneath: 1 - Sand and gravel, mixed grain size

0.00 4265.00 300.00 4265.00

Slope Surface (4 points)

0.00 4265.00 100.00 4265.00 205.00 4230.00 300.00 4230.00

Phreatic Surface (2 points)

0.00 4225.00 300.00 4225.00

Piezometric Surfaces (1 surface)

Failure Surface

Initial circular surface for critical search defined by: XL,XR,R

Intersects: XL: 100.30 YL: 4264.90 XR: 205.00 YR: 4230.00 Centre: XC: 245.90 YC: 4527.20 Radius: R: 300.00

Variable Restraints

Parameter descriptor: XL XR R
Range of variation: 50.00 25.00 10.00
Trial positions within range: 10 10 10

RESULTS: Analysis 1 - Reclaimed Condition

Bishop Simplified Method of Analysis - Circular Failure Surface

Critical Failure Surface Search using Multiple Circle Generation Techniques

Factor of Safety for initial failure surface approximation: 3.046

There were: 501 successful analyses from a total of 1001 trial surfaces 500 analyses terminated due to unacceptable geometry

Critical (minimum) Factor of Safety: 3.02

Results Summary - Lowest 99 Factor of Safety circles

Circle X-Left Y-Left X-Right Y-Right X-Centre Y-Centre Radius FoS 125.30 4256.57 192.50 4234.17 254.70 4532.76 305.00 3.018 <-- Critical Surface 1 2 125.30 4256.57 254.34 4531.70 303.89 3.018 192.50 4234.17 3 125.30 4256.57 192.50 4234.17 253.99 4530.63 302.78 3.018 4 125.30 4256.57 192.50 4234.17 253.64 4529.57 301.67 3.018 5 125.30 4256.57 192.50 4234.17 253.28 4528.51 300.56 3.019 6 125.30 4256.57 192.50 4234.17 252.93 4527.45 299.44 3.019 7 125.30 4256.57 192.50 4234.17 252.58 4526.39 298.33 3.019 8 125.30 4256.57 192.50 4234.17 252.22 4525.33 297.22 3.019 9 125.30 4256.57 192.50 4234.17 251.87 4524.27 296.11 3.019 10 125.30 4256.57 192.50 4234.17 251.51 4523.20 295.00 3.019 11 125.30 4256.57 195.28 4233.24 256.03 4532.13 305.00 3.020 12 125.30 4256.57 195.28 4233.24 255.68 4531.07 303.89 3.020 13 125.30 4256.57 195.28 4233.24 255.32 4530.00 302.78 3.020 14 125.30 4256.57 254.97 4528.94 301.67 195.28 4233.24 3.020 125.30 4256.57 254.62 4527.88 300.56 15 195.28 4233.24 3.020 16 125.30 4256.57 195.28 4233.24 254.26 4526.82 299.44 3.020 17 125.30 4256.57 195.28 4233.24 253.91 4525.76 298.33 3.021 125.30 4256.57 4524.69 297.22 18 195.28 4233.24 253.55 3.021 19 125.30 4256.57 195.28 4233.24 253.20 4523.63 296.11 3.021 20 125.30 4256.57 195.28 4233.24 252.85 4522.57 295.00 3.021 21 119.74 4258.42 192.50 4234.17 251.81 4533.34 305.00 3.021 22 125.30 4256.57 198.06 257.36 4531.49 305.00 4232.31 3.021 192.50 23 119.74 4258.42 251.45 4532.28 303.89 3.021 4234.17 24 125.30 4256.57 198.06 4232.31 257.01 4530.43 303.89 3.021 25 125.30 4256.57 198.06 4232.31 256.65 4529.37 302.78 3.022

26	119.74	4258.42	192.50	4234.17	251.10	4531.22	302.78	3.022
27	119.74	4258.42	192.50	4234.17	250.74	4530.16	301.67	3.022
28	125.30	4256.57	198.06	4232.31	256.30	4528.31	301.67	3.022
29	119.74	4258.42	192.50	4234.17	250.39	4529.09	300.56	3.022
30	125.30	4256.57	198.06	4232.31	255.95	4527.24	300.56	3.022
31	119.74	4258.42	192.50	4234.17	250.04	4528.03	299.44	3.022
32	125.30	4256.57	198.06	4232.31	255.59	4526.18	299.44	3.022
33	119.74	4258.42	192.50	4234.17	249.68	4526.97	298.33	3.022
34	125.30	4256.57	198.06	4232.31	255.24	4525.12	298.33	3.022
35	119.74	4258.42	192.50	4234.17	249.33	4525.12	297.22	3.022
		4256.57	192.30					
36	125.30			4232.31	254.88	4524.05	297.22	3.022
37	125.30	4256.57	198.06	4232.31	254.53	4522.99	296.11	3.023
38	119.74	4258.42	192.50	4234.17	248.97	4524.84	296.11	3.023
39	119.74	4258.42	192.50	4234.17	248.62	4523.78	295.00	3.023
40	125.30	4256.57	198.06	4232.31	254.17	4521.93	295.00	3.023
41	119.74	4258.42	195.28	4233.24	253.14	4532.70	305.00	3.023
42	125.30	4256.57	200.83	4231.39	258.69	4530.85	305.00	3.023
43	119.74	4258.42	195.28	4233.24	252.78	4531.64	303.89	3.023
44	125.30	4256.57	200.83	4231.39	258.34	4529.79	303.89	3.023
45	125.30	4256.57	200.83	4231.39	257.98	4528.72	302.78	3.023
46	119.74	4258.42	195.28	4233.24	252.43	4530.58	302.78	3.023
47	119.74	4258.42	195.28	4233.24	252.07	4529.51	301.67	3.023
48	125.30	4256.57	200.83	4231.39	257.63	4527.66	301.67	3.023
49	125.30	4256.57	200.83	4231.39	257.27	4526.60	300.56	3.024
50	119.74	4258.42	195.28	4233.24	251.72	4528.45	300.56	3.024
51	119.74	4258.42	195.28	4233.24	251.36	4527.39	299.44	3.024
52	125.30	4256.57	200.83	4231.39	256.92	4525.53	299.44	3.024
53	119.74	4258.42	195.28	4233.24	251.01	4526.32	298.33	3.024
54	125.30	4256.57	200.83	4231.39	256.57	4524.47	298.33	3.024
55	125.30	4256.57	200.83	4231.39	256.21	4523.41	297.22	3.024
56	119.74	4258.42	195.28	4233.24	250.65	4525.26	297.22	3.024
57	125.30	4256.57	200.83	4231.39	255.86	4522.34	296.11	3.024
58	119.74	4258.42	195.28	4233.24	250.30	4524.19	296.11	3.024
59	125.30	4256.57	200.83	4231.39	255.50	4521.28	295.00	3.025
60	119.74	4258.42	195.28	4233.24	249.94	4523.13	295.00	3.025
61	125.30	4256.57	203.61	4230.46	260.02	4530.20	305.00	3.025
62	114.19	4260.27	192.50	4234.17	248.91	4533.90	305.00	3.025
63	119.74	4258.42	198.06	4232.31	254.46	4532.05	305.00	3.025
64	125.30	4256.57	203.61	4230.46	259.66	4529.14	303.89	3.025
65	114.19	4260.27	192.50	4234.17	248.55	4532.84	303.89	3.025
66	119.74	4258.42	192.06	4232.31	254.11	4530.99	303.89	3.025
		4256.57	203.61	4232.31				
67 60	125.30				259.31	4528.07	302.78	3.025
68	119.74	4258.42	198.06	4232.31	253.75	4529.93	302.78	3.025
69	114.19	4260.27	192.50	4234.17	248.20	4531.78	302.78	3.025
70	114.19	4260.27	192.50	4234.17	247.84	4530.71	301.67	3.025
71	119.74	4258.42	198.06	4232.31	253.40	4528.86	301.67	3.025
72	125.30	4256.57	203.61	4230.46	258.95	4527.01	301.67	3.025
73	119.74	4258.42	198.06	4232.31	253.04	4527.80	300.56	3.025
74	114.19	4260.27	192.50	4234.17	247.49	4529.65	300.56	3.025
75 	125.30	4256.57	203.61	4230.46	258.60	4525.95	300.56	3.025
76	114.19	4260.27	192.50	4234.17	247.13	4528.58	299.44	3.026
77 	119.74	4258.42	198.06	4232.31	252.69	4526.73	299.44	3.026
78	125.30	4256.57	203.61	4230.46	258.25	4524.88	299.44	3.026

79	114.19	4260.27	192.50	4234.17	246.78	4527.52	298.33	3.026
80	125.30	4256.57	203.61	4230.46	257.89	4523.82	298.33	3.026
81	119.74	4258.42	198.06	4232.31	252.33	4525.67	298.33	3.026
82	119.74	4258.42	198.06	4232.31	251.98	4524.60	297.22	3.026
83	114.19	4260.27	192.50	4234.17	246.42	4526.46	297.22	3.026
84	125.30	4256.57	203.61	4230.46	257.54	4522.75	297.22	3.026
85	119.74	4258.42	198.06	4232.31	251.62	4523.54	296.11	3.026
86	114.19	4260.27	192.50	4234.17	246.07	4525.39	296.11	3.026
87	125.30	4256.57	203.61	4230.46	257.18	4521.69	296.11	3.026
88	119.74	4258.42	198.06	4232.31	251.27	4522.48	295.00	3.026
89	114.19	4260.27	192.50	4234.17	245.72	4524.33	295.00	3.026
90	125.30	4256.57	203.61	4230.46	256.83	4520.62	295.00	3.026
91	119.74	4258.42	200.83	4231.39	255.79	4531.40	305.00	3.026
92	114.19	4260.27	195.28	4233.24	250.23	4533.25	305.00	3.026
93	119.74	4258.42	200.83	4231.39	255.43	4530.33	303.89	3.027
94	114.19	4260.27	195.28	4233.24	249.88	4532.18	303.89	3.027
95	119.74	4258.42	200.83	4231.39	255.08	4529.27	302.78	3.027
96	114.19	4260.27	195.28	4233.24	249.52	4531.12	302.78	3.027
97	114.19	4260.27	195.28	4233.24	249.17	4530.06	301.67	3.027
98	119.74	4258.42	200.83	4231.39	254.72	4528.20	301.67	3.027
99	119.74	4258.42	200.83	4231.39	254.37	4527.14	300.56	3.027

Critical Failure Surface (circle 1)

Intersects: XL: 125.30 YL: 4256.57 XR: 192.50 YR: 4234.17
Centre: XC: 254.70 YC: 4532.76 Radius: R: 305.00

Generated failure surface: (20 points)
125.30 4256.57 128.69 4255.00 132.11 4253.48 135.54 4252.00 138.98 4250.56
142.45 4249.16 145.93 4247.81 149.43 4246.50 152.95 4245.23 156.48 4244.01

 142.45
 4249.16
 145.93
 4247.81
 149.43
 4246.50
 152.95
 4245.23
 156.48
 4244.01

 160.02
 4242.82
 163.58
 4241.69
 167.15
 4240.59
 170.74
 4239.54
 174.34
 4238.53

 177.95
 4237.57
 181.57
 4236.65
 185.20
 4235.78
 188.85
 4234.95
 192.50
 4234.17

Slice Geometry and Properties - Critical Failure Surface (circle 1, 38 slices)

-----PoreWater Slice X-S ------ Base -----Normal Test Phi Weight X-Left Area Angle Width Length Matl Cohesion Force Stress Factor 1 125.30 0.18 24.8 1.70 1.87 1 0.00 45.0 20.14 0.00 10.30 0.96 2 127.00 0.55 24.8 1.70 1.87 1 0.00 45.0 60.60 0.00 30.98 0.96 3 128.69 0.90 24.0 1.71 1.87 0.00 45.0 99.43 0.00 50.77 0.95 1 4 130.40 1.23 24.1 1.71 1.87 1 0.00 45.0 135.53 0.00 69.20 0.95 5 132.11 1.55 23.3 1.72 1.87 1 0.00 45.0 170.34 0.00 86.89 0.95 23.3 45.0 103.10 0.95 6 133.82 1.84 1.72 1.87 0.00 202.13 0.00 7 135.54 22.7 45.0 232.92 118.67 0.95 2.12 1.72 1.87 0.00 0.00 22.6 8 137.26 2.37 1.72 1.87 1 0.00 45.0 260.33 0.00 132.65 0.95 9 138.98 2.61 21.9 1.73 0.00 45.0 286.95 0.00 146.09 0.95 1.87 2.82 21.9 10 140.72 1.73 0.00 45.0 309.94 0.00 157.79 0.95 1.87 1 11 142.45 3.02 21.2 1.74 1.87 1 0.00 45.0 332.22 0.00 169.02 0.95 12 144.19 3.19 21.3 1.74 1.87 0.00 45.0 350.74 0.00 178.42 0.95 13 145.93 3.35 20.5 1.75 1.87 0.00 45.0 368.63 0.00 187.45 0.95 14 147.68 3.48 20.5 1.75 0.00 45.0 382.54 0.00 194.50 0.95 1.87 1 15 149.43 3.60 19.8 0.00 45.0 395.89 0.00 201.20 0.95 1.76 1.87 16 151.19 3.68 19.8 1.76 1.87 1 0.00 45.0 405.32 0.00 206.02 0.95 17 152.95 3.76 19.1 1.76 1.87 1 0.00 45.0 413.99 0.00 210.37 0.95

```
18
    154.71
                         1.76 1.87 1
                                         0.00 45.0
                                                      418.64
                                                                0.00
                                                                       212.73 0.95
             3.81 19.1
19
    156.48
             3.84 18.4
                         1.77
                               1.87
                                     1
                                         0.00 45.0
                                                      422.79
                                                                0.00
                                                                       214.79 0.95
20
    158.25
             3.84 18.4
                         1.77
                               1.87
                                         0.00 45.0
                                                      422.88
                                                                0.00
                                                                       214.85 0.95
21
                                                      422.16
                                                                0.00
                                                                       214.52 0.95
    160.02
             3.84 17.7
                         1.78
                              1.87
                                         0.00 45.0
                                     1
22
    161.80
             3.79 17.7
                         1.78
                               1.87
                                     1
                                         0.00 45.0
                                                      417.39
                                                                0.00
                                                                       212.09 0.95
23
    163.58
             3.74 17.0
                                         0.00 45.0
                                                      411.91
                                                                0.00
                                                                       209.33 0.95
                         1.79
                               1.87
                                     1
24
    165.37
                              1.87
                                         0.00 45.0
                                                      402.51
                                                                0.00
                                                                       204.55 0.95
             3.66 17.0
                         1.79
                                     1
25
    167.15
             3.56 16.3
                         1.79
                               1.87
                                         0.00 45.0
                                                      392.03
                                                                0.00
                                                                       199.32 0.95
                                     1
26
    168.95
             3.43 16.3
                         1.79
                               1.87
                                     1
                                         0.00 45.0
                                                      377.78
                                                                0.00
                                                                       192.06 0.95
27
    170.74
             3.29 15.6
                         1.80
                               1.87
                                         0.00 45.0
                                                      362.40
                                                                0.00
                                                                       184.33 0.95
                                     1
28
    172.54
             3.12 15.6
                         1.80
                               1.87
                                     1
                                         0.00 45.0
                                                      343.26
                                                                0.00
                                                                       174.60 0.95
29
    174.34
             2.94 14.9
                         1.81
                               1.87
                                     1
                                         0.00 45.0
                                                      322.97
                                                                0.00
                                                                       164.40 0.95
30
    176.14
             2.72 14.9
                         1.81
                               1.87
                                         0.00 45.0
                                                      298.93
                                                                0.00
                                                                       152.15 0.95
31
    177.95
             2.49 14.2
                                         0.00 45.0
                                                      273.53
                                                                0.00
                                                                       139.34 0.95
                         1.81
                               1.87
                                     1
32
             2.22 14.2
                                         0.00 45.0
                                                                0.00
                                                                       124.67 0.95
    179.76
                         1.81
                               1.87
                                     1
                                                      244.74
33
    181.57
             1.95 13.5
                         1.82
                               1.87
                                         0.00 45.0
                                                      214.15
                                                                0.00
                                                                       109.19 0.95
34
    183.39
             1.64 13.5
                         1.82
                               1.87
                                         0.00 45.0
                                                      180.40
                                                                0.00
                                                                       91.99 0.95
                                     1
35
    185.20
             1.32 12.8
                         1.82
                               1.87
                                     1
                                         0.00 45.0
                                                      144.72
                                                                0.00
                                                                       73.87 0.95
36
                                         0.00 45.0
                                                                0.00
                                                                       54.19 0.95
    187.03
             0.97 12.8
                         1.82
                               1.87
                                                      106.16
37
                                                       65.34
                                                               0.00
                                                                       33.40 0.95
    188.85
             0.59 12.1
                         1.83
                               1.87
                                     1
                                         0.00 45.0
38
             0.20 12.1
                                         0.00 45.0
                                                       21.78
                                                               0.00
                                                                       11.13 0.95
    190.67
                         1.83
                               1.87
                                     1
```

X-S Area: 97.22 Path Length: 70.99 X-S Weight: 10694.09

DATA: Analysis 2 - Reclaimed Condition

Material Properties (4 materials)

Material: 1 (Mohr-Coulomb Isotropic) - Sand and gravel, mixed grain size

Cohesion Phi UnitWeight Ru 0.00 45.0 110.00 Auto

Material: 2 (Mohr-Coulomb Isotropic) - OB - loose sand, mixed grain size

Cohesion Phi UnitWeight Ru 0.00 34.0 99.00 Auto

Material: 3 (Mohr-Coulomb Isotropic) - Bedrock - claystone

Cohesion Phi UnitWeight Ru 20000.00 25.0 110.00 Auto

Material: 4 (Mohr-Coulomb Isotropic) - Slurry Wall

Cohesion Phi UnitWeight Ru Unsaturated: 0.00 0.0 112.00 Auto Saturated: 0.00 0.0 115.00 Auto

Water Properties

Unit weight of water: 62.400 Unit weight of water/medium above ground: 0.000

Material Profiles (1 profile)

Profile: 1 (2 points) Material beneath: 1 - Sand and gravel, mixed grain size

0.00 4265.00 300.00 4265.00

Slope Surface (4 points)

0.00 4265.00 100.00 4265.00 205.00 4230.00 300.00 4230.00

Phreatic Surface (2 points)

0.00 4225.00 300.00 4225.00

Piezometric Surfaces (1 surface)

Failure Surface (Critical, from previous analysis)

Initial circular surface for critical search defined by: XL,XR,R

Intersects: XL: 125.30 YL: 4256.57 XR: 192.50 YR: 4234.17 Centre: XC: 254.70 YC: 4532.76 Radius: R: 305.00

Variable Restraints

Parameter descriptor: XL XR R Range of variation: 50.00 25.00 10.00 Trial positions within range: 10 10 10

RESULTS: Analysis 2 - Reclaimed Condition

Bishop Simplified Method of Analysis - Circular Failure Surface

Critical Failure Surface Search using Multiple Circle Generation Techniques

Factor of Safety for initial failure surface approximation: 3.018

There were: 1001 successful analyses from a total of 1001 trial surfaces

Critical (minimum) Factor of Safety: 3.00

Results Summary - Lowest 99 Factor of Safety circles

Circle	e X-Left	Y-Left	X-Right	Y-Right	X-Centre	Y-Centre	Radius	FoS	
1	150.30	4248.23	180.00	4238.33	263.05	4537.00	310.00	3.003	< Critical Surface
2	150.30	4248.23	180.00	4238.33	262.70	4535.94	308.89	3.003	
3	150.30	4248.23	180.00	4238.33	262.35	4534.89	307.78	3.003	
4	150.30	4248.23	180.00	4238.33	262.00	4533.83	306.67	3.003	
5	150.30	4248.23	180.00	4238.33	261.65	4532.78	305.56	3.003	
6	150.30	4248.23	180.00	4238.33	261.30	4531.72	304.44	3.004	
7	150.30	4248.23	180.00	4238.33	260.94	4530.67	303.33	3.004	
8	150.30	4248.23	180.00	4238.33	260.59	4529.61	302.22	3.004	
9	150.30	4248.23	180.00	4238.33	259.89	4527.50	300.00	3.004	
10	150.30	4248.23	180.00	4238.33	3 260.24	4528.56	301.11	3.004	

11	150.30	4248.23	182.78	4237.41	264.42	4536.46	310.00	3.004
12	150.30	4248.23	182.78	4237.41	263.37	4533.30	306.67	3.004
13	150.30	4248.23	182.78	4237.41	263.01	4532.24	305.56	3.004
14	150.30	4248.23	182.78	4237.41	263.72	4534.35	307.78	3.004
15	150.30	4248.23	182.78	4237.41	264.07	4535.41	308.89	3.004
16	150.30	4248.23	182.78	4237.41	262.66	4531.18	304.44	3.004
17	150.30	4248.23	182.78	4237.41	262.31	4530.13	303.33	3.004
18	150.30	4248.23	182.78	4237.41	261.61	4528.02	301.11	3.004
19	150.30	4248.23	182.78	4237.41	261.96	4529.07	302.22	3.004
20	150.30	4248.23	182.78	4237.41	261.25	4526.96	300.00	3.004
21	144.74	4250.08	180.00	4238.33	260.22	4537.77	310.00	3.005
22	150.30	4248.23	185.56	4236.48	265.78	4535.92	310.00	3.005
23	150.30	4248.23	185.56	4236.48	265.43	4534.86	308.89	3.005
24	144.74	4250.08	180.00	4238.33	259.87	4536.72	308.89	3.005
25	150.30	4248.23	185.56	4236.48	264.37	4531.70	305.56	3.005
26	150.30	4248.23	185.56	4236.48	264.73	4532.75	306.67	3.005
27	150.30	4248.23	185.56	4236.48	265.08	4533.81	307.78	3.005
28	144.74	4250.08	180.00	4238.33	259.52	4535.66	307.78	3.005
29	144.74	4250.08	180.00	4238.33	258.82	4533.55	305.56	3.005
30	144.74	4250.08	180.00	4238.33	259.17	4534.60	306.67	3.005
31	144.74	4250.08	180.00	4238.33	258.46	4532.49	304.44	3.005
32	150.30	4248.23	185.56	4236.48	264.02	4530.64	304.44	3.005
33	144.74	4250.08	180.00	4238.33	258.11	4531.44	303.33	3.005
34	150.30	4248.23	185.56	4236.33	263.67	4529.58	303.33	3.005
35	144.74	4240.23	180.00	4238.33	257.76	4529.56	303.33	3.005
36	150.30	4248.23	185.56	4236.33	263.32	4528.53	302.22	3.005
37	144.74	4250.08	180.00	4238.33	257.41	4529.32	301.11	3.005
38	150.30	4248.23	185.56	4236.48	262.61	4526.42	300.00	3.005
39	150.30	4248.23	185.56	4236.48	262.97	4527.47	301.11	3.005
40	144.74	4250.08	180.00	4238.33	257.06	4528.27	300.00	3.005
41	150.30	4248.23	188.33	4235.56	266.79	4534.31	308.89	3.006
42	150.30	4248.23	188.33	4235.56	267.14	4535.37	310.00	3.006
43	144.74	4250.08	182.78	4237.41	261.23	4536.17	308.89	3.006
44	144.74	4250.08	182.78	4237.41	261.59	4537.22	310.00	3.006
45	150.30	4248.23	188.33	4235.56	266.44	4533.26	307.78	3.006
46	150.30	4248.23	188.33	4235.56	266.09	4532.20	306.67	3.006
47	144.74	4250.08	182.78	4237.41	260.88	4535.11	307.78	3.006
48	144.74	4250.08	182.78	4237.41	260.18	4533.00	305.56	3.006
49	144.74	4250.08	182.78	4237.41	260.53	4534.05	306.67	3.006
50	150.30	4248.23	188.33	4235.56	265.73	4531.15	305.56	3.006
51	144.74	4250.08	182.78	4237.41	259.83	4531.94	304.44	3.006
52	150.30	4248.23	188.33	4235.56	265.03	4529.03	303.33	3.006
53	150.30	4248.23	188.33	4235.56	265.38	4530.09	304.44	3.006
54	150.30	4248.23	188.33	4235.56	264.68	4527.98	302.22	3.006
55	144.74	4250.08	182.78	4237.41	259.47	4530.88	303.33	3.006
56	144.74	4250.08	182.78	4237.41	259.12	4529.83	302.22	3.006
57	150.30	4248.23	188.33	4235.56	263.97	4525.86	300.00	3.006
58	150.30	4248.23	188.33	4235.56	264.32	4526.92	301.11	3.006
59	144.74	4250.08	182.78	4237.41	258.42	4527.72	300.00	3.006
60	144.74	4250.08	182.78	4237.41	258.77	4528.77	301.11	3.006
61	139.19	4251.94	180.00	4238.33	257.39	4538.52	310.00	3.006
62	150.30	4248.23	191.11	4234.63	268.50	4534.81	310.00	3.006
63	150.30	4248.23	191.11	4234.63	268.15	4533.76	308.89	3.006

64	144.74	4250.08	185.56	4236.48	262.94	4536.67	310.00	3.006
65	144.74	4250.08	185.56	4236.48	262.59	4535.61	308.89	3.006
66	139.19	4251.94	180.00	4238.33	257.04	4537.46	308.89	3.006
67	150.30	4248.23	191.11	4234.63	267.80	4532.70	307.78	3.006
68	139.19	4251.94	180.00	4238.33	256.68	4536.41	307.78	3.006
69	144.74	4250.08	185.56	4236.48	262.24	4534.55	307.78	3.006
70	144.74	4250.08	185.56	4236.48	261.89	4533.50	306.67	3.007
71	139.19	4251.94	180.00	4238.33	256.33	4535.35	306.67	3.007
72	150.30	4248.23	191.11	4234.63	267.45	4531.64	306.67	3.007
73	139.19	4251.94	180.00	4238.33	255.98	4534.29	305.56	3.007
74	144.74	4250.08	185.56	4236.48	261.53	4532.44	305.56	3.007
75	150.30	4248.23	191.11	4234.63	267.09	4530.59	305.56	3.007
76	139.19	4251.94	180.00	4238.33	255.63	4533.24	304.44	3.007
77	144.74	4250.08	185.56	4236.48	261.18	4531.38	304.44	3.007
78	150.30	4248.23	191.11	4234.63	266.39	4528.47	303.33	3.007
79	144.74	4250.08	185.56	4236.48	260.83	4530.33	303.33	3.007
80	150.30	4248.23	191.11	4234.63	266.74	4529.53	304.44	3.007
81	139.19	4251.94	180.00	4238.33	255.27	4532.18	303.33	3.007
82	150.30	4248.23	191.11	4234.63	266.04	4527.42	302.22	3.007
83	144.74	4250.08	185.56	4236.48	260.48	4529.27	302.22	3.007
84	139.19	4251.94	180.00	4238.33	254.92	4531.12	302.22	3.007
85	139.19	4251.94	180.00	4238.33	254.57	4530.06	301.11	3.007
86	144.74	4250.08	185.56	4236.48	260.13	4528.21	301.11	3.007
87	150.30	4248.23	191.11	4234.63	265.33	4525.30	300.00	3.007
88	144.74	4250.08	185.56	4236.48	259.77	4527.16	300.00	3.007
89	150.30	4248.23	191.11	4234.63	265.68	4526.36	301.11	3.007
90	139.19	4251.94	180.00	4238.33	254.22	4529.01	300.00	3.007
91	150.30	4248.23	193.89	4233.70	269.86	4534.25	310.00	3.007
92	144.74	4250.08	188.33	4235.56	264.30	4536.10	310.00	3.007
93	139.19	4251.94	182.78	4237.41	258.75	4537.96	310.00	3.007
94	150.30	4248.23	193.89	4233.70	269.50	4533.19	308.89	3.007
95	139.19	4251.94	182.78	4237.41	258.39	4536.90	308.89	3.007
96	144.74	4250.08	188.33	4235.56	263.95	4535.05	308.89	3.007
97	144.74	4250.08	188.33	4235.56	263.59	4533.99	307.78	3.007
98	150.30	4248.23	193.89	4233.70	268.80	4531.08	306.67	3.007
99	139.19	4251.94	182.78	4237.41	257.69	4534.78	306.67	3.007

Critical Failure Surface (circle 1)

Intersects: XL: 150.30 YL: 4248.23 XR: 180.00 YR: 4238.33 Centre: XC: 263.05 YC: 4537.00 Radius: R: 310.00

Generated failure surface: (20 points)

_										
	150.30	4248.23	151.84	4247.64	153.38	4247.05	154.92	4246.47	156.47	4245.90
	158.02	4245.34	159.57	4244.78	161.12	4244.24	162.68	4243.70	164.24	4243.17
	165.81	4242.65	167.37	4242.14	168.94	4241.63	170.52	4241.13	172.09	4240.65
	173.67	4240.17	175.25	4239.70	176.83	4239.23	178.41	4238.78	180.00	4238.33

Slice Geometry and Properties - Critical Failure Surface (circle 1, 38 slices)

Slic	ce	X-S			Base				F	oreWater	Norm	nal Test	
	X-Left	Area	Angle	Width	Lengtl	n Mat	l Co	hesion	Phi	Weight	Force	Stress	Factor
1	150.30	0.0	2 21.2	0.77	0.82	1	0.00	45.0	1.78	0.00	2.05	0.95	
2	151 07	0.01	5 21 2	0.77	0.82	1	n nn	45 O	5 28	0.00	6.09	0.95	

3	151.84	0.08	20.9	0.77	0.82	1	0.00	45.0	8.60	0.00	9.91 0.95
4	152.61	0.11	20.9	0.77	0.82	1	0.00	45.0	11.75	0.00	13.54 0.95
5	153.38	0.13	20.6	0.77	0.82	1	0.00	45.0	14.67	0.00	16.90 0.95
6	154.15	0.16	20.6	0.77	0.82	1	0.00	45.0	17.45	0.00	20.10 0.95
7	154.92	0.18	20.2	0.77	0.82	1	0.00	45.0	19.97	0.00	23.01 0.95
8	155.69	0.20	20.3	0.77	0.82	1	0.00	45.0	22.38	0.00	25.78 0.95
9	156.47	0.22	20.0	0.77	0.82	1	0.00	45.0	24.55	0.00	28.27 0.95
10	157.24	0.24	20.0	0.77	0.82	1	0.00	45.0	26.55	0.00	30.57 0.95
11	158.02	0.26	19.7	0.78	0.82	1	0.00	45.0	28.39	0.00	32.69 0.95
12	158.79	0.27	19.6	0.78	0.82	1	0.00	45.0	29.93	0.00	34.47 0.95
13	159.57	0.29	19.3	0.78	0.82	1	0.00	45.0	31.41	0.00	36.16 0.95
14	160.35	0.30	19.4	0.78	0.82	1	0.00	45.0	32.58	0.00	37.50 0.95
15	161.12	0.31	19.0	0.78	0.82	1	0.00	45.0	33.64	0.00	38.74 0.95
16	161.90	0.31	19.1	0.78	0.82	1	0.00	45.0	34.44	0.00	39.65 0.95
17	162.68	0.32	18.8	0.78	0.82	1	0.00	45.0	35.05	0.00	40.34 0.95
18	163.46	0.32	18.7	0.78	0.82	1	0.00	45.0	35.47	0.00	40.83 0.95
19	164.24	0.32	18.4	0.78	0.82	1	0.00	45.0	35.74	0.00	41.14 0.95
20	165.03	0.32	18.4	0.78	0.82	1	0.00	45.0	35.70	0.00	41.10 0.95
21	165.81	0.32	18.1	0.78	0.82	1	0.00	45.0	35.59	0.00	40.97 0.95
22	166.59	0.32	18.2	0.78	0.82	1	0.00	45.0	35.17	0.00	40.48 0.95
23	167.37	0.31	17.8	0.78	0.82	1	0.00	45.0	34.64	0.00	39.88 0.95
24	168.16	0.31	17.8	0.78	0.82	1	0.00	45.0	33.88	0.00	39.01 0.95
25	168.94	0.30	17.5	0.79	0.82	1	0.00	45.0	32.93	0.00	37.91 0.95
26	169.73	0.29	17.5	0.79	0.82	1	0.00	45.0	31.75	0.00	36.54 0.95
27	170.52	0.28	17.2	0.79	0.82	1	0.00	45.0	30.40	0.00	35.00 0.95
28	171.30	0.26	17.2	0.79	0.82	1	0.00	45.0	28.80	0.00	33.16 0.95
29	172.09	0.25	16.9	0.79	0.82	1	0.00	45.0	27.02	0.00	31.12 0.95
30	172.88	0.23	16.9	0.79	0.82	1	0.00	45.0	25.03	0.00	28.83 0.95
31	173.67	0.21	16.6	0.79	0.82	1	0.00	45.0	22.86	0.00	26.33 0.95
32	174.46	0.19	16.6	0.79	0.82	1	0.00	45.0	20.45	0.00	23.55 0.95
33	175.25	0.16	16.3	0.79	0.82	1	0.00	45.0	17.89	0.00	20.61 0.95
34	176.04	0.14	16.3	0.79	0.82	1	0.00	45.0	15.04	0.00	17.33 0.95
35	176.83	0.11	16.0	0.79	0.82	1	0.00	45.0	12.04	0.00	13.88 0.95
36	177.62	0.08	16.0	0.79	0.82	1	0.00	45.0	8.81	0.00	10.15 0.95
37	178.41	0.05	15.7	0.79	0.82	1	0.00	45.0	5.41	0.00	6.24 0.95
38	179.21	0.02	15.7	0.79	0.82	1	0.00	45.0	1.79	0.00	2.06 0.95

X-S Area: 8.23 Path Length: 31.32 X-S Weight: 904.85

DATA: Analysis 3 - Reclaimed Condition

Material Properties (4 materials)

Material: 1 (Mohr-Coulomb Isotropic) - Sand and gravel, mixed grain size
Cohesion Phi UnitWeight Ru
0.00 45.0 110.00 Auto
Material: 2 (Mohr-Coulomb Isotropic) - OB - loose sand, mixed grain size
Cohesion Phi UnitWeight Ru

0.00 34.0 99.00 Auto

Material: 3 (Mohr-Coulomb Isotropic) - Bedrock - claystone

Cohesion Phi UnitWeight Ru 20000.00 25.0 110.00 Auto

Material: 4 (Mohr-Coulomb Isotropic) - Slurry Wall

Cohesion Phi UnitWeight Ru Unsaturated: 0.00 0.0 112.00 Auto Saturated: 0.00 0.0 115.00 Auto

Water Properties

Unit weight of water: 62.400 Unit weight of water/medium above ground: 0.000

Material Profiles (1 profile)

Profile: 1 (2 points) Material beneath: 1 - Sand and gravel, mixed grain size

0.00 4265.00 300.00 4265.00

Slope Surface (4 points)

0.00 4265.00 100.00 4265.00 205.00 4230.00 300.00 4230.00

Phreatic Surface (2 points)

0.00 4225.00 300.00 4225.00

Piezometric Surfaces (1 surface)

Failure Surface (Critical, from previous analysis)

Initial circular surface for critical search defined by: XL,XR,R

Intersects: XL: 150.30 YL: 4248.23 XR: 180.00 YR: 4238.33 Centre: XC: 263.05 YC: 4537.00 Radius: R: 310.00

Earthquake Force

Pseudo-static earthquake (seismic) coefficient: 0.050

Variable Restraints

Parameter descriptor: XL XR R Range of variation: 50.00 25.00 10.00 Trial positions within range: 10 10 10

RESULTS: Analysis 3 - Reclaimed Condition

Bishop Simplified Method of Analysis - Circular Failure Surface

Critical Failure Surface Search using Multiple Circle Generation Techniques

Factor of Safety for initial failure surface approximation: 2.568

There were: 881 successful analyses from a total of 1001 trial surfaces 120 analyses terminated due to unacceptable geometry

Critical (minimum) Factor of Safety: 2.57

Results Summary - Lowest 99 Factor of Safety circles

Circle	e X-Left	Y-Left	X-Right	Y-Right	X-Centre	Y-Centre	Radius	FoS	
1	164.19	4243.60	173.06	4240.65	265.41	4532.49	306.11	2.565	< Critical Surface
2	175.30	4239.90	184.17	4236.94	278.98	4536.17	313.89	2.565	
3	164.19	4243.60	173.06	4240.65			313.89	2.565	
4	164.19	4243.60	173.06	4240.65	266.82	4536.71	310.56	2.565	
5	164.19	4243.60	173.06	4240.65	266.11	4534.60	308.33	2.565	
6	158.63	4245.46	167.50	4242.50	262.32	4541.73	313.89	2.565	
7	164.19	4243.60	173.06	4240.65	266.47	4535.66		2.565	
8	175.30	4239.90	184.17	4236.94	278.28	4534.06	311.67	2.565	
9	164.19	4243.60	173.06	4240.65			311.67	2.565	
10	175.30	4239.90						2.565	
11	164.19	4243.60						2.565	
12	169.74	4241.75						2.565	
13	175.30	4239.90							
14	164.19	4243.60						2.565	
15	164.19	4243.60	173.06	4240.6	5 265.06	4531.44		2.565	
16	164.19	4243.60		4240.6	5 268.22	4540.93	315.00	2.565	
17	175.30	4239.90						2.565	
18	169.74	4241.75							
19	158.63	4245.46		4242.5					
20	175.30	4239.90		4236.9		4533.01			
21	169.74	4241.75							
22	158.63	4245.46		4242.5		4540.67			
23	175.30	4239.90		4236.9		4531.95			
24	169.74	4241.75		4237.8		4538.59			
25	175.30	4239.90		4236.9		4537.22			
26	175.30	4239.90				4527.74			
27	169.74	4241.75							
28	169.74	4241.75			7 274.80				
29	175.30	4239.90							
30	158.63	4245.46							
31	169.74	4241.75				4533.81			
32	169.74	4241.75						2.565	
33	158.63	4245.46					307.22		
34	169.74	4241.75						2.565	
35	164.19	4243.60					315.00	2.565	
36	158.63	4245.46					306.11	2.565	
37	169.74	4241.75					311.67	2.565	
38	169.74	4241.75					312.78	2.566	
39	169.74	4241.75					307.22	2.566	
40	158.63	4245.46					310.56	2.566	
41	158.63	4245.46					309.44	2.566	
42	158.63	4245.46					308.33	2.566	
43	169.74	4241.75	178.61	4238.8	273.78	4539.08	315.00	2.566	

44	164.19	4243.60	175.83	4239.72	269.25	4539.39	313.89	2.566
45	164.19	4243.60	175.83	4239.72	268.90	4538.33	312.78	2.566
46	158.63	4245.46	167.50	4242.50	262.67	4542.78	315.00	2.566
47	164.19	4243.60	175.83	4239.72	266.44	4530.95	305.00	2.566
48	164.19	4243.60	175.83	4239.72	267.14	4533.06	307.22	2.566
49	164.19	4243.60	175.83	4239.72	268.55	4537.28	311.67	2.566
50	158.63	4245.46	170.28	4241.57	264.05	4542.29	315.00	2.566
51	169.74	4241.75	181.39	4237.87	274.10	4535.43	311.67	2.566
52	169.74	4241.75	178.61	4238.80	273.08	4536.97	312.78	2.566
53	158.63	4245.46	170.28	4241.57	262.99	4539.13	311.67	2.566
54	164.19	4243.60	175.83	4239.72	268.20	4536.23	310.56	2.566
55	158.63	4245.46	170.28	4241.57	263.69	4541.24	313.89	2.566
56	169.74	4241.75	181.39	4237.87	273.05	4532.27	308.33	2.566
57	169.74	4241.75	181.39	4237.87	273.40	4533.32	309.44	2.566
58	158.63	4245.46	170.28	4241.57	261.23	4533.86	306.11	2.566
59	158.63	4245.46	170.28	4241.57	261.59	4534.91	307.22	2.566
60	164.19	4243.60	175.83	4239.72	266.79	4532.01	306.11	2.566
61	169.74	4241.75	181.39	4237.87	273.75	4534.37	310.56	2.566
62	164.19	4243.60	175.83	4239.72	267.84	4535.17	309.44	2.566
63	158.63	4245.46	170.28	4241.57	263.34	4540.19	312.78	2.566
64	164.19	4243.60	175.83	4239.72	267.49	4534.12	308.33	2.566
65	158.63	4245.46	170.28	4241.57	262.29	4537.02	309.44	2.566
66	175.30	4239.90	186.94	4236.02	280.01	4534.63	312.78	2.566
67	169.74	4241.75	181.39	4237.87	271.99	4529.10	305.00	2.566
68	158.63	4245.46	170.28	4241.57	260.88	4532.81	305.00	2.566
69	169.74	4241.75	181.39	4237.87	272.34	4530.16	306.11	2.566
70	158.63	4245.46	170.28	4241.57	261.94	4535.97	308.33	2.566
71	158.63	4245.46	170.28	4241.57	262.64	4538.08	310.56	2.566
72	164.19	4243.60	178.61	4238.80	270.98	4539.95	315.00	2.566
73	175.30	4239.90	186.94	4236.02	277.55	4527.25	305.00	2.566
74	164.19	4243.60	178.61	4238.80	269.92	4536.79	311.67	2.566
75	175.30	4239.90	186.94	4236.02	280.71	4536.74	315.00	2.566
76	175.30	4239.90	186.94	4236.02	280.36	4535.68	313.89	2.566
77	175.30	4239.90	186.94	4236.02	278.95	4531.47	309.44	2.566
78	164.19	4243.60	178.61	4238.80	270.63	4538.90	313.89	2.566
79	175.30	4239.90	186.94	4236.02	279.31	4532.52	310.56	2.566
80	153.08	4247.31	167.50	4242.50	259.88	4543.65	315.00	2.566
81	175.30	4239.90	189.72	4235.09	281.03	4533.08	311.67	2.566
82	175.30	4239.90	186.94	4236.02	279.66	4533.58	311.67	2.566
83	175.30	4239.90	186.94	4236.02	278.25	4529.36	307.22	2.566
84	175.30	4239.90	186.94	4236.02	278.60	4530.41	308.33	2.566
85	175.30	4239.90	189.72	4235.09	279.98	4529.92	308.33	2.566
86	175.30	4239.90	189.72	4235.09	281.74	4535.19	313.89	2.566
87	164.19	4243.60	178.61	4238.80	270.27	4537.84	312.78	2.566
88	175.30	4239.90	189.72	4235.09	278.93	4526.76	305.00	2.566
89	153.08	4247.31	167.50	4242.50	258.12	4538.38	309.44	2.566
90	175.30	4239.90	186.94	4236.02	277.90	4528.30	306.11	2.566
91	153.08	4247.31	167.50	4242.50	257.42	4536.27	307.22	2.566
92	175.30	4239.90	189.72	4235.09	279.63	4528.87	307.22	2.566
93	158.63	4245.46	173.06	4240.65	263.67	4536.53	309.44	2.566
94	153.08	4247.31	167.50	4242.50	258.47	4539.43	310.56	2.566
95	164.19	4243.60	178.61	4238.80	268.17	4531.51	306.11	2.566
96	153.08	4247.31	167.50	4242.50	259.52	4542.60	313.89	2.566

97	153.08	4247.31	167.50	4242.50	257.77	4537.32	308.33	2.566
98	175.30	4239.90	189.72	4235.09	281.39	4534.14	312.78	2.566
99	169.74	4241.75	184.17	4236.94	274.78	4532.82	309.44	2.566

Critical Failure Surface (circle 1)

34

35

171.88

172.12

0.00

0.00 17.8

17.8

0.23

0.23

0.25

0.25

1

1

0.00 45.0

0.00 45.0

0.40

0.33

0.00

0.00

1.53 0.93

1.24 0.93

Intersects: XL: 164.19 YL: 4243.60 XR: 173.06 YR: 4240.65

Centre: XC: 265.41 YC: 4532.49 Radius: R: 306.11

Generated failure surface: (20 points)

164.19 4243.60 164.65 4243.44 165.12 4243.28 165.58 4243.1

164.19	4243.60	164.65	4243.44	165.12	4243.28	165.58	4243.12	166.05	4242.96
166.51	4242.80	166.98	4242.64	167.45	4242.48	167.91	4242.33	168.38	4242.17
168.84	4242.01	169.31	4241.86	169.78	4241.71	170.25	4241.55	170.71	4241.40
171.18	4241.25	171.65	4241.10	172.12	4240.95	172.59	4240.80	173.06	4240.65

Slice Geometry and Properties - Critical Failure Surface (circle 1, 38 slices)

Slice X-S ----- Base -----PoreWater Normal Test X-Left Area Angle Width Length Matl Cohesion Phi Weight Force Stress Factor 164.19 0.25 0.00 45.0 0.00 1 0.00 19.3 0.23 1 0.05 0.19 0.93 2 45.0 0.00 0.93 164.42 0.00 19.2 0.23 0.25 1 0.00 0.16 0.61 164.65 0.00 19.1 0.23 0.25 0.00 45.0 0.25 0.00 0.95 0.93 1

3 4 164.89 0.00 19.2 0.23 0.25 0.00 45.0 0.32 0.00 1.23 0.93 1 5 165.12 0.00 19.0 0.23 0.25 0.00 45.0 0.00 1.56 0.93 1 0.41 6 165.35 0.00 19.1 0.23 0.25 1 0.00 45.0 0.49 0.00 1.85 0.93 7 0.00 19.0 0.23 0.25 0.00 45.0 0.00 165.58 1 0.55 2.08 0.93 8 0.23 0.00 45.0 165.82 0.01 19.0 0.25 1 0.62 0.00 2.37 0.93 9 166.05 18.9 0.23 0.25 45.0 0.01 1 0.00 0.67 0.00 2.56 0.93 10 0.01 18.9 0.23 0.25 1 0.00 45.0 0.74 0.00 2.80 0.93 166.28 11 166.51 0.01 18.8 0.23 0.25 0.00 45.0 0.78 0.00 2.94 0.93 12 166.75 0.01 18.9 0.23 0.25 0.00 45.0 0.83 0.00 3.13 0.93 1 13 166.98 0.01 18.8 0.23 0.25 1 0.00 45.0 0.86 0.00 3.27 0.93 14 167.21 0.01 18.6 0.23 0.25 0.00 45.0 0.89 0.00 3.37 0.93 15 167.45 0.01 18.6 0.23 0.25 0.00 45.0 0.91 0.00 3.47 0.93 1 16 167.68 0.01 18.5 0.23 0.25 1 0.00 45.0 0.94 0.00 3.56 0.93 17 167.91 0.01 18.5 0.23 0.25 1 0.00 45.0 0.95 0.00 3.61 0.93 18 0.01 18.6 0.23 0.25 0.00 45.0 0.96 3.66 0.93 168.14 1 0.00 19 168.38 0.01 18.4 0.23 0.25 1 0.00 45.0 0.97 0.00 3.66 0.93 20 168.61 0.01 18.4 0.23 0.25 0.00 45.0 0.98 0.00 3.71 0.93 1 21 168.84 0.01 18.4 0.23 0.25 0.00 45.0 0.97 0.00 3.66 0.93 1 22 169.08 0.01 18.3 0.23 0.25 1 0.00 45.0 0.95 0.00 3.62 0.93 23 169.31 0.01 18.3 0.23 0.25 1 0.00 45.0 0.94 0.00 3.57 0.93 24 18.3 0.23 0.00 45.0 0.92 3.47 0.93 169.54 0.01 0.25 1 0.00 25 169.78 18.2 0.23 0.25 45.0 0.89 3.38 0.93 0.01 1 0.00 0.00 26 170.01 0.01 18.2 0.23 0.25 1 0.00 45.0 0.87 0.00 3.29 0.93 27 170.25 0.01 18.0 0.23 0.25 0.00 45.0 0.83 3.15 0.93 1 0.00 28 0.23 170.48 0.01 18.0 0.25 1 0.00 45.0 0.78 0.00 2.95 0.93 29 170.71 0.01 18.0 0.23 0.25 1 0.00 45.0 0.73 0.00 2.76 0.93 30 170.95 0.01 17.9 0.23 0.25 0.00 45.0 0.68 0.00 2.58 0.93 31 171.18 0.01 17.9 0.23 0.25 1 0.00 45.0 0.62 0.00 2.34 0.93 32 171.42 17.8 0.23 0.25 0.00 45.0 0.55 2.10 0.93 0.01 1 0.00 33 171.65 0.00 17.8 0.23 0.25 0.00 45.0 0.48 1 0.00 1.81 0.93
 36
 172.35
 0.00
 17.7
 0.23
 0.25
 1
 0.00
 45.0
 0.24
 0.00
 0.91
 0.93

 37
 172.59
 0.00
 17.6
 0.23
 0.25
 1
 0.00
 45.0
 0.15
 0.00
 0.57
 0.93

 38
 172.82
 0.00
 17.6
 0.23
 0.25
 1
 0.00
 45.0
 0.05
 0.00
 0.19
 0.93

X-S Area: 0.22 Path Length: 9.35 X-S Weight: 24.70











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September 16, 2025

Division of Reclamation, Mining and Safety 1313 Sherman Street, Room 215 Denver, CO. 80203 Attn: Ursula Armstrong

Re: Incompleteness Response to Transfer of Permit and

Succession of Operators for Caldwell-Nesslehuff Pit, Permit No. M-1997-071

Ms. Armstrong,

In response to your letter dated July 10, 2025, regarding our application to transfer Mineral Permit M-1979-103 from All Rite Paving & Redi-Mix, Inc. to Oldcastle SW Group, Inc. dba United Companies. We appreciate your review and are working diligently to provide the remaining documentation. Please find below a summary for the requested items:

- 1. **Application Form**: We have updated the Administrative Information section accordingly to reflect the officially registered address for Oldcastle SW Group, Inc. This revised page has been included with this communication for your review. It should be noted the mailing address for this business entity is different and contact information will be updated following approvals through e-permitting
- 2. Affidavit of Authority: An Affidavit signed by Brandon Pack, President of Oldcastle SW Group, Inc. dba United Companies, has been prepared and notarized for inclusion in the updated submission package. Additionally, as discussed, we have included documentation of Elected Officers who are authorized to execute agreements, contracts, documents, certificates, and other instruments for the purpose of conducting the Corporation's business. Originals copies have been mailed to Sara Stevenson-Benn and copies of mailings and documents are included with this package.
- 3. **Legal Right of Entry:** We appreciate that the previously submitted lease agreement was between the landowners and Fremont Paving & Redi-Mix, Inc. We have included a letter and supporting documents from K. Scott Voelker, Deputy General Counsel, CRH Americas Inc, as transactions counsel to Oldcastle SW Group, Inc. This document is meant to serve as a legal explanation clarifying the merger between Oldcastle SW Group, Inc. and Fremont Paving and Redi-Mix, Inc., and (certain affiliated business entities). As a result of the merger, all assets, rights, properties, leases and contractual interest of the Acquired Entities (Fremont Paving and Redi-Mix, Inc.) including permits, leases, and real property interests, became the assets and obligations of Oldcastle SW Group, Inc. by operation of law. Therefore, Oldcastle SW Group, Inc. retains the full right to operate under the existing lease agreements and no lease renewal is required to establish or maintain operational authority.











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- 4. **Performance Warranty (PW):** We recognize the omission of the notary stamp on page 13. A revised Performance Warranty has been prepared and signed by Tony Majka and notarized appropriately for resubmission.
- 5. **Structure Agreements**: All identified structure owners within 200 feet of the permit boundary have been contacted by letter delivered via United States Postal Service Certified Mail, in accordance with Rule 6.4.19. Copies of the mailings were provided with the original submittal. For those structure owners that could not be reached, an engineering analysis was performed for each structure. This satisfies Rule 6.4.149(b). As discussed with the Division representatives, a table is provided with the site, structures, structure owners and distances are to be included for each site. These distances are consistent with site specific engineer evaluation provided and demonstrate that operations shall not impact the listed structures

All original financial statements have been mailed to Sara Stevenson-Benn (Certified Mail No: 9589 0710 5270 1124 7354 93 & Performance Warranty under CM No: 9589 0710 5270 0852 7499 049) and copies will be provided in the submission packet. If any adjustments are necessary or additional clarification is required, please do not hesitate to contact us. Thank you for your guidance and support throughout this transition process.

Thank you,

Sara Weimer

EHS / Environmental Specialist

Oldcastle SW Group, Inc.

