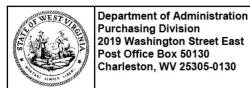


2019 Washington Street, East Charleston, WV 25305 Telephone: 304-558-2306 General Fax: 304-558-6026

Bid Fax: 304-558-3970

The following documentation is an electronically-submitted vendor response to an advertised solicitation from the *West Virginia Purchasing Bulletin* within the Vendor Self-Service portal at *wvOASIS.gov*. As part of the State of West Virginia's procurement process, and to maintain the transparency of the bid-opening process, this documentation submitted online is publicly posted by the West Virginia Purchasing Division at *WVPurchasing.gov* with any other vendor responses to this solicitation submitted to the Purchasing Division in hard copy format.





State of West Virginia Solicitation Response

Proc Folder: 1087735

Solicitation Description: Roadway Salt - Sodium Chloride 6623C006

Proc Type: Central Master Agreement

 Solicitation Closes
 Solicitation Response
 Version

 2022-09-14 13:30
 SR 0803 ESR09132200000001341
 1

VENDOR

000000191163

COMPASS MINERALS AMERICA INC

Solicitation Number: CRFQ 0803 DOT2300000020

Total Bid: 0 Response Date: 2022-09-13 Response Time: 19:24:36

Comments: Net 30 Terms no Discount offered.

FOR INFORMATION CONTACT THE BUYER

John W Estep 304-558-2566 john.w.estep@wv.gov

Vendor Signature X FEIN# DATE

All offers subject to all terms and conditions contained in this solicitation

Date Printed: Sep 15, 2022 Page: 1 FORM ID: WV-PRC-SR-001 2020/05

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	Roadway Salt - Sodium Chloride	0.00000	TON	0.010000	0.00

Comm Code	Manufacturer	Specification	Model #	
46161506				

Commodity Line Comments: Pricing is listed on Attachment A and Attachment B.

Extended Description:

Roadway Salt - Sodium Chloride for use in snow removal and ice control throughout the state of West Virginia.

VENDOR NOTE: Bid evaluation will be based on the bid prices submitted on the Pricing Pages Attachment A (ATT A) and Attachment B(ATT B). Vendor's entries of bid prices or other notations made in the wvOASIS commodity lines/descriptions will not be considered for bid evaluation or award.

WV Oasis

Transaction Number: 20220906123358

Status: CompletedOk

Amount: \$125.00

Company Name: Compass Minerals America Inc.

Name: Brenda Blunt

Address: 9900 W 109th Street

Overland Park KS 66210

Phone: 800-323-1641

e-Mail: bluntb@compassminerals.com

Card Holder: Brenda Lee Blunt

Card Type: Master Card

Card:

П	New	V	Update
	INCW	101	Opuall

STATE OF WEST VIRGINIA - PURCHASING DIVISION

VENDOR REGISTRATION AND DISCLOSURE STATEMENT AND SMALL, WOMEN-, AND MINORITY-OWNED BUSINESS CERTIFICATION APPLICATION

Before a vendor is eligible to sell goods and/or services to the State of West Virginia, the **West Virginia Code** §5A-3-12 requires all vendors to have on file with the West Virginia Purchasing Division a completed Vendor Registration and Disclosure Statement. All vendors wishing to participate in the competitive bid process and receive purchase orders from the State of West Virginia exceeding \$2,500 in aggregate across all state agencies are required to complete the Vendor Registration and Disclosure Statement (WV-1 form) and pay a \$125.00 annual fee. Payment of the annual fee includes email notifications on bid opportunities based on the commodities and services selected upon registering in the Vendor Self-Service (VSS) portal at **wvOASIS.gov**. Please complete this form in its **ENTIRETY** and return it with a check or money order made payable to the **STATE OF WEST VIRGINIA** in the amount of \$125.00. Incomplete forms may not be processed and may be returned to the vendor. Please send completed form and payment to:

Purchasing Division - Vendor Registration 2019 Washington Street East Charleston, WV 25305-0130

Whenever a change occurs in the information submitted, such change shall be reported immediately in the same manner as required in the original disclosure statement (*West Virginia Code* §5A-3-12). Vendors doing business with the State of West Virginia are expected to abide by the **Vendor Code of Conduct** available online at *www.state.wv.us/admin/purchase/vrc/vendorconduct.pdf*.

Privacy Notice: The Purchasing Division is required to collect certain information as stated in **West Virginia Code** §5A-3-12, other applicable sections of the **West Virginia Code**, the Vendor Registration and Disclosure Statement forms, and other documents to facilitate the state bidding and contract administration processes. This information is stored in a secure environment, but unless specifically protected under state law, any information provided may be inspected by or disclosed to the public.

Vendors are also required to be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or other state agencies or political subdivisions. Failure to do so may result in delay of or disqualification from a contract award pursuant to *West Virginia Code of State Rules* §148-1-6.1.7.

Should you need additional information relating to vendor registration, please visit **www.state.wv.us/admin/purchase/VendorReg.html**. Questions concerning this Vendor Registration and Disclosure Statement may be directed to the Purchasing Division at (304) 558-2311.

VENDOR REGISTRATION AND DISCLOSURE STATEMENT AND SMALL, WOMEN-, AND MINORITY-OWNED BUSINESS CERTIFICATION APPLICATION

PLEASE TYPE OR CLEARLY PRINT ALL INFORMATION

To Be Completed by the Vendor and Returned to the Purchasing Division

1.	Legal Name of Company/Individual Compass Mine	erals Am	erica Inc.	
Ordering Address 9900 W. 109th Street, Overland Park, KS 66210				
(Please provide a physical address, not a post office box.)				
	Payment Address PO Box 277043			
	City, State, Zip Atlanta, GA 30384-7043			
	Telephone Number 800-323-1641		Fax Number <u>913-338-7945</u>	
	Principle Contact Person Harrison Green		E-mail highwaygroup@compassminerals.com	
	Contact's Telephone Number 800-323-1641		Contact's Fax Number 913-338-7945	
	DBA, if any			
	Ordering Address			
	Payment Address			
	City, State, Zip			
	Telephone Number		Fax Number	
	Principle Contact Person		E-mail	
	Contact's Telephone Number		Contact's Fax Number	
2.	Vendor Tax Classification:			
\neg	Individual	П	Government	
	Sole Proprietor		Medical Corporation	
	Partnership		Attorney Corporation	
<u>/</u>	Corporation		Non-Profit Organization	
닠	Board Member	\vdash	Payroll	
닉	Trust	Ш	Employee	
	Estate			

VENDOR REGISTRATION AND DISCLOSURE STATEMENT AND SMALL, WOMEN-, AND MINORITY-OWNED BUSINESS CERTIFICATION APPLICATION

PLEASE TYPE OR CLEARLY PRINT ALL INFORMATION

To Be Completed by the Vendor and Returned to the Purchasing Division

-	payer Identification Number (TIN): If you have an Identification Number, enter it below. All partnerships, ations, or companies with employees must have an EIN. 1 0 4 7 6 3 2 EIN
•	do not have a EIN, please enter Social Security number (SSN), Individual Taxpayer Identification Number (ITIN) or ve Identification Number (ATIN) and check the correct below. - (SSN, ITIN, ATIN)
4. (A)	Small, Women-Owned, Minority-Owned Businesses
minorit State F compe Virginion soliciting the app	Virginia Code §5A-3-59 establishes a procurement certification program in West Virginia for small, women-, and ty-owned businesses. Requirements related to the certification program are provided in the West Virginia Code of Rules §148-2-1 et seq. Note that this certification provides nonresident vendors preference that is equivalent to ting resident (West Virginia) vendors that have applied for resident vendor preference, in accordance with West (a Code §5A-3-37). This certification may assist resident small, women-, and minority-owned businesses when high business in other states. If you are renewing your two-year SWAM business certification status, please indicate propriate designation below.
	Minority-owned Business [1] means a business concern that is at least fifty-one percent owned by one or more minority individuals or in the case of a corporation, partnership, or limited liability company or other entity, at least fifty-one percent of the equity ownership interest in the corporation, partnership, or limited liability company or other entity is owned by one or more minority individuals and both the management and daily business operations are controlled by one or more minority individuals.
	• A "minority individual" means an individual who is a citizen of the United States or a noncitizen who is in full compliance with United States immigration law and who satisfies one or more of the following definitions:
	 African American means a person having origins in any of the original peoples of Africa and who is regarded as such by the community of which this person claims to be a part.

which this person claims to be a part.
 Hispanic American means a person having origins in any of the Spanish-speaking peoples of Mexico, South or Central America, or the Caribbean Islands or other Spanish or Portuguese cultures and who is regarded as such by the community of which this person claims to be a part.

Asian American means a person having origins in any of the original peoples of the Far East, Southeast Asia, the Indian subcontinent or the Pacific Islands, including, but not limited to, Japan, China, Vietnam, Samoa, Laos, Cambodia, Taiwan, Northern Mariana, the Philippines, a U.S. territory of the Pacific, India, Pakistan, Bangladesh, or Sri Lanka and who is regarded as such by the community of

Native American means a person having origins in any of the original peoples of North America and
who is regarded as such by the community of which this person claims to be a part or who is
recognized by a tribal organization.

VENDOR REGISTRATION AND DISCLOSURE STATEMENT AND SMALL, WOMEN-, AND MINORITY-OWNED BUSINESS CERTIFICATION APPLICATION

PLEASE TYPE OR CLEARLY PRINT ALL INFORMATION

To Be Completed by the Vendor and Returned to the Purchasing Division

	Small Business [2] means a business, independently owned or operated by one or more persons who are citizens of the United States or noncitizens who are in full compliance with United States immigration law, which, together with affiliates, has two hundred fifty or fewer employees, or average annual gross receipts of \$10 million or less averaged over the previous three years.
	Women-owned Business [3] means a business concern that is at least fifty-one percent owned by one or more women who are citizens of the United States or noncitizens who are in full compliance with United States immigration law, or in the case of a corporation, partnership or limited liability company or other entity, at least fifty-one percent of the equity ownership interest is owned by one or more women who are citizens of the United States or noncitizens who are in full compliance with United States immigration law, and both the management and daily business operations are controlled by one or more women who are citizens of the United States or noncitizens who are in full compliance with United States immigration law.
(B) Oth	ner Federal Designations
<i>Code o</i> j proced	inally, by providing the following information, I represent that this enterprise is a small business as defined by the <i>f Federal Regulations</i> , Title 13, Part 121, as appended - which contains detailed industry definitions and related ures - and/or the characteristics of the enterprise's control, operation and/or ownership are accurately reflected information provided. <i>Check all that apply</i> .
	Disabled Small Business Ownership [4]
	Veteran Small Business Ownership [5]
provide	nmodity Codes: You may register for commodity codes for the products and services that you offer, which will e you with bid opportunity alerts and notifications should you become a paid registered vendor. To perform this n, visit the Vendor Self-Service (VSS) Portal at wvOASIS.gov .
6. Wh	nat is the latest Dun & Bradstreet number and rating on the vendor? 11-894-0279
	ne vendor acting as an agent for some other individual, firm or corporation? If yes, attach statement of the all authorizing such representation. Ves
	ing below and submitting this form, the vendor certifies and acknowledges that: 1) it has obtained all licenses,

certifications, and authorizations necessary to lawfully conduct business in the state of West Virginia; and 2) that the assertions made by completing this form and delivering it to the Purchasing Division are accurate and true in accordance with the applicable law and rules. As authorized agent of the vendor named herein, I do solemnly swear that the above information is true and complete, in accordance with **West Virginia Code** §5A-3-12(e).

In the event that the vendor is applying for certification as a small, women-, or minority-owned business, the vendor's signature below further certifies that: 1) the state in which the vendor has its headquarters or principal place of business does not deny a like certification to a West Virginia based small, women-owned, or minority-owned business; 2) the state in which the vendor has its headquarters or principal place of business does not provide a preference to small, women-owned, or minority-owned firms that is unavailable to West Virginia based businesses; and, 3) that it has read and understands this form, along with the law and rules governing certification as a small, women-owned, or minority-owned business.

Harrison Green	
Han J	thorized Agent of Vendor (Print Name)
	Authorized Agent (Signature)
Manager Highwa	ay Sales
	Title
September 6, 20	22
	Date

PURCHASING DIVISION USE ONLY	
Vendor ID:	_
Check No.:	_
Memo No. :	_
Date:	_
Entered by:	

Brenda Blunt

From: Vendor Registration, Purchasing <purchasing.vendorregistration@wv.gov>
Sent: Thursday, September 08, 2022 2:18 PM
To: Brenda Blunt
Subject: [External] Re: State of West Virginia Vendor Registration Form From Compass Minerals America Inc.

Received, thank you.

On Thu, Sep 8, 2022 at 2:21 PM Brenda Blunt < BluntB@compassminerals.com> wrote:

Good afternoon,

Please see the attached Vendor Registration for Compass Minerals America Inc. I paid for us online on the 6th and have attached the receipt as well.

Let me know if anything further is required.

Thank you,



Brenda

Brenda Blunt

Customer Experience Supervisor

P: 800-323-1641

E: bluntb@compassminerals.com

W: compassminerals.com

B4WV

Transaction Number: 20220627891354

Status: CompletedOk

Amount: \$25.00

Company Name: Compass Minerals Intl

Name: Ashlyn Posladek

Address: 9900 West 109th Street

Suite 600

OVERLAND PARK KS 66210

Phone: 9133449348

e-Mail: POSLADEKA@COMPASSMINERALS.COM

Card Holder: Ashlyn Posladek

Card Type: Master Card

Card:



Business for West Virginia www.business4wv.com

Fees for Registration of COMPASS MINERALS AMERICA INC. - 2022 Corporations Annual Report

Unified Business ID: UF000060880001

Filing Date: 06/27/2022 15:27:30

Secretary of State Annual Report Fee

\$25.00

Business Registration Total Fees

\$25.00



hide ∧

hide ☆

(./) (http://business4.wv.gov/resources/Pages/default.aspx) (default.aspx?pagename=helpinfo)

default.aspx?pagename=publicmemberlogout)



WV One Stop **Business Portal**

View / Hide Menu

Signature Page(s)

Print Receipt

Filing Summary: COMPASS MINERALS AMERICA INC. - Corporations Annual Report

Business Information Business Legal Name

COMPASS MINERALS AMERICA INC.

WV Effective Date 11/12/2002 Charter Type Foreign Class For Profit Organization Type Corporation

Home State DE

Filing Information

2123 **Business Purpose**

Nonmetallic Mineral Mining & Quarrying (stone, limestone, granite, **Business Purpose Description**

sand, gravel, clay, ceramic, etc.)

Business Purpose County Out of State

9900 WEST 109TH STREET, SUITE 100 **Principal Office**

OVERLAND PARK, KS 66210

9900 WEST 109TH STREET

Mailing Address SUITE 100

OVERLAND PARK, KS 66210

https://www.onestop.wv.gov/B4WVPublic/default.aspx?pagename=submittedapps#

1/4

Filing Summary: COMPASS MINERALS AMERICA INC. - Corporations Annual Report

Filing Information

hide ∧

Local Office 5400 D BIG TYLER ROAD

CHARLESTON, WV 25313

GARY R. GOSE

Agent of Process 9900 WEST 109TH STREET, SUITE 100

OVERLAND PARK, KS 66210

KEVIN CRUTCHFIELD

President Information President 9900 WEST 109TH STREET, SUITE 600

OVERLAND PARK, KS 66210

GARY R. GOSE

Vice President Information Vice President 990 WEST 109TH STREET, SUITE 600

OVERLAND PARK, KS 66210

MARY L. FRONTCZAK

Secretary Information Secretary 9900 WEST 109TH STREET, SUITE 600

OVERLAND PARK, KS 66210

ZOE A. VANTZOS

Director Information 9900 WEST 109TH STREET, SUITE 600

OVERLAND PARK, KS 66210

LORIN CRENSHAW

Director Information 9900 W 109TH ST, STE 100

OVERLAND PARK, KS 66210

WV County Out of State

Company Email TAXDEPT@COMPASSMINERALS.COM

Number of West Virginia resident

employees

0

Filing Date 06/27/2022

Total Number of Employees 0

Company Website Address

Scrap Metal

hide ♠

Are you a scrap metal dealer or

recycler?

No

Export Information

Is your company currently

Exporting?

No

Market 1 Description:

Market 2 Description:

Market 3 Description:

hide ☆

Filing Summary: COMPASS MINERALS AMERICA INC. - Corporations Annual Report

Export Information hide ∧ Would you be interested in learning about resources to help you sell No your products and services overseas? Owned Business Information hide ∧ Is this a minority owned business? No Is this a woman owned business? Do you own or operate more than No one business in West Virginia? Number of businesses Number of counties Military Information hide ∧ Does your organization employ individual(s) who currently serve or someone who has served as a No member of the United States Armed Forces? How many Does the owner of the organization currently serve or has served as a member of the United States Armed Forces? Survey Information hide ∧ Would you like to be contacted by No a WVSBDC business coach?



WV Secretary of State (http://www.sos.wv.gov) | Workforce WV (http://workforcewv.org/) | WV State Tax Department (http://tax.wv.gov) | WV Division of Labor (http://labor.wv.gov)

UPDATED AS OF February 2022





SUBSIDIARY DIRECTORS AND OFFICERS

U.S. ENTITIES

CLYMAN BAY RESOURCES, INC., a Delaware corporation

(Sole stockholder is Compass Minerals Ogden Inc.)

<u>Directors</u>: Lorin Crenshaw and Zoe A. Vantzos

Officers: Kevin S. Crutchfield President and CEO

Lorin Crenshaw Chief Financial Officer and Treasurer

James D. Standen Chief Commercial Officer

Mary L. Frontczak Chief Legal and Administrative Officer and Corporate Secretary

Gary R. Gose Vice President, Tax and Assistant Secretary

Zoe A. Vantzos Assistant Secretary

CMP CAPITAL, INC., a Delaware corporation

(Sole stockholder is NAMSCO Inc.)

Directors: Lorin Crenshaw and Zoe A. Vantzos

Officers: Kevin S. Crutchfield President and CEO

Lorin Crenshaw Chief Financial Officer and Treasurer

James D. Standen Chief Commercial Officer

Mary L. Frontczak Chief Legal and Administrative Officer and Corporate Secretary

Gary R. Gose Vice President, Tax and Assistant Secretary

Zoe A. Vantzos Assistant Secretary

COMPASS MINERALS AMERICA INC., a Delaware corporation

(Sole stockholder is NAMSCO Inc.)

<u>Directors</u>: Lorin Crenshaw and Zoe A. Vantzos

Officers: Kevin S. Crutchfield President and CEO

Lorin Crenshaw Chief Financial Officer
James D. Standen Chief Commercial Officer
George J. Schuller, Jr. Chief Operations Officer

Mary L. Frontczak Chief Legal and Administrative Officer and Corporate Secretary

Gary R. Gose Vice President, Tax and Assistant Secretary

Zoe A. Vantzos Assistant Secretary Kelley A. Schnieders Assistant Secretary

From: To: Subject: Date:

Ashlyn Posladek
FW: [External] Business Annual Report - Action Needed

Wednesday, May 4, 2022 5:19:48 PM

Mary Wells Compass Minerals Director of Tax (913) 344-9248

-----Original Message-----From: Chris Alder, Business and Licensing Division <BLAnnualReports@wvsos.com>

Sent: Wednesday, May 4, 2022 1:01 AM
To: CMP Tax Department <TaxDept@compassminerals.com> Subject: [External] Business Annual Report - Action Needed

http://sos.wv.gov/business/PublishingImages/FileOnlineBtn.png

West Virginia Secretary of State's Office

Your 2022 Annual Report Filing is Now Due as Required by WV Code

Please Take Action and File Online Now at: www.onestop.wv.gov https://urldefense.com/v3/ https://urldefense.com/v3/ https://urldefense.com/v3

Filing is Due by July 1 to Avoid Late Fees

Action Required for: COMPASS MINERALS AMERICA INC.

It is time again to file your annual report, annual notice, or attorney-in-fact filing. Annual filings for Corporations, Limited Liability Companies, Limited Partnerships, Business Trusts, and Voluntary Associations, are required yearly per WV Code.

To avoid late fees or risk license revocation, you must file your business Annual Report, Annual Notice, or Attorney-in-Fact by July 1st.

- 1. Get started online at https://onestop.wv.gov
- Chocks a language consequence of these options: white some of these options:

 2. When the Homepage comes up, select you preference for filing from one of these options:
- - Create a user account (this will allow you to track and maintain all your filings in a single, secure filing system online) File as a Guest with changes (no account needed)

 - iii. File as a Guest with no changes (no account needed)
- 3. Update your business information if needed, and enter payment via a secure payment center managed by the WV Treasury (electronic check or credit card)

 $TO \ GET \ STARTED, CLICK \ THE \ FOLLOWING \ LINK: \ \frac{https://onestop.wv.gov}{https://onestop.wv.gov} \\ $$ \sim \frac{https://onestop.wv.gov}{https://onestop.wv.gov} \\ $\sim \frac{https://onestop.wv.gov}{https://onestop.wv.gov} \\ \sim

Ashlyn Posladek

From: Chris Alder, Business and Licensing Division <BLAnnualReports@wvsos.com>

Sent: Tuesday, January 25, 2022 2:51 AM

To: CMP Tax Department

Subject: [External] Business Annual Report - Action Needed



West Virginia Secretary of State's Office

Your 2022 Annual Report Filing is Now Due as Required by WV Code

Please Take Action and File Online Now at: www.onestop.wv.gov

Filing is Due by July 1 to Avoid Late Fees

Action Required for: COMPASS MINERALS AMERICA INC.

It is time again to file your annual report, annual notice, or attorney-in-fact filing. Annual filings for Corporations, Limited Liability Companies, Limited Partnerships, Business Trusts, and Voluntary Associations, are required yearly per WV Code.

To avoid late fees or risk license revocation, you must file your business Annual Report, Annual Notice, or Attorney-in-Fact by July ^{1st}.

Filing these reports is as easy as 1, 2, 3!

- 1. Get started online at https://onestop.wv.gov.
- 2. When the Homepage comes up, select you preference for filing from one of these options:
 - i. Create a user account (this will allow you to track and maintain all your filings in a single, secure filing system online)
 - ii. File as a Guest with changes (no account needed)
 - iii. File as a Guest with no changes (no account needed)
- 3. Update your business information if needed, and enter payment via a secure payment center managed by the WV Treasury (electronic check or credit card)

TO GET STARTED, CLICK THE FOLLOWING LINK: https://onestop.wv.gov

INSTRUCTIONS TO VENDORS SUBMITTING BIDS

- 1. REVIEW DOCUMENTS THOROUGHLY: The attached documents contain a solicitation for bids. Please read these instructions and all documents attached in their entirety. These instructions provide critical information about requirements that if overlooked could lead to disqualification of a Vendor's bid. All bids must be submitted in accordance with the provisions contained in these instructions and the Solicitation. Failure to do so may result in disqualification of Vendor's bid.
- 2. MANDATORY TERMS: The Solicitation may contain mandatory provisions identified by the use of the words "must," "will," and "shall." Failure to comply with a mandatory term in the Solicitation will result in bid disqualification.

5. I REDID WEELING. The term identified below shall apply to this softenation.
A pre-bid meeting will not be held prior to bid opening
A MANDATORY PRE-BID meeting will be held at the following place and time:

3 PDFRID MEFTING: The item identified below shall apply to this Solicitation

All Vendors submitting a bid must attend the mandatory pre-bid meeting. Failure to attend the mandatory pre-bid meeting shall result in disqualification of the Vendor's bid. No one individual is permitted to represent more than one vendor at the pre-bid meeting. Any individual that does attempt to represent two or more vendors will be required to select one vendor to which the individual's attendance will be attributed. The vendors not selected will be deemed to have not attended the pre-bid meeting unless another individual attended on their behalf.

An attendance sheet provided at the pre-bid meeting shall serve as the official document verifying attendance. Any person attending the pre-bid meeting on behalf of a Vendor must list on the attendance sheet his or her name and the name of the Vendor he or she is representing.

Additionally, the person attending the pre-bid meeting should include the Vendor's E-Mail address, phone number, and Fax number on the attendance sheet. It is the Vendor's responsibility to locate the attendance sheet and provide the required information. Failure to complete the attendance sheet as required may result in disqualification of Vendor's bid.

All Vendors should arrive prior to the starting time for the pre-bid. Vendors who arrive after the starting time but prior to the end of the pre-bid will be permitted to sign in but are charged with knowing all matters discussed at the pre-bid.

Questions submitted at least five business days prior to a scheduled pre-bid will be discussed at the pre-bid meeting if possible. Any discussions or answers to questions at the pre-bid meeting are preliminary in nature and are non-binding. Official and binding answers to questions will be published in a written addendum to the Solicitation prior to bid opening.

4. VENDOR QUESTION DEADLINE: Vendors may submit questions relating to this Solicitation to the Purchasing Division. Questions must be submitted in writing. All questions must be submitted on or before the date listed below and to the address listed below to be considered. A written response will be published in a Solicitation addendum if a response is possible and appropriate. Non-written discussions, conversations, or questions and answers regarding this Solicitation are preliminary in nature and are nonbinding.

Submitted emails should have the solicitation number in the subject line.

Question Submission Deadline:

September 6, 2022 by 10:00am

Submit Questions to: John Estep 2019 Washington Street, East Charleston, WV 25305 Fax: (304) 558-3970

Email: iohn.w.estep@wv..gov

- 5. VERBAL COMMUNICATION: Any verbal communication between the Vendor and any State personnel is not binding, including verbal communication at the mandatory pre-bid conference. Only information issued in writing and added to the Solicitation by an official written addendum by the Purchasing Division is binding.
- 6. BID SUBMISSION: All bids must be submitted on or before the date and time of the bid opening listed in section 7 below. Vendors can submit bids electronically through wvOASIS, in paper form delivered to the Purchasing Division at the address listed below either in person or by courier, or in facsimile form by faxing to the Purchasing Division at the number listed below. Notwithstanding the foregoing, the Purchasing Division may prohibit the submission of bids electronically through wvOASIS at its sole discretion. Such a prohibition will be contained and communicated in the wvOASIS system resulting in the Vendor's inability to submit bids through wvOASIS. The Purchasing Division will not accept bids, modification of bids, or addendum acknowledgment forms via email. Bids submitted in paper or facsimile form must contain a signature. Bids submitted in wvOASIS are deemed to be electronically signed.

Any bid received by the Purchasing Division staff is considered to be in the possession of the Purchasing Division and will not be returned for any reason.

For Request for Proposal ("RFP") Responses Only: Submission of a response to a Request for Proposal is not permitted in wvOASIS. In the event that Vendor is responding to a request for proposal, the Vendor shall submit one original technical and one original cost proposal prior to the bid opening date and time identified in Section 7 below, plus ______ convenience copies of each to the Purchasing Division at the address shown below. Additionally, the Vendor should clearly identify and segregate the cost proposal from the technical proposal in a separately sealed envelope.

Bid Delivery Address and Fax Number:

Department of Administration, Purchasing Division 2019 Washington Street East Charleston, WV 25305-0130

Fax: 304-558-3970

A bid submitted in paper or facsimile form should contain the information listed below on the face of the submission envelope or fax cover sheet. Otherwise, the bid may be rejected by the Purchasing Division.

JOHN ESTEP

VENDOR NAME:

BUYER:

SOLICITATION NO.: CRFQ 0803 DOT2300000020 BID OPENING DATE: September 14, 2022

BID OPENING TIME: 1:30 PM FAX NUMBER: 304-558-3970

7. BID OPENING: Bids submitted in response to this Solicitation will be opened at the location identified below on the date and time listed below. Delivery of a bid after the bid opening date and time will result in bid disqualification. For purposes of this Solicitation, a bid is considered delivered when confirmation of delivery is provided by wvOASIS (in the case of electronic submission) or when the bid is time stamped by the official Purchasing Division time clock (in the case of hand delivery).

Bid Opening Date and Time: September 14, 2022 @ 1:30 PM

Bid Opening Location: Department of Administration, Purchasing Division 2019 Washington Street East Charleston, WV 25305-0130

- 8. ADDENDUM ACKNOWLEDGEMENT: Changes or revisions to this Solicitation will be made by an official written addendum issued by the Purchasing Division. Vendor should acknowledge receipt of all addenda issued with this Solicitation by completing an Addendum Acknowledgment Form, a copy of which is included herewith. Failure to acknowledge addenda may result in bid disqualification. The addendum acknowledgement should be submitted with the bid to expedite document processing.
- 9. BID FORMATTING: Vendor should type or electronically enter the information onto its bid to prevent errors in the evaluation. Failure to type or electronically enter the information may result in bid disqualification.

- 10. ALTERNATE MODEL OR BRAND: Unless the box below is checked, any model, brand, or specification listed in this Solicitation establishes the acceptable level of quality only and is not intended to reflect a preference for, or in any way favor, a particular brand or vendor. Vendors may bid alternates to a listed model or brand provided that the alternate is at least equal to the model or brand and complies with the required specifications. The equality of any alternate being bid shall be determined by the State at its sole discretion. Any Vendor bidding an alternate model or brand should clearly identify the alternate items in its bid and should include manufacturer's specifications, industry literature, and/or any other relevant documentation demonstrating the equality of the alternate items. Failure to provide information for alternate items may be grounds for rejection of a Vendor's bid.
- This Solicitation is based upon a standardized commodity established under W. Va. Code § 5A-3-61. Vendors are expected to bid the standardized commodity identified. Failure to bid the standardized commodity will result in your firm's bid being rejected.
- 11. EXCEPTIONS AND CLARIFICATIONS: The Solicitation contains the specifications that shall form the basis of a contractual agreement. Vendor shall clearly mark any exceptions, clarifications, or other proposed modifications in its bid. Exceptions to, clarifications of, or modifications of a requirement or term and condition of the Solicitation may result in bid disqualification.
- 12. COMMUNICATION LIMITATIONS: In accordance with West Virginia Code of State Rules §148-1-6.6, communication with the State of West Virginia or any of its employees regarding this Solicitation during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited without prior Purchasing Division approval. Purchasing Division approval for such communication is implied for all agency delegated and exempt purchases.
- 13. REGISTRATION: Prior to Contract award, the apparent successful Vendor must be properly registered with the West Virginia Purchasing Division and must have paid the \$125 fee, if applicable.
- 14. UNIT PRICE: Unit prices shall prevail in cases of a discrepancy in the Vendor's bid.
- 15. PREFERENCE: Vendor Preference may be requested in purchases of motor vehicles or construction and maintenance equipment and machinery used in highway and other infrastructure projects. Any request for preference must be submitted in writing with the bid, must specifically identify the preference requested with reference to the applicable subsection of West Virginia Code § 5A-3-37, and must include with the bid any information necessary to evaluate and confirm the applicability of the requested preference. A request form to help facilitate the request can be found at: www.state.wv.us/admin/purchase/vrc/Venpref.pdf.

- 15A. RECIPROCAL PREFERENCE: The State of West Virginia applies a reciprocal preference to all solicitations for commodities and printing in accordance with W. Va. Code § 5A-3-37(b). In effect, non-resident vendors receiving a preference in their home states, will see that same preference granted to West Virginia resident vendors bidding against them in West Virginia. Any request for reciprocal preference must include with the bid any information necessary to evaluate and confirm the applicability of the preference. A request form to help facilitate the request can be found at: www.state.wv.us/admin/purchase/vrc/Venpref.pdf.
- 16. SMALL, WOMEN-OWNED, OR MINORITY-OWNED BUSINESSES: For any solicitations publicly advertised for bid, in accordance with West Virginia Code §5A-3-37(a)(7) and W. Va. CSR § 148-22-9, any non-resident vendor certified as a small, women-owned, or minority-owned business under W. Va. CSR § 148-22-9 shall be provided the same preference made available to any resident vendor. Any non-resident small, women-owned, or minority-owned business must identify itself as such in writing, must submit that writing to the Purchasing Division with its bid, and must be properly certified under W. Va. CSR § 148-22-9 prior to contract award to receive the preferences made available to resident vendors. Preference for a non-resident small, women-owned, or minority owned business shall be applied in accordance with W. Va. CSR § 148-22-9.
- 17. WAIVER OF MINOR IRREGULARITIES: The Director reserves the right to waive minor irregularities in bids or specifications in accordance with West Virginia Code of State Rules § 148-1-4.6.
- 18. ELECTRONIC FILE ACCESS RESTRICTIONS: Vendor must ensure that its submission in wvOASIS can be accessed and viewed by the Purchasing Division staff immediately upon bid opening. The Purchasing Division will consider any file that cannot be immediately accessed and viewed at the time of the bid opening (such as, encrypted files, password protected files, or incompatible files) to be blank or incomplete as context requires and are therefore unacceptable. A vendor will not be permitted to unencrypt files, remove password protections, or resubmit documents after bid opening to make a file viewable if those documents are required with the bid. A Vendor may be required to provide document passwords or remove access restrictions to allow the Purchasing Division to print or electronically save documents provided that those documents are viewable by the Purchasing Division prior to obtaining the password or removing the access restriction.
- 19. NON-RESPONSIBLE: The Purchasing Division Director reserves the right to reject the bid of any vendor as Non-Responsible in accordance with W. Va. Code of State Rules § 148-1-5.3, when the Director determines that the vendor submitting the bid does not have the capability to fully perform or lacks the integrity and reliability to assure good-faith performance."
- 20. ACCEPTANCE/REJECTION: The State may accept or reject any bid in whole, or in part in accordance with W. Va. Code of State Rules § 148-1-4.5. and § 148-1-6.4.b."
- 21. YOUR SUBMISSION IS A PUBLIC DOCUMENT: Vendor's entire response to the Solicitation and the resulting Contract are public documents. As public documents, they will be disclosed to the public following the bid/proposal opening or award of the contract, as required by the competitive bidding laws of West Virginia Code §§ 5A-3-1 et seq., 5-22-1 et seq., and 5G-1-1 et seq. and the Freedom of Information Act West Virginia Code §§ 29B-1-1 et seq.

DO NOT SUBMIT MATERIAL YOU CONSIDER TO BE CONFIDENTIAL, A TRADE SECRET, OR OTHERWISE NOT SUBJECT TO PUBLIC DISCLOSURE.

Submission of any bid, proposal, or other document to the Purchasing Division constitutes your explicit consent to the subsequent public disclosure of the bid, proposal, or document. The Purchasing Division will disclose any document labeled "confidential," "proprietary," "trade secret," "private," or labeled with any other claim against public disclosure of the documents, to include any "trade secrets" as defined by West Virginia Code § 47-22-1 et seq. All submissions are subject to public disclosure without notice.

- 22. WITH THE BID REQUIREMENTS: In instances where these specifications require documentation or other information with the bid, and a vendor fails to provide it with the bid, the Director of the Purchasing Division reserves the right to request those items after bid opening and prior to contract award pursuant to the authority to waive minor irregularities in bids or specifications under W. Va. CSR § 148-1-4.6. This authority does not apply to instances where state law mandates receipt with the bid.
- 23. EMAIL NOTIFICATION OF AWARD: The Purchasing Division will attempt to provide bidders with e-mail notification of contract award when a solicitation that the bidder participated in has been awarded. For notification purposes, bidders must provide the Purchasing Division with a valid email address in the bid response. Bidders may also monitor wvOASIS or the Purchasing Division's website to determine when a contract has been awarded.
- 24. ISRAEL BOYCOTT CERTIFICATION: Vendor's act of submitting a bid in response to this solicitation shall be deemed a certification from bidder to the State that bidder is not currently engaged in, and will not for the duration of the contract, engage in a boycott of Israel. This certification is required by W. Va. Code § 5A-3-63.

GENERAL TERMS AND CONDITIONS:

- 1. CONTRACTUAL AGREEMENT: Issuance of an Award Document signed by the Purchasing Division Director, or his designee, and approved as to form by the Attorney General's office constitutes acceptance by the State of this Contract made by and between the State of West Virginia and the Vendor. Vendor's signature on its bid, or on the Contract if the Contract is not the result of a bid solicitation, signifies Vendor's agreement to be bound by and accept the terms and conditions contained in this Contract.
- 2. **DEFINITIONS:** As used in this Solicitation/Contract, the following terms shall have the meanings attributed to them below. Additional definitions may be found in the specifications included with this Solicitation/Contract.
- 2.1. "Agency" or "Agencies" means the agency, board, commission, or other entity of the State of West Virginia that is identified on the first page of the Solicitation or any other public entity seeking to procure goods or services under this Contract.
- 2.2. "Bid" or "Proposal" means the vendors submitted response to this solicitation.
- **2.3. "Contract"** means the binding agreement that is entered into between the State and the Vendor to provide the goods or services requested in the Solicitation.
- **2.4. "Director"** means the Director of the West Virginia Department of Administration, Purchasing Division.
- 2.5. "Purchasing Division" means the West Virginia Department of Administration, Purchasing Division.
- **2.6. "Award Document"** means the document signed by the Agency and the Purchasing Division, and approved as to form by the Attorney General, that identifies the Vendor as the contract holder.
- **2.7. "Solicitation"** means the official notice of an opportunity to supply the State with goods or services that is published by the Purchasing Division.
- 2.8. "State" means the State of West Virginia and/or any of its agencies, commissions, boards, etc. as context requires.
- 2.9. "Vendor" or "Vendors" means any entity submitting a bid in response to the Solicitation, the entity that has been selected as the lowest responsible bidder, or the entity that has been awarded the Contract as context requires.

determined in accordance with the category that has been identified as applicable to this Contract below:
✓ Term Contract
Initial Contract Term: The Initial Contract Term will be for a period of one year upon approval. The Initial Contract Term becomes effective on the effective start date listed on the first page of this Contract, identified as the State of West Virginia contract cover page containing the signatures of the Purchasing Division, Attorney General, and Encumbrance clerk (or another page identified as), and the Initial Contract Term ends on the effective end date also shown on the first page of this Contract.
Renewal Term: This Contract may be renewed upon the mutual written consent of the Agency, and the Vendor, with approval of the Purchasing Division and the Attorney General's office (Attorney General approval is as to form only). Any request for renewal should be delivered to the Agency and then submitted to the Purchasing Division thirty (30) days prior to the expiration date of the initial contract term or appropriate renewal term. A Contract renewal shall be in accordance with the terms and conditions of the original contract. Unless otherwise specified below, renewal of this Contract is limited to THREE successive one (1) year periods or multiple renewal periods of less than one year, provided that the multiple renewal periods do not exceed the total number of months available in all renewal years combined. Automatic renewal of this Contract is prohibited. Renewals must be approved by the Vendor, Agency, Purchasing Division and Attorney General's office (Attorney General approval is as to form only)
Successive year periods or shorter periods provided that they do not exceed the total number of months contained in all available renewals. Automatic renewal of this Contract is prohibited. Renewals must be approved by the Vendor, Agency, Purchasing Division and Attorney General's office (Attorney General approval is as to form only)
Delivery Order Limitations: In the event that this contract permits delivery orders, a delivery order may only be issued during the time this Contract is in effect. Any delivery order issued within one year of the expiration of this Contract shall be effective for one year from the date the delivery order is issued. No delivery order may be extended beyond one year after this Contract has expired.
Fixed Period Contract: This Contract becomes effective upon Vendor's receipt of the notice to proceed and must be completed withindays.
Fixed Period Contract with Renewals: This Contract becomes effective upon Vendor's receipt of the notice to proceed and part of the Contract more fully described in the attached specifications must be completed within days. Upon completion of the work covered by the preceding sentence, the vendor agrees that:
the contract will continue for years;

the contract may be renewe	ed for successive
year periods or shorter periods	provided that they do not exceed the total number of
months contained in all availab	ble renewals. Automatic renewal of this Contract is
prohibited. Renewals must be a	approved by the Vendor, Agency, Purchasing Division
and Attorney General's Office	(Attorney General approval is as to form only).
	of this Contract shall run from the issuance of the Award tracted for have been delivered, but in no event will this scal year.
Construction/Project Oversight	t: This Contract becomes effective on the effective start
_ , ,	ontract, identified as the State of West Virginia contract
	es of the Purchasing Division, Attorney General, and
Elicanioranee ciera (o	and continues until the project for which the
vendor is providing oversight is com-	or another page identified as), and continues until the project for which the plete.
vender is providing everinging is comp	prote.
Other: Contract Term specified i	in
the date of encumbrance listed on the fr "Fixed Period Contract" or "Fixed Period above. If either "Fixed Period Contract checked, Vendor must not begin work u The notice to proceed will then be incor official date that work commenced. 5. QUANTITIES: The quantities re with the category that has been ident	Vendor is authorized to begin performance of this contract on ront page of the Award Document unless either the box for od Contract with Renewals" has been checked in Section 3 "or "Fixed Period Contract with Renewals" has been until it receives a separate notice to proceed from the State. reporated into the Contract via change order to memorialize the equired under this Contract shall be determined in accordance diffied as applicable to this Contract below.
approximations only, based on estim	listed in this Solicitation/Award Document are nates supplied by the Agency. It is understood and agreed ntities actually ordered for delivery during the term of the the quantities shown.
Service: The scope of the service specifications included herewith.	to be provided will be more clearly defined in the
	The scope of the service and deliverable goods to be d in the specifications included herewith.
are identified in the specifications in no additional goods may be procured	ract is for the purchase of a set quantity of goods that cluded herewith. Once those items have been delivered, d under this Contract without an appropriate change acy, Purchasing Division, and Attorney General's

- 6. EMERGENCY PURCHASES: The Purchasing Division Director may authorize the Agency to purchase goods or services in the open market that Vendor would otherwise provide under this Contract if those goods or services are for immediate or expedited delivery in an emergency. Emergencies shall include, but are not limited to, delays in transportation or an unanticipated increase in the volume of work. An emergency purchase in the open market, approved by the Purchasing Division Director, shall not constitute of breach of this Contract and shall not entitle the Vendor to any form of compensation or damages. This provision does not excuse the State from fulfilling its obligations under a One-Time Purchase contract.
- 7. REQUIRED DOCUMENTS: All of the items checked in this section must be provided to the Purchasing Division by the Vendor as specified:

BID BOND (Construction Only): Pursuant to the requirements contained in W. Va. Code §
5-22-1(c), All Vendors submitting a bid on a construction project shall furnish a valid bid bond
in the amount of five percent (5%) of the total amount of the bid protecting the State of West Virginia. The bid bond must be submitted with the bid.
PERFORMANCE BOND: The apparent successful Vendor shall provide a performance

☐ PERFORMANCE BOND: The apparent successful Vendor shall provide a performance bond in the amount of 100% of the contract. The performance bond must be received by the Purchasing Division prior to Contract award.

LABOR/MATERIAL PAYMENT BOND: The apparent successful Vendor shall provide a labor/material payment bond in the amount of 100% of the Contract value. The labor/material payment bond must be delivered to the Purchasing Division prior to Contract award.

In lieu of the Bid Bond, Performance Bond, and Labor/Material Payment Bond, the Vendor may provide certified checks, cashier's checks, or irrevocable letters of credit. Any certified check, cashier's check, or irrevocable letter of credit provided in lieu of a bond must be of the same amount and delivered on the same schedule as the bond it replaces. A letter of credit submitted in lieu of a performance and labor/material payment bond will only be allowed for projects under \$100,000. Personal or business checks are not acceptable. Notwithstanding the foregoing, West Virginia Code § 5-22-1 (d) mandates that a vendor provide a performance and labor/material payment bond for construction projects. Accordingly, substitutions for the performance and labor/material payment bonds for construction projects is not permitted.

MAINTENANCE BOND: The apparent successful Vendor shall provide a two (2) year maintenance bond covering the roofing system. The maintenance bond must be issued and delivered to the Purchasing Division prior to Contract award.

LICENSE(S) / CERTIFICATIONS / PERMITS: In addition to anything required under the Section of the General Terms and Conditions entitled Licensing, the apparent successful Vendor shall furnish proof of the following licenses, certifications, and/or permits upon request and in a form acceptable to the State. The request may be prior to or after contract award at the State's sole discretion.

The apparent successful Vendor shall also furnish proof of any additional licenses or certifications contained in the specifications regardless of whether or not that requirement is listed above.

8. INSURANCE: The apparent successful Vendor shall furnish proof of the insurance identified by a checkmark below and must include the State as an additional insured on each policy prior to Contract award. The insurance coverages identified below must be maintained throughout the life of this contract. Thirty (30) days prior to the expiration of the insurance policies, Vendor shall provide the Agency with proof that the insurance mandated herein has been continued. Vendor must also provide Agency with immediate notice of any changes in its insurance policies, including but not limited to, policy cancelation, policy reduction, or change in insurers. The apparent successful Vendor shall also furnish proof of any additional insurance requirements contained in the specifications prior to Contract award regardless of whether that insurance requirement is listed in this section.

Vendor must maintain:
✓ Commercial General Liability Insurance in at least an amount of: \$1,000,000.00 per occurrence.
Automobile Liability Insurance in at least an amount of: \$1,000,000.00 per occurrence.
Professional/Malpractice/Errors and Omission Insurance in at least an amount of: per occurrence. Notwithstanding the forgoing, Vendor's are not required to list the State as an additional insured for this type of policy.
Commercial Crime and Third Party Fidelity Insurance in an amount of: per occurrence.
Cyber Liability Insurance in an amount of: per occurrence.
Builders Risk Insurance in an amount equal to 100% of the amount of the
Contract.
Pollution Insurance in an amount of: per occurrence.
Aircraft Liability in an amount of: per occurrence.
State of West Virginia must be listed as additional insured on Insurance Certificate. Certificate holder should read as follows:
State of WV 1900 Kanawha Blvd. E., Bldg.5 Charleston, WV 25305

Notwithstanding anything contained in this section to the contrary, the Director of the Purchasing Division reserves the right to waive the requirement that the State be named as an additional insured on one or more of the Vendor's insurance policies if the Director finds that doing so is in the State's best interest.

9. WORKERS' COMPENSATION INSURANCE: Vendor shall comply with laws relating to workers compensation, shall maintain workers' compensation insurance when required, and shall furnish proof of workers' compensation insurance upon request.

10. [Reserved]

not limit the State or Age	AAGES: This clause shall in no way be con ency's right to pursue any other available re amount specified below or as described in	medy. Vendor shall pay
D	for	
Liquidated Dam	ages Contained in the Specifications.	
Liquidated Dam	ages Are Not Included in this Contract.	

- 12. ACCEPTANCE: Vendor's signature on its bid, or on the certification and signature page, constitutes an offer to the State that cannot be unilaterally withdrawn, signifies that the product or service proposed by vendor meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise indicated, and signifies acceptance of the terms and conditions contained in the Solicitation unless otherwise indicated.
- 13. PRICING: The pricing set forth herein is firm for the life of the Contract, unless specified elsewhere within this Solicitation/Contract by the State. A Vendor's inclusion of price adjustment provisions in its bid, without an express authorization from the State in the Solicitation to do so, may result in bid disqualification. Notwithstanding the foregoing, Vendor must extend any publicly advertised sale price to the State and invoice at the lower of the contract price or the publicly advertised sale price.
- 14. PAYMENT IN ARREARS: Payments for goods/services will be made in arrears only upon receipt of a proper invoice, detailing the goods/services provided or receipt of the goods/services, whichever is later. Notwithstanding the foregoing, payments for software maintenance, licenses, or subscriptions may be paid annually in advance.
- 15. PAYMENT METHODS: Vendor must accept payment by electronic funds transfer and P-Card. (The State of West Virginia's Purchasing Card program, administered under contract by a banking institution, processes payment for goods and services through state designated credit cards.)
- 16. TAXES: The Vendor shall pay any applicable sales, use, personal property or any other taxes arising out of this Contract and the transactions contemplated thereby. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.

- 17. ADDITIONAL FEES: Vendor is not permitted to charge additional fees or assess additional charges that were not either expressly provided for in the solicitation published by the State of West Virginia, included in the Contract, or included in the unit price or lump sum bid amount that Vendor is required by the solicitation to provide. Including such fees or charges as notes to the solicitation may result in rejection of vendor's bid. Requesting such fees or charges be paid after the contract has been awarded may result in cancellation of the contract.
- 18. FUNDING: This Contract shall continue for the term stated herein, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise made available, this Contract becomes void and of no effect beginning on July 1 of the fiscal year for which funding has not been appropriated or otherwise made available. If that occurs, the State may notify the Vendor that an alternative source of funding has been obtained and thereby avoid the automatic termination. Non-appropriation or non-funding shall not be considered an event of default.
- 19. CANCELLATION: The Purchasing Division Director reserves the right to cancel this Contract immediately upon written notice to the vendor if the materials or workmanship supplied do not conform to the specifications contained in the Contract. The Purchasing Division Director may also cancel any purchase or Contract upon 30 days written notice to the Vendor in accordance with West Virginia Code of State Rules § 148-1-5.2.b.
- 20. TIME: Time is of the essence regarding all matters of time and performance in this Contract.
- 21. APPLICABLE LAW: This Contract is governed by and interpreted under West Virginia law without giving effect to its choice of law principles. Any information provided in specification manuals, or any other source, verbal or written, which contradicts or violates the West Virginia Constitution, West Virginia Code, or West Virginia Code of State Rules is void and of no effect.
- 22. COMPLIANCE WITH LAWS: Vendor shall comply with all applicable federal, state, and local laws, regulations and ordinances. By submitting a bid, Vendor acknowledges that it has reviewed, understands, and will comply with all applicable laws, regulations, and ordinances.
 - **SUBCONTRACTOR COMPLIANCE:** Vendor shall notify all subcontractors providing commodities or services related to this Contract that as subcontractors, they too are required to comply with all applicable laws, regulations, and ordinances. Notification under this provision must occur prior to the performance of any work under the contract by the subcontractor.
- 23. ARBITRATION: Any references made to arbitration contained in this Contract, Vendor's bid, or in any American Institute of Architects documents pertaining to this Contract are hereby deleted, void, and of no effect.

- 24. MODIFICATIONS: This writing is the parties' final expression of intent.

 Notwithstanding anything contained in this Contract to the contrary no modification of this Contract shall be binding without mutual written consent of the Agency, and the Vendor, with approval of the Purchasing Division and the Attorney General's office (Attorney General approval is as to form only). Any change to existing contracts that adds work or changes contract cost, and were not included in the original contract, must be approved by the Purchasing Division and the Attorney General's Office (as to form) prior to the implementation of the change or commencement of work affected by the change.
- 25. WAIVER: The failure of either party to insist upon a strict performance of any of the terms or provision of this Contract, or to exercise any option, right, or remedy herein contained, shall not be construed as a waiver or a relinquishment for the future of such term, provision, option, right, or remedy, but the same shall continue in full force and effect. Any waiver must be expressly stated in writing and signed by the waiving party.
- 26. SUBSEQUENT FORMS: The terms and conditions contained in this Contract shall supersede any and all subsequent terms and conditions which may appear on any form documents submitted by Vendor to the Agency or Purchasing Division such as price lists, order forms, invoices, sales agreements, or maintenance agreements, and includes internet websites or other electronic documents. Acceptance or use of Vendor's forms does not constitute acceptance of the terms and conditions contained thereon.
- 27. ASSIGNMENT: Neither this Contract nor any monies due, or to become due hereunder, may be assigned by the Vendor without the express written consent of the Agency, the Purchasing Division, the Attorney General's office (as to form only), and any other government agency or office that may be required to approve such assignments.
- 28. WARRANTY: The Vendor expressly warrants that the goods and/or services covered by this Contract will: (a) conform to the specifications, drawings, samples, or other description furnished or specified by the Agency; (b) be merchantable and fit for the purpose intended; and (c) be free from defect in material and workmanship.
- 29. STATE EMPLOYEES: State employees are not permitted to utilize this Contract for personal use and the Vendor is prohibited from permitting or facilitating the same.
- 30. PRIVACY, SECURITY, AND CONFIDENTIALITY: The Vendor agrees that it will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the Agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the Agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in http://www.state.wv.us/admin/purchase/privacy/default.html.

31. YOUR SUBMISSION IS A PUBLIC DOCUMENT: Vendor's entire response to the Solicitation and the resulting Contract are public documents. As public documents, they will be disclosed to the public following the bid/proposal opening or award of the contract, as required by the competitive bidding laws of West Virginia Code §§ 5A-3-1 et seq., 5-22-1 et seq., and 5G-1-1 et seq. and the Freedom of Information Act West Virginia Code §§ 29B-1-1 et seq.

DO NOT SUBMIT MATERIAL YOU CONSIDER TO BE CONFIDENTIAL, A TRADE SECRET, OR OTHERWISE NOT SUBJECT TO PUBLIC DISCLOSURE.

Submission of any bid, proposal, or other document to the Purchasing Division constitutes your explicit consent to the subsequent public disclosure of the bid, proposal, or document. The Purchasing Division will disclose any document labeled "confidential," "proprietary," "trade secret," "private," or labeled with any other claim against public disclosure of the documents, to include any "trade secrets" as defined by West Virginia Code § 47-22-1 et seq. All submissions are subject to public disclosure without notice.

32. LICENSING: In accordance with West Virginia Code of State Rules § 148-1-6.1.e, Vendor must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agency or political subdivision. Obligations related to political subdivisions may include, but are not limited to, business licensing, business and occupation taxes, inspection compliance, permitting, etc. Upon request, the Vendor must provide all necessary releases to obtain information to enable the Purchasing Division Director or the Agency to verify that the Vendor is licensed and in good standing with the above entities.

SUBCONTRACTOR COMPLIANCE: Vendor shall notify all subcontractors providing commodities or services related to this Contract that as subcontractors, they too are required to be licensed, in good standing, and up-to-date on all state and local obligations as described in this section. Obligations related to political subdivisions may include, but are not limited to, business licensing, business and occupation taxes, inspection compliance, permitting, etc. Notification under this provision must occur prior to the performance of any work under the contract by the subcontractor.

33. ANTITRUST: In submitting a bid to, signing a contract with, or accepting a Award Document from any agency of the State of West Virginia, the Vendor agrees to convey, sell, assign, or transfer to the State of West Virginia all rights, title, and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to Vendor.

34. VENDOR CERTIFICATIONS: By signing its bid or entering into this Contract, Vendor certifies (1) that its bid or offer was made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, person or entity submitting a bid or offer for the same material, supplies, equipment or services; (2) that its bid or offer is in all respects fair and without collusion or fraud; (3) that this Contract is accepted or entered into without any prior understanding, agreement, or connection to any other entity that could be considered a violation of law; and (4) that it has reviewed this Solicitation in its entirety; understands the requirements, terms and conditions, and other information contained herein.

Vendor's signature on its bid or offer also affirms that neither it nor its representatives have any interest, nor shall acquire any interest, direct or indirect, which would compromise the performance of its services hereunder. Any such interests shall be promptly presented in detail to the Agency. The individual signing this bid or offer on behalf of Vendor certifies that he or she is authorized by the Vendor to execute this bid or offer or any documents related thereto on Vendor's behalf; that he or she is authorized to bind the Vendor in a contractual relationship; and that, to the best of his or her knowledge, the Vendor has properly registered with any State agency that may require registration.

35. VENDOR RELATIONSHIP: The relationship of the Vendor to the State shall be that of an independent contractor and no principal-agent relationship or employer-employee relationship is contemplated or created by this Contract. The Vendor as an independent contractor is solely liable for the acts and omissions of its employees and agents. Vendor shall be responsible for selecting, supervising, and compensating any and all individuals employed pursuant to the terms of this Solicitation and resulting contract. Neither the Vendor, nor any employees or subcontractors of the Vendor, shall be deemed to be employees of the State for any purpose whatsoever. Vendor shall be exclusively responsible for payment of employees and contractors for all wages and salaries, taxes, withholding payments, penalties, fees, fringe benefits, professional liability insurance premiums, contributions to insurance and pension, or other deferred compensation plans, including but not limited to, Workers' Compensation and Social Security obligations, licensing fees, etc. and the filing of all necessary documents, forms, and returns pertinent to all of the foregoing.

Vendor shall hold harmless the State, and shall provide the State and Agency with a defense against any and all claims including, but not limited to, the foregoing payments, withholdings, contributions, taxes, Social Security taxes, and employer income tax returns.

- 36. INDEMNIFICATION: The Vendor agrees to indemnify, defend, and hold harmless the State and the Agency, their officers, and employees from and against: (1) Any claims or losses for services rendered by any subcontractor, person, or firm performing or supplying services, materials, or supplies in connection with the performance of the Contract; (2) Any claims or losses resulting to any person or entity injured or damaged by the Vendor, its officers, employees, or subcontractors by the publication, translation, reproduction, delivery, performance, use, or disposition of any data used under the Contract in a manner not authorized by the Contract, or by Federal or State statutes or regulations; and (3) Any failure of the Vendor, its officers, employees, or subcontractors to observe State and Federal laws including, but not limited to, labor and wage and hour laws.
- 37. NO DEBT CERTIFICATION: In accordance with West Virginia Code §§ 5A-3-10a and 5-22-1(i), the State is prohibited from awarding a contract to any bidder that owes a debt to the State or a political subdivision of the State. By submitting a bid, or entering into a contract with the State, Vendor is affirming that (1) for construction contracts, the Vendor is not in default on any monetary obligation owed to the state or a political subdivision of the state, and (2) for all other contracts, neither the Vendor nor any related party owe a debt as defined above, and neither the Vendor nor any related party are in employer default as defined in the statute cited above unless the debt or employer default is permitted under the statute.
- 38. CONFLICT OF INTEREST: Vendor, its officers or members or employees, shall not presently have or acquire an interest, direct or indirect, which would conflict with or compromise the performance of its obligations hereunder. Vendor shall periodically inquire of its officers, members and employees to ensure that a conflict of interest does not arise. Any conflict of interest discovered shall be promptly presented in detail to the Agency.
- following reports identified by a checked box below:

 Such reports as the Agency and/or the Purchasing Division may request. Requested reports may include, but are not limited to, quantities purchased, agencies utilizing the contract, total contract expenditures by agency, etc.

39. REPORTS: Vendor shall provide the Agency and/or the Purchasing Division with the

Quarterly reports detailing the total quantity of purchases in units and dollars, along with a listing of purchases by agency. Quarterly reports should be delivered to the Purchasing Division via email at purchasing.division@wv.gov.

40. BACKGROUND CHECK: In accordance with W. Va. Code § 15-2D-3, the State reserves the right to prohibit a service provider's employees from accessing sensitive or critical information or to be present at the Capitol complex based upon results addressed from a criminal background check. Service providers should contact the West Virginia Division of Protective Services by phone at (304) 558-9911 for more information.

- 41. PREFERENCE FOR USE OF DOMESTIC STEEL PRODUCTS: Except when authorized by the Director of the Purchasing Division pursuant to W. Va. Code § 5A-3-56, no contractor may use or supply steel products for a State Contract Project other than those steel products made in the United States. A contractor who uses steel products in violation of this section may be subject to civil penalties pursuant to W. Va. Code § 5A-3-56. As used in this section:
 - a. "State Contract Project" means any erection or construction of, or any addition to, alteration of or other improvement to any building or structure, including, but not limited to, roads or highways, or the installation of any heating or cooling or ventilating plants or other equipment, or the supply of and materials for such projects, pursuant to a contract with the State of West Virginia for which bids were solicited on or after June 6, 2001.
 - b. "Steel Products" means products rolled, formed, shaped, drawn, extruded, forged, cast, fabricated or otherwise similarly processed, or processed by a combination of two or more or such operations, from steel made by the open heath, basic oxygen, electric furnace, Bessemer or other steel making process.
 - c. The Purchasing Division Director may, in writing, authorize the use of foreign steel products if:
 - 1. The cost for each contract item used does not exceed one tenth of one percent (.1%) of the total contract cost or two thousand five hundred dollars (\$2,500.00), whichever is greater. For the purposes of this section, the cost is the value of the steel product as delivered to the project; or
 - 2. The Director of the Purchasing Division determines that specified steel materials are not produced in the United States in sufficient quantity or otherwise are not reasonably available to meet contract requirements.

42. PREFERENCE FOR USE OF DOMESTIC ALUMINUM, GLASS, AND STEEL: In Accordance with W. Va. Code § 5-19-1 et seq., and W. Va. CSR § 148-10-1 et seq., for every contract or subcontract, subject to the limitations contained herein, for the construction, reconstruction, alteration, repair, improvement or maintenance of public works or for the purchase of any item of machinery or equipment to be used at sites of public works, only domestic aluminum, glass or steel products shall be supplied unless the spending officer determines, in writing, after the receipt of offers or bids, (1) that the cost of domestic aluminum, glass or steel products is unreasonable or inconsistent with the public interest of the State of West Virginia, (2) that domestic aluminum, glass or steel products are not produced in sufficient quantities to meet the contract requirements, or (3) the available domestic aluminum, glass, or steel do not meet the contract specifications. This provision only applies to public works contracts awarded in an amount more than fifty thousand dollars (\$50,000) or public works contracts that require more than ten thousand pounds of steel products.

The cost of domestic aluminum, glass, or steel products may be unreasonable if the cost is more than twenty percent (20%) of the bid or offered price for foreign made aluminum, glass, or steel products. If the domestic aluminum, glass or steel products to be supplied or produced in a "substantial labor surplus area", as defined by the United States Department of Labor, the cost of domestic aluminum, glass, or steel products may be unreasonable if the cost is more than thirty percent (30%) of the bid or offered price for foreign made aluminum, glass, or steel Revised 07/01/2022

products. This preference shall be applied to an item of machinery or equipment, as indicated above, when the item is a single unit of equipment or machinery manufactured primarily of aluminum, glass or steel, is part of a public works contract and has the sole purpose or of being a permanent part of a single public works project. This provision does not apply to equipment or machinery purchased by a spending unit for use by that spending unit and not as part of a single public works project.

All bids and offers including domestic aluminum, glass or steel products that exceed bid or offer prices including foreign aluminum, glass or steel products after application of the preferences provided in this provision may be reduced to a price equal to or lower than the lowest bid or offer price for foreign aluminum, glass or steel products plus the applicable preference. If the reduced bid or offer prices are made in writing and supersede the prior bid or offer prices, all bids or offers, including the reduced bid or offer prices, will be reevaluated in accordance with this rule.

- 43. INTERESTED PARTY SUPPLEMENTAL DISCLOSURE: W. Va. Code § 6D-1-2 requires that for contracts with an actual or estimated value of at least \$1 million, the Vendor must submit to the Agency a disclosure of interested parties prior to beginning work under this Contract. Additionally, the Vendor must submit a supplemental disclosure of interested parties reflecting any new or differing interested parties to the contract, which were not included in the original pre-work interested party disclosure, within 30 days following the completion or termination of the contract. A copy of that form is included with this solicitation or can be obtained from the WV Ethics Commission. This requirement does not apply to publicly traded companies listed on a national or international stock exchange. A more detailed definition of interested parties can be obtained from the form referenced above.
- 44. PROHIBITION AGAINST USED OR REFURBISHED: Unless expressly permitted in the solicitation published by the State, Vendor must provide new, unused commodities, and is prohibited from supplying used or refurbished commodities, in fulfilling its responsibilities under this Contract.
- 45. VOID CONTRACT CLAUSES This Contract is subject to the provisions of West Virginia Code § 5A-3-62, which automatically voids certain contract clauses that violate State law.
- **46. ISRAEL BOYCOTT:** Bidder understands and agrees that, pursuant to W. Va. Code § 5A-3-63, it is prohibited from engaging in a boycott of Israel during the term of this contract.

DESIGNATED CONTACT: Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

(Name, Title) Manager Highway Sales
(Printed Name and Title) Harrison Green Manager Highway Sales
(Address) 9900 W. 109th St., Overland Park, KS 66210
(Phone Number) / (Fax Number) <u>800-323-1641 / 913-338-7945</u>
(email address) highwaygroup@compassminerals.com

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that: I have reviewed this Solicitation/Contract in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation/Contract for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

By signing below, I further certify that I understand this Contract is subject to the provisions of West Virginia Code § 5A-3-62, which automatically voids certain contract clauses that violate State law; and that pursuant to W. Va. Code 5A-3-63, the entity entering into this contract is prohibited from engaging in a boycott against Israel.

Company (Company)	
(Company) Harrison Green - Manager Highway Sales	
(Authorized Signature) (Representative Name, Title)	 :
Harrison Green - Manager Highway Sales (Printed Name and Title of Authorized Representative) (Date)	
800-323-1641 / 913-338-7945	
(Phone Number) (Fax Number)	
highwaygroup@compassminerals.com	
(Email Address)	

SPECIFICATIONS

- 1. PURPOSE AND SCOPE: The West Virginia Purchasing Division is soliciting bids on behalf of the West Virginia Division of Highways and the West Virginia Parkways Authority to establish an open-end contract for roadway salt, as needed and on a continuing basis, for use in snow removal and ice control throughout the state of West Virginia for delivery of materials by Vendor, FOB. to Agency storage locations per county as well as Agency pick up from Vendor storage sites. All responsible Vendors will be awarded a contract based on low-bid unit price per location.
- 2. **DEFINITIONS:** The terms listed below shall have the following meanings assigned to them throughout and for the purpose of this Solicitation. Additional definitions can be found in Section 2 of the General Terms and Conditions.
 - 2.1 "ADO" or Agency "Delivery Order" A written order entered by WVDOH personnel in the wvOASIS financial system against a master agreement, authorizing quantities of commodities and/or services to be delivered in accordance with all terms, conditions, and prices stipulated in the original contract.
 - 2.2 "AASHTO" The American Association of State Highway and Transportation Officials is a standard body which publishes specifications, tests protocols, and guidelines that are used in highway design and construction throughout the United States. Reference: www.transportation.org
 - 2.3 "ASTM International" and "ASTM" the international standards organization that develops and publishes voluntary consensus technical standards for a wide range of materials, products, systems, and services, formerly known as the American Society for Testing and Materials. Reference: www.astm.org
 - **2.4** "Above the Guaranteed Delivery Total" salt ordered in excess of 120% of the Vendor's guaranteed delivery total awarded.
 - 2.5 "Attachment A," "Pricing Pages by Delivery," and "ATT A" interchangeable terms referring to the schedule of prices attached hereto as Attachment A ("ATT A") upon which Vendor should list its pricing for the delivery of Contract Items.
 - 2.6 "Attachment B," "Pricing Pages by Agency Pick Up" and "ATT B" interchangeable terms referring to the schedule of prices attached hereto as Attachment B (ATT B) upon which Vendor should list its storage site locations and pricing for WVDOH Agency pick up of roadway salt from Vendor storage site locations.
 - 2.7 "Contract Item(s)" the list of items available for Vendor to provide pricing as identified in Section 3 of this Solicitation and referenced throughout.

- 2.8 "Contractor" or "Vendor" interchangeable terms referring to any person or entity that submits a bid in response to the Solicitation, the entity that has been selected as the lowest responsible bidder, or the entity that has been awarded contract items through this contract.
- 2.9 "Emergency Requests"- requests for Contract Items to be fulfilled without delay, owing to circumstances for which the WVDOH could not have reasonably expected and has been designated as such by a representative of the WVDOH.
- 2.10 "FOB" or "Free on Board" indicates that the price for goods includes delivery at the Vendor's expense to a specified point, and that the Vendor retains liability for loss or damage until the goods are delivered.
- **2.11** "Free-flowing" easy continuous natural progression movement without stoppage.
- 2.12 "Guaranteed Acceptance Total" the Agency guarantees to accept 80% of the Vendor's collective awarded salt-tonnage total (all WV counties) if delivered within the guaranteed delivery period.
- 2.13 "Guaranteed Delivery Period" the timeframe or date that salt delivery is due, as specified herein and/or on the ordering Agency's Delivery Order during SRIC season, non-SRIC season, and/or identified emergencies.
- 2.14 "Guaranteed Delivery Total" the Vendor guarantees delivery of 120% of its collective awarded salt-tonnage (all WV counties) total, if delivered within the guaranteed delivery period.
- 2.15 "Liquidated Damages" monetary compensation due from the Vendor in the event the Vendor's performance falls short of contractual stipulation or breaches the contract. Delays in the delivery of goods and/or services or quality failures or corrections by the Vendor may result in the Agency assessing charges for such deficiencies per these contract Specifications, the Standard Specs Section 108.7, as amended, and calculated from the table posted in Section 7.9.1 of these Specifications.
- 2.16 "MSDS" and "Material Safety Data Sheets" detailed informational documents provided by manufacturers outlining the physical and chemical properties of a product, potential physical and health hazards, and procedures for safe handling.
- 2.17 "MP" refers to a Materials Procedure per the Materials Control, Soils, and Testing Division of the West Virginia Division of Highways. Reference: https://transportation.wv.gov/highways/mcst/Pages/WVDOH-Materials-Procedures.aspx

- 2.18 "OSHA" Occupational Safety and Health Administration. Reference: www.osha.gov.
- 2.19 "Solicitation" The official notice of an opportunity to supply the State with goods or services.
- 2.20 "Sodium Chloride," "Rock Salt," and "Roadway Salt" the natural mined mineral used for de-icing roadways.
- 2.21 "SRIC" Snow Removal and Ice Control.
- 2.22 "Standard Specs" used throughout this solicitation means the West Virginia Department of Transportation, Division of Highways Standard Specifications, Roads and Bridges, most recent edition, as modified or amended by all subsequent Supplemental Specifications.
- 2.23 "USFWS" The United States Fish and Wildlife Services: www.fws.gov/.
- 2.24 "WVDOH" or "Agency"— the West Virginia Division of Highways.
- 2.25 "WV Parkways Authority," "Parkways," and "Agency" the West Virginia Parkways Authority.

3. GENERAL REQUIREMENTS:

3.1 Standard Specifications Roads and Bridges: The following Standard Specs Sections shall apply, as applicable, to the administration of this contract: 101, 102, 103, 104, 105, 106, 107, 108, 109, and 110, as amended.

Materials, equipment, and performance of this contract shall conform, but not be limited to, the requirements of Sections 204, 636, and 715.2, as amended.

A hard copy of the current Standard Specs may be purchased by using the Attachment C (ATT C) Standard Specifications Order Form. The completed form should be submitted by email to <u>DOTSpecifications@wv.gov</u> or mailed to:

West Virginia Division of Highways Technical Support Division 1334 Smith Street Charleston, West Virginia 25301

A free electronic copy of the Standard Specs may be obtained by sourcing: http://transportation.wv.gov/highways/contractadmin/specifications/Pages/default.aspx

- 3.2 Documentation to be Included with the Bid: Vendors should carefully read the entire solicitation invitation. The Vendor should include as part of their bid response:
 - Certification and Signature Page (within General Terms and Conditions)
 - Addendum Acknowledgement Form
 - Valid West Virginia Contractor's License, if applicable.
 - Contract Manager Page (Section 9.4 of these Specifications)
 - Valid Certificate of Insurance; and
 - Any other required forms or supporting information as described herein.

Omitting any required forms, attachments, or documentation as described throughout this contract could deem a bid non-responsive and result in the disqualification of the Vendor's bid response.

- 3.3 Contract Items and Mandatory Requirements: Vendor shall provide Agency with the Contract Items specified herein on an open-end and continuing basis, F.O.B. destination. Contract Items must meet or exceed the mandatory requirements as shown below.
 - 3.3.1 Sodium Chloride: Shall conform to the requirements of the most current version of ASTM D632 and ASTM E534, as amended. Vendor shall provide MSDS information to the WV Purchasing Division prior to award of a contract.
 - 3.3.2 Anti-Clumping Material: If an anti-clumping agent will potentially be applied to salt for either delivery or pick up, the Vendor shall provide the MSDS information prior to award of a contract.
- 3.4 Sampling and Testing: Prior to award of this contract, the Vendor shall provide its proposed source of supply to the WVDOH, along with the supplier's certification of quality and gradation. Acceptance shall be based on suppliers' certification of quality and gradation. This information shall be directed to:

WVDOH Materials Control, Soils and Testing Division 190 Dry Branch Road Charleston, WV 25306 Phone: 304-558-3175

The WVDOH may conduct sampling and testing at any ti8me throughout the term of this contract to verify material quality and/or gradation.

3.4.1 Moisture Content: All material shall be covered in transit. Moisture content shall not exceed 2.0% by weight for stockpile delivery. Laboratory testing for moisture shall be administered in accordance with ASTM E534,

as amended, at any time during the delivery. Upon visual inspection by the Agency/WVDOH District Manager or designee, any supplied sodium chloride that does not appear to meet ASTM E534 (such as material being saturated/free flowing with water) will be sampled and tested by the WVDOH. Three samples, one each from the top, middle and bottom of the load, will be pulled by Agency personnel, witnessed, and signed off on by the delivery driver. The supplier will be notified of sampling within 48 hours and will be notified of test results within seven (7) business days of completion testing. Upon testing and with each delivery, the supplier shall be responsible for the weight of water in excess of 2.0%, by deducting the excess amount from the price. Price adjustment shall be calculated as follows:

*EXAMPLE: For a delivery of 75 tons at \$45.00/ton, if the moisture content is found to be 3.5% (1.5% greater than 2.0%), the formula shall be:

- 75 tons multiplied by \$45.00 to equal \$3,375.00 price.
- \$3,375.00 multiplied by .0150 to equal \$50.63, total price adjustment.
- \$3,375.00 minus \$50.63 to equal \$3,324.37, total adjusted price.
- 3.4.2 Unacceptable Material: Per visual observation, if salt is deemed unsatisfactory or not compliant with ASTM E534, at the discretion of the Agency/WVDOH District Manager or designee, the Agency reserves the right to accept or reject delivery and exercise the price adjustment formula.

If the supplier disputes the test results, they must file a complaint with the Agency/WVDOH Operations Division Director for review and final decision within seven (7) business days of notification of the test results to the supplier.

- 3.4.2.1 Delivery of salt deemed by the Agency as unacceptable such as large unusable chunks, loads mixed with foreign material (i.e., dark colored contaminants, charcoal, cinders, or debris) will be rejected immediately. Salt that does not meet the above specified conditions at the time of the delivery will not be accepted by the Agency. Any rejected deliveries will be removed by the Vendor at no cost to the Agency.
- 3.4.3 Emergency Requests: Emergency requests, as ordered by a WVDOH District Engineer or their designee, shall be initiated within forty-eight (48) hours from when the Delivery Order is received by Vendor. The determination of an emergency request will be in accordance with Section 2.9 of this Solicitation and shall be prominently noted on Delivery Order.

- 4. PANDEMIC-RESPONSE SAFETY PROTOCOLS: In addition to the Vendor's established safety protocols and the WVDOH's established safety protocols outlined in the Standard Specs, as amended, the Vendor and the Vendor's staff shall adhere to all WVDOH's pandemic-response protocols while present at the WVDOH jobsite. Vendors may obtain the WVDOH's pandemic-response protocols by contacting the WVDOH District Engineer or their designee.
- 5. CONTRACT AWARD: The Contract is intended to provide Agencies with a purchase price per ton on Roadway Salt. A Contract shall be awarded to all qualified Vendors who provide Contract Items that meet the required specifications of this Contract.
 - placing Pages (ATT A and ATT B): Vendor shall complete the Pricing Pages by placing a bid for any or all locations. Vendor shall NOT add, delete, or modify spreadsheet column and row headers, descriptions, units of measure, or estimated quantities on Pricing Pages by Delivery, ATT A, and Pricing Pages by Pick Up, ATT B. Making any such changes to the format or failure to complete ATT A and ATT B in their entirety may result in the disqualification of Vendor's bid. Vendor should type or electronically enter the information into the Pricing Pages spreadsheet to prevent errors in the evaluation. In most cases, the Vendor can request an electronic copy of the Pricing Pages spreadsheet for bid purposes by sending an email request to the following: John.W.Estep@wv.gov.
 - 5.1.1 Pricing Pages by Delivery (ATT A): Vendor shall provide its pricing for the delivery of roadway salt, FOB, to Agency storage locations as listed on the ATT A spreadsheet.
 - 5.1.2 Pricing Pages by Agency Pick Up (ATT B): Vendor shall complete ATT B by providing its pricing for the pick up of roadway salt by an Agency from a Vendor's storage location, as listed on ATT B. Vendor pricing shall include loading of WVDOH Agency vehicles by Vendor.
 - 5.1.3 Vendor entries of bid prices or other notations made in wvOASIS Commodity Line Descriptions will not be considered for bid evaluation or award. Submitting Pricing Pages other than those provided with this solicitation, as described in Section 5.1, shall result in the disqualification of all Contract Items bid on the erroneous Pricing Pages.
 - 5.2 Contract Award Transition: Upon award of this contract, the WVDOH Operations Division will announce the effective date of use of this contract to the Districts and the Vendors, whether it is by the effective date, the completed and encumbered date, or an established date by the WVDOH. Upon the announced effective date of use, any Delivery Order issued prior to the award of the contract shall remain in effect and should not be cancelled until that Delivery Order is filled; however, after ten (10) working days of the Districts and Vendors notice, any

Delivery Order that has not been completely filled by the Vendors shall NOT be completed, and a cancellation notice will be sent to that Vendor from the issuing District for cancellation of the balance of that Delivery Order only. No Delivery Orders from prior contracts should be held open by the Districts or Vendors longer than ten (10) working days after the effective date of use is announced for the new contract.

5.3 Cooperative Contracting: The purchase prices on all Contract Items in this contract, available for the WVDOH and the West Virginia Parkways Authority, shall be adoptable for other public agencies upon their request. Agencies under the authority of the West Virginia Purchasing Division must receive prior approval by the Purchasing Director.

6. ORDERING AND PAYMENT:

- 6.1 Ordering: Vendor shall accept orders through wvOASIS, regular mail, facsimile, email, or any other written forms of communication. Vendor shall maintain and keep current its phone numbers, fax number, email address, locations, and ordering/billing/ payment addresses with WVDOH and in wvOASIS. Vendor may, but is not required to, accept online orders through a secure internet ordering portal/website. If Vendor has the ability to accept online orders, it must include in its response a brief description of how Agencies may utilize the online ordering system. Vendor shall ensure that its online ordering system is properly secured prior to processing Agency orders online.
- 6.2 Delivery Order: WVDOH will initiate a Delivery Order by identifying locations of need. The Delivery Order will be generated by a WVDOH Engineer or their designee and should be completed on a WV-39 Blanket Release Order and an ADO entered into wvOASIS. The order should detail the amount of Roadway Salt needed, the location of need, and a due date for delivery, which shall become the agreed upon delivery date. Emergencies shall be prominently noted on the Delivery Order. Once complete, the Delivery Orders shall be sent to Vendor via fax, email, or postal mail. Any verbal communications to initiate or make modifications to Delivery Order under this contract are not acceptable as a Delivery Order.
- 6.3 Payment: Upon completion of the work indicated on the Delivery Order, Vendor shall accept payment in accordance with the payment procedures of the State of West Virginia. The State of West Virginia currently utilizes a Purchasing Card program, administered under contract by a banking institution, as well as Electronic Funds Transfer as methods to process payment for goods and services. The Vendor shall accept the State of West Virginia's Purchasing Card and Electronic Funds Transfer for payment of orders under this Contract. Electronic Funds Transfer for payment is available through the WV State Auditor's Office. The Vendor may visit

the WV State Auditor's website (wvsao.gov) for all necessary forms and instructions. Payment method may be dictated at WVDOH's discretion.

7. PROJECT ACCEPTANCE, DELIVERY AND RETURN:

7.1 Project Acceptance and Written Verification of Receipt: Upon receipt of a WVDOH Delivery Order, the Vendor shall advise the WVDOH in writing within five (5) calendar days of their acceptance or refusal of the Delivery Order. As verification of receipt, Vendor must provide written acknowledgement of any Delivery Orders and any Revisions/Modifications thereto sent by WVDOH. Failure to provide the WVDOH with written acknowledgement of any Delivery Orders/Revisions within five (5) days of the Order being sent shall be considered refusal of the Delivery Order. In the event of refusal, the WVDOH at its own discretion shall cancel the Delivery Order and may seek to obtain the goods or services from the next low bid Vendor or proceed with an Emergency Purchase from the open market.

Upon Vendor's acceptance, WVDOH should submit an ADO in wvOASIS and provide the Vendor with the ADO number for their reference.

7.2 Delivery: Vendor shall deliver all orders in accordance with the above schedule and shall not hold orders until a minimum delivery quantity is met. Vendor is not authorized to deliver, nor is the Agency authorized to receive materials prior to the issuance of a Delivery Order. As directed on its Delivery Order, Vendor shall commence and fulfill orders to the Agency location(s) in increments and within the time frame specified on its Delivery Order.

In the event that the Agency sends Vendor a "bulk seasonal order" whereby the Agency is anticipating multiple, successive deliveries, the Vendor shall commence deliveries spread out over the date-span specified by the Agency and make successive deliveries until the Order is filled. Vendor shall communicate in writing to the ordering Agency, any issues or potential disruption in delivery(s). The Agency shall have the option of accepting or refusing any alternative delivery schedule proposed by the Vendor. Any delayed or failed delivery portion shall be subject to failed delivery damages, as defined in Section 7.9

7.2.1 Guaranteed Delivery: It shall be further noted that the Vendor is not responsible for and shall not be penalized for delays in its delivery when caused by factors or events outside Vendor's control, including but not limited to acts or omissions of the Agency or third parties, acts of civil or military authority, civil disturbance, war, terrorism, pandemics, explosions, fire, floods, tornadoes, or other natural disasters or acts of God.

- 7.2.1.1 Delivery Order Schedule: For Delivery Orders issued to the awarded Vendor from the contract's effective date, <u>delivery shall commence immediately and be due within ten (10) calendar days</u> of the Delivery Order date, unless otherwise directed by the Agency. The first day will be considered 12:01 AM, the morning (business day) following the Delivery Order date. An initial delivery must be made by the established initial delivery date and the remainder of the order <u>filled with successive loads as specified by the Agency on the Delivery Order</u>.
- 7.2.1.2 Emergency Delivery Orders Schedule: Per Section 2.9, emergency situations stemming from inclement weather requiring the immediate delivery of salt, upon the Vendor's receipt of the Agency's Delivery Order denoting "Emergency," the Order shall be treated as a priority and fulfilled by the Vendor without delay and as indicated by the Agency on the Delivery Order. Emergency Deliveries declared as such the Agency District Engineer/designee, shall be paid at a rate of 105% of the Vendor's awarded price
- 7.3 Agency Acceptance Guarantee and Vendor Delivery Guarantee: The Agency guarantees acceptance of 80% of estimated quantity awarded statewide to the Vendor. The Vendor shall guarantee delivery of up to 120% of the statewide estimated quantity awarded. All Agency Delivery Orders shall be issued, and all Vendor deliveries shall be completed prior to the contract's expiration and as identified on the Agency's Delivery Orders. To clarify, the "guarantee" shall apply to statewide (all counties) total tonnage awarded to the Vendor, and not the individual totals per District, County, and/or Agency Delivery/Storage Location Site.
 - *EXAMPLE: If statewide total (of all counties in all Districts, all Agencies) awarded to the Vendor is 43,000 tons, the guaranteed Total shall be calculated as follows:
 - · 43,000 multiplied by 80% = Agency's Guaranteed Acceptance of 34,400 tons
 - · 43,000 multiplied by 120% = Vendor's Guaranteed Delivery of 51,600 tons
- 7.4 Orders Beyond 120% of Vendor's Statewide Guaranteed Delivery: Contingent upon weather conditions, the Agency reserves the right to purchase additional quantities of salt above 120% of the Vendor's awarded statewide guaranteed delivery total.
 - 7.4.1 Pricing for Orders Beyond 120%: In the event that the Agency wishes to purchase Salt in excess of the 120% of the Vendor's statewide guaranteed delivery total, the Agency shall pay the Vendor at a rate of 110% of the Vendor's bid price for purchases and the Vendor shall guarantee completed

delivery of such orders no later than 10 calendar days of the Delivery Order date, unless otherwise specified by the Agency on its Delivery Order.

- 7.5 Shipment Adjustments: The Agency cannot determine nor predict the amount of snow and/or ice in one area compared to another area. As dictated by weather conditions and/or the needs of the Agency, the Agency reserves the right to direct the Vendor to alter the shipment totals between storage locations despite how they were estimated and awarded to the Vendor.
- 7.6 Vendor's to Report Agency Orders At the point that the Vendor determines that it has received orders amounting to 80% of the estimated statewide totals, the Vendor shall notify the WVDOH Operations Division via email at DOHOperationsProcurement@wv.gov and provide reports to the Agency with the Vendor's quantities ordered and delivered statewide, broken down by ordering location (Section 9.3 also applies).
- 7.7 Vendor Shall Not Place Shipments On Hold: In the event that total ordered from a particular District, location, or Agency exceeds 120% of the estimated total for a given District or any singular location, the Vendor shall not place any Delivery Orders on hold nor suspend any shipments if the entire total ordered has not reached 120% of the Vendors statewide awarded total, as per Section 7.4.
- 7.8 Original Delivery Tickets for each delivered load to the Agency delivery/ storage location sites shall be provided with each delivery, and must be signed and retained by an Agency representative at the delivery/storage location site.
- 7.9 Failed Delivery and Risk of Loss: The Agency placing the order under this Contract must be notified in writing if orders will be delayed for any reason. Any delay in delivery that could cause harm to an Agency will be grounds for cancellation of the delayed order, and/or obtaining the items ordered from a third party. The Agency placing the Delivery Order under this Contract must be notified in writing by the Vendor no later than 36 hours prior to the date from the Agency's Delivery Order. Any failure to notify, acknowledge receipt of WVDOH's written Delivery Orders/ Revisions resulting in delivery delay, or failure to start or complete the project per the WVDOH scheduled due dates may be determined by the WVDOH at its sole discretion as harmful to the Agency and as such, shall result in WVDOH's cancellation of the Delivery Order and application of Liquidated Damages.

Any Agency seeking to obtain items from a third party under this provision must first obtain approval of the Purchasing Division.

7.9.1 Liquidated Damages: If the vendor's delivery of goods/services or corrections thereto exceeds the Delivery Order completion due date or timeframe, the Vendor shall agree that no extension of contract time will be

granted unless Liquidated Damages are applied by the WVDOH in the form of an off-set reduction to the total amount of the Vendor's final invoice. The WVDOH shall calculate Liquidated Damages per project beginning on day one (1) after the WVDOH's specified Delivery Order due date and in accordance with this Section, the Contract's Terms and Conditions, Standard Specs Section 108.7, and the following Standard Specs Section Table 108.7.1 - Schedule of Liquidated Damages, as amended:

Table 108.7.1 Schedule of Liquidated Damages

Original Cor	Daily Charges Per	
For More Than To and Including		Calendar Day
\$0	\$500,000	\$300
\$500,000	\$2,000,000	\$600
\$2,000,000	\$10,000,000	\$1,500
\$10,000,000	\$25,000,000	\$3,000
\$25,000,000		\$4,000

- 7.10 Return of Unacceptable Items: The decision of the WVDOH District Engineer or their designee regarding materials, workmanship, quality etc., shall be final per the Standard Specs Section 105.1, as amended. If the Agency deems the Contract Items to be unacceptable, the Contract Items shall be returned to Vendor at Vendor's expense and with no restocking charge. Vendor shall either make arrangements for the return within five (5) days of being notified that Items are unacceptable, or permit the Agency to arrange for the return and reimburse Agency for delivery expenses. All returns of unacceptable items shall be F.O.B. the Agency's location. The returned product shall either be replaced, or the Agency shall receive a full credit or refund for the purchase price, at the Agency's discretion.
- 7.11 Return Due to Agency Error: Items ordered in error by the Agency will be returned for credit within 30 days of receipt, F.O.B. Vendor's location. Vendor shall not charge a restocking fee if returned products are in a resalable condition. Items shall be deemed to be in a resalable condition if they are unused and in the original packaging. Any restocking fee for items not in a resalable condition shall be the lower of the Vendor's customary restocking fee or 5% of the total invoiced value of the returned items.

8. VENDOR DEFAULT:

- 8.1 The following shall be considered a vendor default under this Contract.
 - **8.1.1** Failure to provide Contract Items in accordance with the requirements contained herein.
 - **8.1.2** Failure to comply with other specifications and requirements contained herein.
 - **8.1.3** Failure to comply with any laws, rules, and ordinances applicable to the Contract Services provided under this Contract.
 - 8.1.4 Failure to remedy deficient performance upon request.
- 8.2 The following remedies shall be available to Agency upon default.
 - **8.2.1** Immediate cancellation of the Contract.
 - **8.2.2** Immediate cancellation of one or more release orders issued under this Contract.
 - **8.2.3** Any other remedies available in law or equity.

9. MISCELLANEOUS:

- 9.1 No Substitutions: Vendor shall supply only Contract Items submitted in response to the Solicitation unless a contract modification is approved in accordance with the provisions contained in this Contract.
- 9.2 Vendor Supply: Vendor must carry sufficient inventory of the Contract Items being offered to fulfill its obligations under this Contract. By signing its bid, Vendor certifies that it can supply the Contract Items contained in its bid response.
- 9.3 Reports: Vendor shall provide the Agency with quarterly reports, annual summaries, and/or monthly reports as requested by the Agency and/or the West Virginia Purchasing Division showing quantities, total dollar value of the Contract Items purchased, ordered, shipped & invoiced with dates in spreadsheet format as defined by the Agency. Failure to supply such reports may be grounds for cancellation of this Contract.

9.4 Contract Manager: During its performance of this Contract, Vendor must designate and maintain a primary Contract Manager responsible for overseeing Vendor's responsibilities under this Contract. The Contract Manager must be available during normal business hours to address any customer service or other issues related to this Contract. Vendor should list its Contract Manager and his or her contact information below.

Contract Manager: Harrison Green
Telephone Number: 800-323-1641
Fax Number: 913-338-7945
Email Address: highwaygroup@compassminerals.com

Vendor shall inform the Agency in writing of any changes to the information provided above within ten (10) calendar days of such changes. Failure to comply may be grounds for cancellation of this contract.



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

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Standard Specification for Sodium Chloride¹

This standard is issued under the fixed designation D 632; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

1. Scope

- 1.1 This specification covers sodium chloride intended for use as a deicer and for road construction or maintenance purposes.
- 1.2 The values stated as SI units are to be regarded as the standard.
- 1.3 For purposes of determining conformance to this specification, values for chemical analysis shall be rounded to the nearest 0.1 %, and values for grading shall be rounded to the nearest 1 %, in accordance with the rounding method in Practice E 29.
- 1.4 The text of this specification references notes and footnotes that provide explanatory material. These notes and footnotes shall not be considered as requirements of the specification.
- 1.5 The following precautionary caveat pertains only to the test method in Annex A1, of this specification: This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

2. Referenced Documents

- 2.1 ASTM Standards:
- C 136 Test Method for Sieve Analysis of Fine and Coarse Aggregates²
- C 670 Practice for Preparing Precision and Bias Statements for Test Methods for Construction Materials²
- D 1193 Specification for Reagent Water³
- E 29 Practice for Using Significant Digits in Test Data to Determine Conformance with Specifications⁴
- E 287 Specification for Laboratory Glass Graduated Burets⁵ E 288 Specification for Laboratory Glass Volumetric Flasks⁵

¹ This specification is under the jurisdiction of ASTM Committee D04 on Road and Paving Materials and is the direct responsibility of Subcommittee D04,31 on Calcium and Sodium Chlorides and Other Deicing Materials.

Current edition approved June 10, 2001. Published August 2001. Originally published as D 632 - 41. Last previous edition D 632 - 00.

- ² Annual Book of ASTM Standards, Vol 04.02.
- 3 Annual Book of ASTM Standards, Vol 11.01.
- ⁴ Annual Book of ASTM Standards, Vol 14.02.
- ⁵ Annual Book of ASTM Standards, Vol 14.04.

E 534 Test Methods for Chemical Analysis of Sodium Chloride⁶

3. Classification

- 3.1 This specification covers sodium chloride obtained from natural deposits (rock salt) or produced by man (evaporated, solar, other) and recognizes two types and two grades as follows:
- 3.1.1 Type I—Used primarily as a pavement deicer or in aggregate stabilization.
 - 3.1.1.1 Grade 1—Standard grading (Note 1).
 - 3.1.1.2 Grade 2—Special grading (Note 1).
- 3.1.2 Type II—Used in aggregate stabilization or for purposes other than deicing.

Note 1—Grade 1 provides a particle grading for general application, and has been found by latest research to be most effective for ice control and skid resistance under most conditions. Grade 2 is the grading typical of salt produced in the Western United States and is available in states of the Rocky Mountains Region and west, which may be preferred by purchasers in that area.

4. Chemical Requirements

4.1 The sodium chloride shall conform to the following requirement for chemical composition, except for the tolerance stated in 6.1 and 6.2:

Sodium chloride (NaCl), min, %

95.0

5. Physical Requirements

5.1 Grading:

5.1.1 Type I—The grading of Type I sodium chloride, when tested by means of laboratory sieves conforming to Specification E 11, shall conform to the following requirements for particle size distribution, except for the tolerance stated in 6.1 and 6.1.1:

	Mass % P	assing
Sieve Size	Grade 1	Grade 2
19.0 mm (¾ in.)	***	100
12.5 mm (1/2 in.)	100	25
9.5 mm (3/s in.)	95 to 100	44.0
4.75 mm (No. 4)	20 to 90	20 to 100
2,36 mm (No. 8)	10 to 60	10 to 60
600 µm (No. 30)	0 to 15	0 to 15

5.1.2 *Type II*—The grading of Type II sodium chloride shall conform to the grading requirements imposed or permitted by the purchaser under conditions of the intended use.

⁶ Annual Book of ASTM Standards, Vol 15.05.



6. Permissible Variations

- 6.1 In the case of sodium chloride sampled after delivery to the purchaser, tolerances from the foregoing specified values shall be allowed as follows:
- 6.1.1 Grading—5 percentage points on the maximum value for the range for each sieve size, except the 12.5 mm (½ in.) and 9.5 mm (¾ in.) for Grade 1 and 19.0 mm (¾ in.) for Grade 2
 - 6.1.2 Chemical Composition—0.5 percentage point.

7. Condition

7.1 The sodium chloride shall arrive at the purchaser's delivery point in a free-flowing and usable condition.

8. Sampling

8.1 Not less than three sample increments shall be selected at random from the lot (Note 2). Each increment shall be obtained by scraping aside the top layer of material to a depth of at least 25 mm (1 in.) and taking a 500-g (approximately 1-lb) quantity of sodium chloride to a depth of at least 150 mm (6 in.). Sampling shall be done by means of a sampling thief or other method that will ensure a representative cross section of the material. The sample increments shall be thoroughly mixed to constitute a composite sample representative of the lot.

Note 2—A lot may be an amount agreed upon between purchaser and supplier at the time of purchase.

9. Test Methods

9.1 Chemical Analysis—Test for compliance with the requirements for chemical composition in accordance with the following methods:

- 9.1.1 Routine Control—Use of the "Rapid Method" in Annex A1 is permitted for routine control and approval.
- 9.1.2 Referee Testing—In case of controversy, determine the chemical composition of the sample, using the current version of Test Method E 534.
 - 9.2 Grading shall be determined by Test Method C 136.

10. Inspection

10.1 The purchaser or his representative shall be provided free entry and necessary facilities at the production plant or storage area if he elects to sample sodium chloride at the source.

11. Rejection and Rehearing

- 11.1 The sodium chloride shall be subject to rejection if it fails to conform to any of the requirements of this specification.
- 11.2 In the case of failure to meet the requirements on the basis of an initial sample of a lot represented, two additional samples shall be taken from the lot and tested. If both additional samples meet the requirements, the lot shall be accepted.

12. Packaging and Marking

12.1 The sodium chloride shall be delivered in bags or other containers acceptable to the purchaser, or in bulk lots. The name of the producer and the net weight shall be legibly marked on each bag or container, or in the case of bulk lots, on the shipping or delivery report.

13. Keywords

13.1 salt; snow and ice removal; sodium chloride; stabilization; winter maintenance

ANNEX

(Mandatory Information)

A1. RAPID METHOD OF ANALYSIS FOR SODIUM CHLORIDE

A1.1 Scope

A1.1.1 This annex covers a rapid method for chemical analysis of sodium chloride.

A1.2 Significance and Use

- A1.2.1 The procedure for chemical analysis in this annex determines the total amount of chlorides present in the sample and expresses that value as sodium chloride.
- A1.2.2 This rapid method of analysis does not distinguish between sodium chloride and other evaporite chloride compounds with ice-melting capabilities. Typical rock salt and solar salt sometimes contains small amounts of CaCl₂, MgCl₂, and KCl, depending on the source of the material. When this rapid method is used on continuing shipments from a known source, it will provide a fast, essentially accurate determination of the sodium chloride content of the material furnished. Thus, the need for testing by the referee method, Test Method E 534, is reduced.

A1.3 Apparatus

- A1.3.1 Glassware—Standard weighing bottles, volumetric flasks (conforming to Specification E 288, Class B, or better), and burets (conforming to Specification E 287, Class B, or better).
- A1.3.2 Balance, having a capacity of at least 20 g, accurate and readable to 0.01 g.

A1.4 Reagents

A1.4.1 Purity of Reagents—Reagent grade chemicals shall be used in all tests. Unless otherwise indicated, it is intended that all reagents conform to the specifications of the Committee on Analytical Reagents of the American Chemical Society

where such specifications are available. Other grades may be used, provided it is first ascertained that the reagent is of sufficiently high purity to permit its use without lessening the accuracy of the determination.

A1.4.2 Purity of Water—Unless otherwise indicated, references to water shall be understood to mean reagent water as defined by Types I-IV of Specification D 1193.

A1.4.3 Calcium Carbonate (CaCO₃)—low chloride, powder.

A1.4.4 Nitric Acid (HNO₃), dilute (HNO₃:H₂O, 1:4 by volume).

A1.4.5 Potassium Chromate (K_2CrO_4) Solution—(50 g K_2CrO_4/L).

A1.4.6 Silver Nitrate Solution-0.05 N AgNO3.

A1.4.7 Sodium Chloride (NaCl)

A1.5 Procedure

A1.5.1 Thoroughly mix the composite sample obtained under 8.1, and reduce by quartering or by means of a sample splitter to approximately 500 g. Pulverize the reduced sample to pass a 300-µm (No. 50) sieve.

A1.5.2 Standardization—Standardize the silver nitrate (AgNO₃) solution daily, using 10 g of reagent grade sodium chloride (NaCl) following the applicable procedure in A1.5.3.

A1.5.3 From the pulverized sodium chloride, obtain a test sample with a mass of 10.00 ± 0.01 g and place in a beaker with 250-mL distilled water. Add 10 mL of the diluted nitric acid solution (HNO₃, 1 + 4 by volume) and stir for 20 min at room temperature to put the salt in solution. Transfer the solution, including any insoluble material, to a 2-L volumetric flask, dilute to the mark with distilled water, and mix. With a pipet, draw off 25 mL of the solution and place in a white porcelain casserole. Add 0.5 g of calcium carbonate (CaCO₃) to neutralize the excess HNO₃, and adjust the pH to approximately 7. Add 3 mL of the potassium chromate (K₂CrO₄) solution as an indicator and titrate dropwise with the silver nitrate (AgNO₃) solution until a faint but distinct change in color occurs—a persistent yellowish brown endpoint (see Note A1.1), comparable to standardization. Estimate the titer from the buret to the second decimal place.

Note A1.1—The stirred sample solution, after addition of potassium chromate (K_2CrO_4) and calcium carbonate ($CaCO_3$), is a creamy lemonyellow color. Addition of the silver nitrate (AgNO₃) solution produces silver chloride, which begins to agglomerate as the titration progresses, and the lemon-yellow color will begin to have whitish, opaque swirls of silver chloride. As the titration proceeds, the red color formed by addition of each drop begins to disappear more slowly. Continue the addition dropwise until a faint but distinct change in color occurs and the yellow-brown to faint reddish-brown color persists. The first stable presence of red silver chromate is the endpoint. If the endpoint is overstepped, a deep reddish-brown color occurs

A1.6 Calculate—Calculate the total chlorides expressed as percent NaCl as follows:

$$P = [(A/B) \times (C/D)] \times 100$$
 (A1.1)

where:

A = reagent grade NaCl used, g,

B = 0.05 N AgNO₃ solution required to titrate the reagent grade NaCl, mL,

C = 0.05 N AgNO₃ solution required to titrate the sample being tested, mL,

D = test sampling mass, g, and

P = total chlorides, expressed as sodium chloride, in the sample being tested, %.

A1.6.1 If moisture is apparent in the sample, dry a duplicate 10-g sample of the pulverized salt at 105°C and correct the mass of the sample accordingly.

A1.7 Precision and Bias

A1.7.1 Precision⁸—An interlaboratory study was conducted and an analysis was made that included three materials ranging from approximately 92 to 99 % NaCl. Ten laboratories were included in the study.

A1.7.2 Single-Operator Precision (NaCl composition 95.0 % and greater)—The single-operator standard deviation of a single test result for average NaCl composition 95.0 % and greater has been found to be 0.248.9 Therefore, results of two properly conducted tests by the same operator on the same material with the same equipment and under the same conditions should not differ by more than 0.70 %.9

A1.7.3 Multilaboratory Precision (NaCl composition 95.0 % and greater)—The multilaboratory standard deviation of a single test result for average NaCl composition greater than 95.0 % has been found to be 0.633 %. Therefore, results of two properly conducted tests in different laboratories on the same material should not differ by more than 1.79 %.

A1.7.4 Single Operator Precision (NaCl composition less than 95.0 % and greater than 90.0 %)—The single-operator coefficient of variation of a single test result for average NaCl composition less than 95.0 % and greater than 90.0 % has been found to be 0.427 %. Therefore, results of two properly conducted tests by the same operator on the same material with the same equipment and under the same conditions should not differ by more than 1.21 %.

A1.7.5 Multilaboratory Precision (NaCl composition less than 95.0 % and greater than 90.0 %)—The multilaboratory standard deviation of a single test result for average NaCl composition less than 95.0 % and greater than 90.0 % has been found to be 0.711 %. Therefore, results of two properly conducted tests in different laboratories on the same material should not differ by more than 2.00 %.

A1.7.6 Bias—No justifiable statement can be made on the bias of this test method because the data are not available.

⁷ Reagent Chemicals, American Chemical Society Specifications, American Chemical Society, Washington, DC. For suggestions on the testing of reagents not listed by the American Chemical Society, see Analar Standards for Laboratory Chemicals, BDH Ltd., Poole, Dorset, U.K., and the United States Pharmacopeia and National Formulary, U.S. Pharmacopeial Convention, Inc., (USPC), Rockville, MD.

⁸ Supporting data have been filed at ASTM Headquarters. Request RR:D04-1016.

⁹ These numbers represent, respectively, the (1s %) and (d2s %) limits, as described in Practice C 670.

∰ D 632

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Standard Test Methods for Chemical Analysis of Sodium Chloride¹

This standard is issued under the fixed designation E534; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

1. Scope*

- 1.1 These test methods cover the chemical analyses usually required for sodium chloride.
- 1.2 The analytical procedures appear in the following sections:

	Section
Sample Preparation	5 to 9
Moisture	10 to 16
Water Insolubles	17 to 24
Calcium and Magnesium	25 to 31
Sulfate	32 to 38
Reporting of Analyses	39 to 41

- 1.3 The values stated in SI units are to be regarded as standard. No other units of measurement are included in this standard.
- 1.4 This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.
- 1.5 Review the current material safety data sheets (MSDS) for detailed information concerning toxicity, first-aid procedures, handling, and safety precautions.

2. Referenced Documents

2.1 ASTM Standards:2

D1193 Specification for Reagent Water

E180 Practice for Determining the Precision of ASTM Methods for Analysis and Testing of Industrial and Specialty Chemicals (Withdrawn 2009)³

E200 Practice for Preparation, Standardization, and Storage of Standard and Reagent Solutions for Chemical Analysis

3. Significance and Use

3.1 Sodium chloride occurs in nature. It is a necessary article of diet as well as the source for production of many sodium compounds and chlorine. The methods listed in 1.2 provide procedures for analyzing sodium chloride to determine if it is suitable for its intended use.

4. Reagents

- 4.1 Purity of Reagents—Unless otherwise indicated, it is intended that all reagents should conform to the specifications of the Committee on Analytical Reagents of the American Chemical Society, where such specifications are available.⁴
- 4.2 Purity of Water—Unless otherwise indicated, references to water shall be understood to mean Type II or III reagent water conforming to Specification D1193.

SAMPLE PREPARATION

5. Scope

5.1 This test method covers preparation of a sample that will be as representative as possible of the entire bulk quantity. The results of any analysis pertain only to the sample used.

6. Apparatus

- 6.1 Coarse Grinder.
- 6.2 High-Speed Blender.
- 6.3 Oven.
- 6.4 Riffle Sampler.
- 6.5 Scale.

7. Reagents

7.1 Hydrochloric Acid, Standard (1 meq/mL HCl)—Prepare and standardize in accordance with Practice E200.

¹ These test methods are under the jurisdiction of ASTM Committee E15 on Industrial and Specialty Chemicalsand are under the direct responsibility of Subcommittee E15.02 on Product Standards.

Current edition approved June 1, 2013. Published September 2013. Originally approved in 1975. Last previous edition approved in 2008 as E534 – 08. DOI: 10.1520/E0534-13.

² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For Annual Book of ASTM Standards volume information, refer to the standard's Document Summary page on the ASTM website.

³ The last approved version of this historical standard is referenced on www.astm.org.

⁴ Reagent Chemicals, American Chemical Society Specifications, American Chemical Society, Washington, DC. For suggestions on the testing of reagents not listed by the American Chemical Society, see Analar Standards for Laboratory Chemicals, BDH Ltd., Poolc, Dorset, U.K., and the United States Pharmacopeia and National Formulary, U.S. Pharmacopeial Convention, Inc. (USPC), Rockville, MD.

TABLE 1 Precision for Moisture Method

Repeatability			La	Laboratory Precision			Reproducibility		
Level, %	Standard Deviation, %	Degrees of Freedom	95 % Limit, %	Standard Deviation, %	Degrees of Freedom	95 % Limit, %	Standard Deviation, %	Degrees of Freedom	95 % Limit, %
0.003 to 0.004	0.0014	36	0.004	0.00223	18	0.006	0.00322	8	0.009
0.025 to 0.035	0.0071	60	0.02	0.00428	30	0.01	0.0138	9	0.04

8. Rock and Solar Salt Stock Solutions

- 8.1 Mix and split sample to 500 g, using the riffle sampler.
- 8.2 If sample appears wet, dry at 110°C for 2 h.
- 8.3 Grind the sample to -8 mesh in the coarse grinder.
- 8.4 Mix ground sample well and weigh out a 25.0-g representative portion for rock salt or 50.0 g for solar salt.
- 8.5 Place 200 mL of water in the high-speed blender and start at low speed.
- 8.6 Slowly add the salt sample to the high-speed blender and blend for 5 min,
 - 8.7 Test for water insolubles as described in Sections 17-24.
- 8.8 Save filtrate from water insolubles test and dilute in a volumetric flask to 1 L with water as a stock solution for subsequent analyses.

9. Evaporated and Purified Salt Stock Solutions

- 9.1 Mix and split the sample to 100 g for evaporated salt, or 200 g for purified evaporated salt.
 - 9.2 Transfer to a 1-L volumetric flask.
 - 9.3 Add 800 mL of water and allow the salt to dissolve.
- 9.4 Add 2 mL of concentrated HCl to dissolve any water insoluble calcium salts, particularly calcium carbonate.
- 9.5 Dilute to volume with water and use as a stock solution for subsequent analyses.

MOISTURE

10. Scope

10.1 This test method determines free moisture in the salt over a concentration range from 0.00 to 0.04 %. It does not determine occluded moisture trapped within the salt crystals. The procedure is based on weight loss after a sample is heated to volatize moisture.

11. Apparatus

- 11.1 Analytical Balance.
- 11.2 Desiccator.
- 11.3 Oven.

12. Procedure, Rock and Solar Salt

- 12.1 Weigh 100 g of salt to the nearest 0.05 g into a previously dried and tared moisture dish.
 - 12.2 Dry at 110°C for 2 h.
 - 12.3 Cool in a desiccator and weigh.

13. Procedure, Evaporated and Purified Evaporated Salt

- 13.1 Weigh 20 g of salt to the nearest 0.001 g into a previously dried and weighed glass weighing bottle and cover.
 - 13.2 Dry at 110°C for 2 h.
 - 13.3 Cool in a desiccator, replace cover, and weigh.

14. Calculation

14.1 Calculate the percentage of moisture as follows:

moisture, mass (m/m) % =
$$\frac{A}{R} \times 100$$
 (1)

where:

A = loss of mass on drying, g, and

B = mass of sample, g.

15. Report

15.1 Report the moisture content to the nearest 0.001 %.

16. Precision and Bias

- 16.1 The following criteria should be used in judging the acceptability of results (Note 1):
- 16.1.1 Repeatability (Single Analyst)—The standard deviation for a single determination has been estimated to be the percent absolute values shown in Table 1 at the indicated degrees of freedom. The 95 % limit for the difference between two such runs is the percent absolute values in Table 1.
- 16.1.2 Laboratory precision (Within-Laboratory, Between-Days Variability)—The standard deviation of results (each the average of duplicates), obtained by the same analyst on different days, has been estimated to be the percent absolute values shown in Table 1 at the indicated degrees of freedom. The 95 % limit for the difference between two such averages is the percent absolute values in Table 1.
- 16.1.3 Reproducibility (Multilaboratory)—The standard deviation of results (each the average of duplicates), obtained by analysts in different laboratories, has been estimated to be percent absolute values shown in Table 1. The 95 % limit for the difference between two such averages is the percent absolute values in Table 1.

Note I—The preceding precision statements are based on an interlaboratory study performed around 1975 on five samples of sodium chloride containing covering the ranges of moisture in Table 1. One analyst in each of ten laboratories performed duplicate determinations and repeated them on a second day.⁵ Practice E180 was used in developing these precision estimates.

Supporting data have been filed at ASTM International Headquarters and may be obtained by requesting Research Report RR:E15-1052.

TABLE 2 Precision for Water Insolubles Method

		Repeatability			Reproducibility	
Level, %	Coefficient of Variation, % relative	Degrees of	95 % Limit, % relative	Coefficient of Variation,	Degrees of	95 % Limit, % relative
	% relative	Freedom		76 Helative	Freedom	
0.002 to 0.005	22.0	20	62	91.7	9	257
0.01 to 0.04	21₊9	18	61	42.2	8	118
0.15 to 0.35	22.0	20	62	20.5	9	57

16.2 Bias—The bias of this test method has not been determined due to the unavailability of suitable reference materials.

WATER INSOLUBLES

17. Scope

17.1 This gravimetric method determines only the amount of insolubles present in sodium chloride which will not dissolve in water.

18. Apparatus

- 18.1 Analytical Balance.
- 18.2 Desiccator.
- 18.3 Magnetic Stirrer with Stirring Bar.
- 18.4 Parabella Filter Funnel Assembly, 61000-mL, or its equivalent with 0.3-µm glass fiber filter disk.

19. Reagents

19.1 Silver Nitrate, Standard Solution, 0.1 meq/mL AgNO₃—Prepare and standardize in accordance with Practice E200.

20. Procedure, Rock and Solar Salts

20.1 Transfer a sample prepared in accordance with 8.1 to 8.6 to a 1-L Erlenmeyer flask, washing out the blender with 100 mL of water. Add 300 mL of water to give a total of 600 mL of water added.

20.2 Stir on a magnetic stirrer for 1 h. Adjust the stirrer speed to give maximum agitation without danger of losing any sample due to splashing. Place a beaker or watch glass over top of the flask while stirring.

20.3 Filter the solution by vacuum through a previously dried (110°C for 1 h) and accurately weighed filter disk using the Parabella funnel. Transfer all insolubles to the paper and wash free of chlorides with water until the filtrate shows no turbidity when tested with 0.1 meq/mL AgNO₃ solution.

20.4 Dilute filtrate and washings to 1 L with water in volumetric flask.

20.5 Dry the filter disk at 110°C for 1 h.

20.6 Cool in a desiccator and weigh the disk on an analytical balance.

20.7 Save the filtrate for subsequent analyses.

21. Procedure, Evaporated and Purified Evaporated Salts

- 21.1 Place a well mixed sample in a 2-L beaker. Use 100-g sample for evaporated or 200 g for purified evaporated salt.
 - 21.2 Add 750 mL of water.
- 21.3 Mix with a mechanical stirrer until solution is complete.
- 21.4 Filter the solution by vacuum through a previously dried (110°C for 1 h) and accurately weighed filter disk using the Parabella funnel. Transfer all insolubles to the paper and wash free of chlorides with water until the filtrate shows no turbidity when tested with 0.1 meq/mL AgNO₃ solution.
 - 21.5 Dry the filter disk at 110°C for 1 h.
- 21.6 Cool in a desiccator and weigh on an analytical balance.
- 21.7 Dilute the filtration and washings to 1 L with water in a volumetric flask and reserve for subsequent analyses.

22. Calculation

22.1 Calculate the percentage of water insolubles as follows:

insolubles, % mass
$$(m/m) = \frac{A}{B} \times 100$$
 (2)

where:

A = increase in mass of filter disk, g, and

B = sample mass, g.

23. Report

23.1 Report the percentage of water insolubles to the nearest percentage shown as follows:

Range, %	Report to, %
0.002 to 0.005	0.001
0.01 to 0.04	0.01
0.15 to 0.35	0.01

24. Precision and Bias

24.1 The following criteria should be used in judging the acceptability of results (Note 2):

24.1.1 Repeatability (Single Analyst)—The coefficient of variation for a single determination has been estimated to be the percent relative values shown in Table 2 at the indicated degrees of freedom. The 95 % limit for the difference between two such runs is percent relative values shown in Table 2.

24.1.2 Laboratory Precision (Within-Laboratory, Between-Days Variability)—The coefficient of variation of results (each the average of duplicates), obtained by the same analyst on different days, has been estimated to be 23.5 % relative at 57

⁶ Fisher Scientific No. 9-730-200 has been found satisfactory.

df. The 95 % limit for the difference between two such averages is 66 % relative.

24.1.3 Reproducibility (Multilaboratory)—The coefficient of variation of results (each the average of duplicates), obtained by analysts in different laboratories, has been estimated to be percent relative values shown in Table 2 at the indicated degrees of freedom. The 95 % limit for the difference between two such averages is percent relative values shown in Table 2.

Note 2—The preceding precision statements are based on an interlaboratory study performed around 1975 on six samples of sodium chloride covering the ranges of water insolubles in Table 2. One analyst in each of ten laboratories performed duplicate determinations and repeated them on a second day.⁵ Practice E180 was used in developing these precision estimates.

24.2 Bias—The bias of this test method has not been determined due to the unavailability of suitable reference materials.

CALCIUM AND MAGNESIUM

25. Scope

25.1 This test method covers the EDTA titrimetric determination of calcium and magnesium and the EDTA titrimetric determination of calcium. The magnesium content is determined by difference.

26. Apparatus

26.1 Magnetic Stirrer with Stirring Bar.

27. Reagents

- 27.1 Eriochrome Black T Indicator Solution, Hydroxy Naphthol Blue, or its equivalent.
- 27.2 Murexide (Ammonium Purpurate) Indicator Solution, or its equivalent.
- 27.3 EDTA Standard Solution (1 mL = 0.400 mg calcium)—Dissolve 4.0 g of disodium dihydrogen ethylene diaminetetraacetate (EDTA) in 1 L of water. Standardize this solution against a standard calcium solution prepared by dissolving 1.000 g of $CaCO_3$ and 2 mL of HCl in water and diluting to 1 L with water in a volumetric flask. Obtain an exact factor for the EDTA solution. This factor is equal to the milligrams of calcium equivalent to 1.00 mL of EDTA solution. See Practice E200.

$$factor = \frac{W}{V}$$
 (3)

where:

W = calcium in aliquot, mg, and

V = EDTA solution required for titration, mL.

- 27.4 Ammonium Chloride-Ammonium Hydroxide Solution—Add 67.5 g of ammonium chloride (NH₄Cl) to 570 mL of ammonium hydroxide (NH₄OH) contained in a 1-L volumetric flask. Reserve this solution for use as described in 27.6 and 27.7.
- 27.5 Potassium Cyanide Solution (50 g/L)—Dissolve 50 g of potassium cyanide (KCN) in water and dilute to 1 L with water. Store in a borosilicate glass bottle. (Warning—Potassium cyanide is extremely poisonous.)

TABLE 3 Stock Solutions (Calcium and Magnesium)

Stock Solution	Aliquot, mL
Kansas rock salt	10
Northern rock salt	25
Southern rock salt	50
Evaporated salt	50
Purified salt	200
Solar salt	100

- 27.6 Magnesium Sulfate Solution (2.5 g/L)—Dissolve 2.5 g of MgSO₄·7H₂O in water and dilute to volume with water in a 1-L volumetric flask. Determine the volume of EDTA solution equivalent to 50 mL of MgSO₄ solution as follows: Pipet 50 mL of MgSO₄ solution into a 400-mL beaker. Add 200 mL of water and 2 mL of NH₄Cl:NH₄OH solution (27.4). Add 1 mL of KCN solution and a sufficient amount of Eriochrome Black T Indicator solution or its equivalent. Titrate the solution with EDTA solution while stirring with a magnetic stirrer to the true blue end point. This gives the volume of EDTA solution equivalent to 50.0 mL of MgSO₄ solution.
- 27.7 Buffer Solution—Pipet 50 mL of MgSO₄ solution into the volumetric flask containing the remaining NH₄Cl·NH₄OH solution (27.4). Add the exact volume of EDTA solution equivalent to 50 mL of the MgSO₄ solution. Dilute to 1 L with water. Store the solution in a polyethylene bottle.
- 27.8 Potassium Hydroxide Solution (600 g/L)—Dissolve 150 g of potassium hydroxide (KOH) in 250 mL of water. Cool and store in a polyethylene bottle.

28. Procedure

- 28.1 Using Table 3 as a guide, pipet two aliquots of stock solution into 400-mL beakers to give a titer between 2 and 10 mL of standard EDTA solution. One aliquot is used to determine total calcium and magnesium and the other for calcium.
- 28.2 Dilute to 200 mL with water, if necessary, and place on magnetic stirrer.
 - 28.3 Total Calcium and Magnesium:
- 28.3.1 Add 5 mL of buffer solution, 1 mL of KCN solution, and a sufficient amount of Eriochrome Black T Indicator Solution or its equivalent.
- 28.3.2 Titrate with standard EDTA solution to a true blue color.
 - 28.3.3 Record the millilitres used as Titration 1 (T_1) .
 - 28.4 Calcium Only:
- 28.4.1 Add 2 mL of KOH solution, 1 mL of KCN solution to the other aliquot in 28.1 and 28.2, and stir for about 2 min to precipitate magnesium.
- 28.4.2 Add a sufficient amount of murexide solution or an equivalent calcium indicator solution.
- 28.4.3 Titrate with standard EDTA solution to a true blue color.
 - 28.4.4 Record the millilitres used as Titration 2 (T_2) .

TABLE 4 Precision for Magnesium Method

		Repeatability		La	boratory Precisi	on		Reproducibility	
Range, %	Standard	Degrees of	95 % Limit, %	Standard	Degrees of	95 % Limit, %	Standard	Degrees of	95 % Limit, %
nanye, 76	Deviation, %	Freedom		Deviation, %	Freedom		Deviation, %	Freedom	
0.001 to	0.00071	56	0.002	0.00066	28	0.002	0.00147	8	0.004
0.003									
0.02 to	0.0035	52	0.010	0.033	26	0.092	0.0042	8	0.012
0.025									

29. Calculation

29.1 Calculate the mass percent of calcium as follows:

Ca, % mass (m/m) =
$$\frac{(T_2) \text{ (factor) (0.1)}}{S}$$
 (4)

where:

 T_2 = EDTA used to titrate calcium only, mL.

S = mass of salt in aliquot, g.

29.1.1 See 27.3 for factor.

29.2 Calculate the mass percent of magnesium as follows:

Mg, % mass
$$(m/m) = \frac{(T_1 - T_2) (factor) (0.6064) (0.1)}{S}$$
 (5)

where:

 T_1 = EDTA used to titrate total calcium and magnesium,

S = mass of salt in aliquot, g.

30. Report

30.1 Report the percentage of calcium to the nearest 0.001 %. Report the percentage of magnesium to the nearest 0.001 %.

31. Precision and Bias

- 31.1 The following criteria should be used in judging the acceptability of calcium results (Note 3):
- 31.1.1 Repeatability (Single Analyst)—The coefficient of variation for a single determination has been estimated to be 3.56 % relative at 100 df. The 95 % limit for the difference between two such runs is 10 % relative.
- 31.1.2 Laboratory Precision (Within-Laboratory, Between-Days Variability)—The coefficient of variation of results (each the average of duplicates), obtained by the same analyst on different days, has been estimated to be 6.34 % relative at 40 df. The 95 % limit for the difference between two such averages is 18 % relative.
- 31.1.3 Reproducibility (Multilaboratory)—The coefficient of variation of results (each the average of duplicates), obtained by analysts in different laboratories, has been estimated to be 9.82 % relative at 7 df. The 95 % limit for the difference between two such averages is 28 % relative.

Note 3—The preceding precision statements are based on an interlaboratory study performed around 1975 on five samples of sodium chloride covering the range from 0.036 to 0.909 % calcium. One analyst in each of eight laboratories performed duplicate determinations and repeated them on a second day.⁵ Practice E180 was used in developing these precision estimates.

- 31.1.4 *Bias*—The bias of this test method has not been determined due to the unavailability of suitable reference materials.
- 31.2 The following criteria should be used in judging the acceptability of magnesium results (Note 4):
- 31.2.1 Repeatability (Single Analyst)—The standard deviation for a single determination has been estimated to be percent absolute values shown in Table 4 at the indicated degrees of freedom. The 95 % limit for the difference between two such runs is the percent absolute values shown in Table 4.
- 31.2.2 Laboratory Precision (Within-Laboratory, Between-Days Variability)—The standard deviation of results (each the average of duplicates), obtained by the same analyst on different days, has been estimated to be the percent absolute values shown in Table 4 at the indicated degrees of freedom. The 95 % limit for the difference between two such averages is the percent absolute values shown in Table 4.
- 31.2.3 Reproducibility (Multilaboratory)—The standard deviation of results (each the average of duplicates), obtained by analysts in different laboratories, has been estimated to be the percent absolute values shown in Table 4 at the indicated degrees of freedom. The 95 % limit for the difference between two such averages is the percent absolute values shown in Table 4.

Note 4—The preceding precision statements are based on an interlaboratory study performed around 1975 on six samples of sodium chloride covering the ranges of magnesium given in Table 4. One analyst in each of ten laboratories performed duplicate determinations and repeated them on a second day.⁵ Practice E180 was used in developing these precision estimates.

31.2.4 *Bias*—The bias of this test method has not been determined due to the unavailability of suitable reference materials.

SULFATE

32. Scope

32.1 This test method covers the gravimetric determination of the sulfate content of sodium chloride.

33. Apparatus

- 33.1 Gooch Asbestos Slurry.
- 33.2 Gooch Filtering Crucible and Holder.
- 33.3 Muffle Furnace.
- 33.4 Oven.

TABLE 5 Stock Solutions (Sulfate)

Stock Solution	Aliquot, mL
Rock salt	40
Evaporated salt	100
Purified evaporated salt	200
Solar salt	100

34. Reagents

- 34.1 Barium Chloride Solution (120 g BaCl₂ 2H₂O/L)— Dissolve 120 g of barium chloride dihydrate in about 750 mL of water, filter, and dilute to 1 L.⁷
- 34.2 Hydrochloric Acid Standard Solution (1 meq/mLHCl)—Prepare and standardize in accordance with Practice E200.
- 34.3 Methyl Orange Indicator Solution (1 g/L)—Dissolve 0.1 g of methyl orange in 100 mL of water and filter if necessary.⁷

35. Procedure

- 35.1 Using Table 5 as a guide, pipet the recommended aliquot of stock solution into a 400-mL beaker.
- 35.2 Dilute to 200 mL, add a few drops of methyl orange indicator solution and acidify with 1 mL of HCl (1+1) if necessary.
- 35.3 Heat solution gently to boiling and add 10 mL of BaCl₂ solution dropwise while stirring.
- 35.4 Digest on a hot plate below the boiling point for 30 min.
 - 35.5 Cool overnight.
- 35.6 Filter through a tared Gooch crucible previously prepared with an asbestos mat and ignited in a muffle furnace at 800°C for 30 min. Transfer all the precipitate to the crucible with a rubber policeman. Wash with portions of hot water until washings are free of chlorides.
- 35.7 Dry the crucible at 110°C for 15 min, then ignite in a muffle furnace at 800°C for 30 min.
 - 35.8 Cool in a desiccator and reweigh.

36. Calculation

36.1 Calculate percentage of sulfate as follows:

sulfate, % mass (m/m) =
$$\frac{A}{B} \times 0.4115 \times 100$$
 (6)

where:

A = mass of precipitate, g, andB = mass of salt in aliquot, g.

37. Report

37.1 Report the percentage of sulfate to the nearest 0.001 %.

38. Precision and Bias

- 38.1 The following criteria should be used in judging the acceptability of results (Note 5):
- 38.1.1 Repeatability (Single Analyst)—The coefficient of variation for a single determination has been estimated to be 7.14 % relative at 120 df. The 95 % limit for the difference between two such runs is 20 % relative.
- 38.1.2 Laboratory Precision (Within-Laboratory, Between-Days Variability)—The coefficient of variation of results (each the average of duplicates), obtained by the same analyst on different days, has been estimated to be 8.03 % relative at 60 df. The 95 % limit for the difference between two such averages is 22 % relative.
- 38.1.3 Reproducibility (Multilaboratory)—The coefficient of variation of results (each the average of duplicates), obtained by the same analyst in different laboratories, has been estimated to be 8.01 % relative at 9 df. The 95 % limit for the difference between two such averages is 22 % relative.

Note 5—The preceding precision statements are based on an interlaboratory study performed around 1975 on six samples of sodium chloride covering the range from 0.016 to 2.030 % sulfate. One analyst in each of ten laboratories performed duplicate determinations and repeated them on a second day. Practice E180 was used in developing these precision estimates.

38.1.4 Bias—The bias of this test method has not been determined due to the unavailability of suitable reference materials.

REPORTING OF ANALYSES

39. Scope

39.1 Analyses should be reported on a dry basis. If analyses are on an as received sample, correction should be made by converting to a dry basis. Sodium chloride purity is determined by subtracting the total percentage of impurities from 100. Moisture should be reported as a separate value.

40. Procedure

- 40.1 Convert sulfate to calcium sulfate and the unused calcium to calcium chloride unless the sulfate in sample exceeds the quantity necessary to combine with the calcium. In this case, convert the calcium to calcium sulfate and the unused sulfate first to magnesium sulfate, and the remaining sulfate, if any, to sodium sulfate. Convert the unused magnesium to magnesium chloride.
- 40.2 Report rock and solar salt impurities to the second decimal place and salt purity, by difference, to the first decimal place.
- 40.3 Report evaporated salt impurities to the third decimal place and salt purity, by difference, to the second decimal place.
- 40.4 Report purified salt impurities to the fourth decimal place and salt purity, by difference, to the third decimal place.

41. Conversion Factors

 $BaSO_4 \times 0.4116 = SO_4$ $BaSO_4 \times 0.5832 = CaSO_4$ $BaSO_4 \times 0.6086 = Na_2SO_4$

⁷ This reagent is also described in Practice E200.



Ca	×	3.3967 = CaSO ₄
Ca	×	0.6064 = Mg
CaSO ₄	×	0.2944 = Ca
CaSO ₄	×	0.8153 = CaCl ₂
CaSO ₄	×	$0.8842 = MgSO_4$
CaSO ₄	×	1.0434 = Na ₂ SO ₄
Mg	×	3.9173 = MgCl ₂
MgCl ₂	×	1,4296 = CaSO ₄
MgCl ₂	×	$1.2641 = MgSO_4$

MgSO₄ × 1.4299 = CaSO₄ MgSO₄ × 1.1311 = MgCl₂ MgSO₄ × 1.1800 = Na₂SO₄ SO₄ × 1.4173 = CaSO₄

42. Keywords

42.1 calcium; evaporated salt; magnesium; moisture; purified salt; rock salt; sodium chloride; sulfate; water insolubles

SUMMARY OF CHANGES

Subcommittee E15.02 has identified the location of selected changes to this standard since the last issue (E534-08) that may impact the use of this standard.

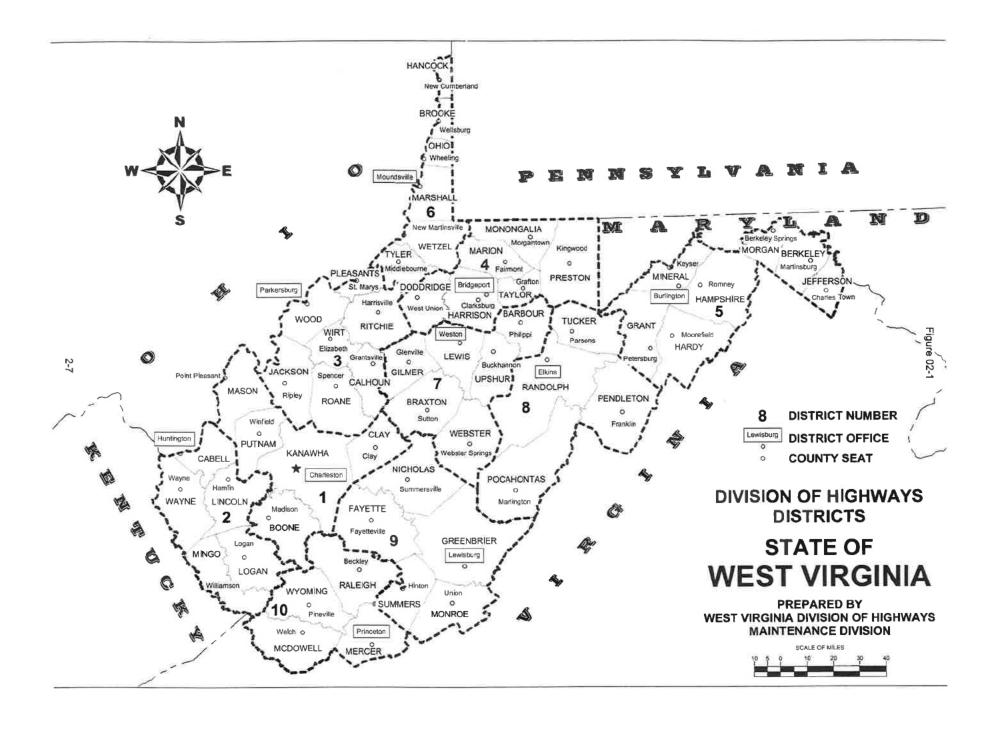
(1) Deleted "in almost unlimited quantities" from 3.1.

(2) Added "or watch glass" to 20.2.

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ROADWAY SALT - SODIUM CHLORIDE 6623c006 DELIVERY SITE LOCATIONS & CONTACT INFORMATION

DISTRICT 2

				DISTRICT 2						Delivery Location
			pm (, 143	Contact Name	Contact Phone	Contact Email	Org. No.	Long	Lat	Location Details / Directions
County	Delivery Site Designation	Physical Address	Bill-to Address	Candis Adkins	304-736-3111	candis.d.adkins@wv.gov	0206	-82.266870	38,410300	
	Barboursville /	6200 Route 60 East	P.O. Box 880 Huntington, WV 25712	Tony Edmonds	304-736-3111	tony.s.edmonds@wv.gov	0200	(12.2007)	71	
	Cabell County Headquarters	Barboursville, WV 25504	Huntington, WV 23712	Jerry Pullen	304-528-5669	jerry.l.pullen@wv.gov	0271	-82.400610	38.391900	
		3100 16th Street Road	P.O. Box 880	Kevin Manns	304-528-5669	kevin.r.manns@wv.gov	0271	-(12.400010		
Cabell	Huntington I-64 Section 1	Huntington, WV 25704	Huntington, WV 25712	Jerry Pullen	304-528-5669	ierry.l.pullen@wv.gov	0271	-82.482793	38,409345	
		1637 Jefferson Street	P,O. Box 880	Kevin Manns	304-528-5669	kevin_r.manns@wv.gov	02/1	-02.402770	3.5.00	
	Huntington 17th St. Bridge	Huntington, WV 25704	Iuntington, WV 25712	Candis Adkins	304-736-3111	candis.d.adkins@wv.gov	0206	-82.390793	38,428182	
		3200 5th Avenue	P.O. Box 880		304-736-3111	tony.s.edmonds@wv.gov	0200	-02.370173	50,120102	
	Huntington 31st Bridge	Huntington, WV 25702	Huntington, WV 25712	Tony Edmonds	304-824-3434	cynthia d.lucas@wv.gov	0222	-82.197600	38,275050	
	West Hamlin /	7338 State Route 10	P,O. Box 880	Cynthia Lucas	304-824-3434	linda g.adkins@wv.gov	0222	-82.197000	30,273030	
	Lincoln County Headquarters	West Hamlin, WV 25571	Huntington, WV 25712	Linda Adkins	304-824-3434	cynthia d.lucas@wv.gov	0000	-81.958010	38,221810	
Lincoln		WV State Route 3	P.O. Box 880	Cynthia Lucas		linda.g.adkins@wy.gov	0222	-1.950010	36,221610	
	Yawkey Substation	Yawkey, WV 25573	Huntington, WV 25712	Linda Adkins	304-824-3434 304-824-3434	cynthia.d.lucas@wv.gov			38,037990	
		McClellan Highway	P.O. Box 880	Cynthia Lucas		linda.g.adkins@wv.gov	0222	-82.139310	38,037990	
	Harts Substation	Harts, WV 25524	Huntington, WV 25712	Linda Adkins	304-824-3434	elizabeth,a.spry@wv.gov			27.02/720	
		8100 Old Logan Road	P.O. Box 880	Elizabeth Spry	304-792-7035	larry.e.hubbard@wv.gov	0282	-82,006580	37.935720	
	Corridor G Sect 2 @ Chapmanville	Chapmanville, WV 25508	Huntington, WV 25712	Larry Hubbard	304-792-7035					
		127 Springfield Road Wilkinson, WV 25653	P.O. Box 880	Elizabeth Spry	304-792-7035	elizabeth.a.spry@wv.gov	0223	-81.997070	37,826390	
Logan	Wilkinson Substation		Huntington, WV 25712	Larry Hubbard	304-792-7035	larry.e.hubbard@wv.gov				
Logan		4801 Buffalo Creek Road	P.O. Box 880	Elizabeth Spry	304-792-7035	elizabeth a spry@wv.gov	0223	-81.811310	37,785550	
	Man Substation	Amherstdale, WV 25607	Huntington, WV 25712	Larry Hubbard	304-792-7035	larry_e.hubbard@wv.gov		01.07227		
		#1 Hickory Lane	P.O. Box 880	Elizabeth Spry	304-792-7035	elizabeth.a.spry@wv.gov	0223	-81,963273	37.821282	
	Hickory Lane	Stollings, WV 25646	Huntington, WV 25712	Larry Hubbard	304-792-7035	larry.e.hubbard@wv.gov	-			
		1 Highway Garage Road	P.O. Box 880	Tristan Spaulding	304-235-6003	tristan.a.spaulding@wv.gov	0281	-82.298060	37.768890	
	Corridor G @ Miller's Creek	Williamson, WV 25661	Huntington, WV 25712	Justin Pinson	304-235-6060	justin pinson@wv.gov	-			
		1 Highway Garage Road	P.O. Box 880	Tristan Spaulding	304-235-6003	tristan.a.spaulding@wv.gov	0230	-82,297990	37.768910	
	Mingo County Headquarters @Miller's Creek Building #03025	Williamson, WV 25661	Huntington, WV 25712	Justin Pinson	304-235-6060	justin.pinson@wv.gov				
Mingo	ig. The same of th	1.0.50	P.O. Box 880	Tristan Spaulding	304-235-6003	tristan a spaulding@wv.gov	0230	-81,903450	37,628760	
	Gilbert Substation	US 52 Gilbert, WV 25621	Huntington, WV 25712	Justin Pinson	304-235-6060	justin.pinson@wv.gov			-	
	Chock Substantia		D O D 000	Tristan Spaulding	304-235-6060	tristan.a.spaulding@wv.gov	0230	-82.259779	37,770469	
	Mingo 119 South	US 119 - Mile 11 Williamson, WV 25661	P.O. Box 880 Huntington, WV 25712	Justin Pinson	304-235-6060	justin pinson@wv.gov		-		
	Mingo 119 boam			Kimberly Conway	304-272-5127	kimberly, j.conway@wv.gov	0250	-82.591500	38,243420	N .
	Dishard Substation	1249 Prichard Road Prichard, WV 25555	P.O. Box 880 Huntington, WV 25712	Glenn Matthews	304-486-5010	glenn.a.matthews@wv.gov	-	1		
	Prichard Substation	1		Kimberly Conway	304-272-5127	kimberly.j.conway@wv.gov	0250	-82,442120	38,225840	
		326 Third Street Wayne, WV 25571	P.O. Box 880 Huntington, WV 25712	Glenn Matthews	304-486-5010	glenn, a, matthews@wv.gov			-	
Wayne	Wayne County Headquarters	Wayne, 11 1 23371		Kimberly Conway	304-528-5681	kimberly.j.conway@wv.gov	0250	-82,428650	37,935770	
	2 20 W	20351 Tolsia Highway Crum, WV 25669	P.O. Box 880 Huntington, WV 25712	Glenn Matthews	304-486-5010	glenn.a.matthews@wv.gov				
	Crum Substation	Crum, W V 23009		Kimberly Conway	304-528-5681	kimberly,i.conway@wv.gov	0250	-82_604702	38,224869	
	1	#1 Heartland Road Prichard, WV 25555	P.O. Box 880 Huntington, WV 25712	Glenn Matthews	304-486-5010	glenn a.matthews@wv.gov	0207			

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DISTRICT 4

	WA									Delivery Locution	
County	Delivery Site Designation	Physical Address	Bill-to Address	Contact Name	Contact Phone	Contact Email	Org.	Long	Lat	Location Details / Directions	
Doddridge	Greenwood	321 Long Run Rd	P. O. Box 4220	Becky McCombs	304-873-2771	rebecca.m.mccombs@wv.gov	- 0409 I	-80,889547	39,275167		
		Greenwood, WV 26415	Clarksburg, WV 26302	Tonya Gum	304-873-2771	tonya.l.gum@wv.gov				CR 36/11 in Greenwood	
	West Union	1993 Smithton Rd	P. O. Box 4220	Becky McCombs	304-627-2412	rebecca.m.mccombs@wv.gov	0409	-80,745100	39:297700		
		West Union, WV 26456	Clarksburg, WV 26302	Tonya Gum	304-627-2412	tonya.l.gum@wv.gov				Old RT 50 in Smithburg	
	Harrison County Headquarters	119 Railcross Rd	P. O. Box 4220	Darren Hutson	304-627-2140	darren, w.hutson@wv.gov	0417	-80.354000	39,309600		
		Clarksburg, WV 26301	Clarksburg, WV 26302	Chelsea McIe	304-627-2140	chelsea.r.mcie@wv.gov				US 19 North of Clarksburg	
	Saltwell	3833 Benedum Dr	P. O. Box 4220	Kenny Welch	304-627-2411	kenny.j.welch@wv.gov	0472	-80,221899	39,335847		
Harrison		Bridgeport, WV 26330	Clarksburg, WV 26302	Darren Bennett	304-627-2411	darren.l.bennett@wv.gov				I-79 Exit 125	
	Lost Creek Substation	851 N. Streetcar Way	P. O. Box 4220	Kenny Welch	304-627-2411	kenny.j.welch@wv.gov	0472	-80.343700	39.171700		
	200. 0.000 0.000.	Lost Creek, WV 26385	Clarksburg, WV 26302	Darren Bennett	304-627-2411	darren.l.bennett@wv.gov		10.01010	33.171700	I-79 Exit 110	
	Tunnel Hill Substation	281 Tunnel Hill Rd	P. O. Box 4220	Jesse Sigley	304-782-3668	jesse.a.sigley@wv.gov	0482	-80,510400	39,292500		
	The state of the s	Salem, WV 26426	Clarksburg, WV 26302	Kenny Flowers	304-782-3668	kenneth.a.flowers@wv.gov		55,215.50	27,272500	Junction of US 50 & CR 50/7	
	Marion County Headquarters	916 Country Club Road	P. O. Box 4220	Laura Carney	304-367-2730	laura.m.carney@wv.gov	0425	-80,166600	39.468600		
Marion	Marion County Fredequations	Fairmont, WV 26554	Clarksburg, WV 26302	Rodney McIe	304-367-2730	rodney.r.mcie@wv.gov		-00,100000	-80,100000	33.400000	US 19 Spur West of Fairmont
771411013	Mannington Substation	1396 East Maint St	P. O. Box 4220	Jim Villers	304-986-2600	james e villers@wv.gov	0425	-80.324400	39,519500		
	William Buddanion	Mannington, WV 26582	Clarksburg, WV 26302	Laura Carney	304-367-2730	laura.m.carney@wv.gov	0425		57,017,000	US 250	
	Goshen Road Substation	95 Goshen Rd	P. O. Box 4220	Donald Bragg	304-285-3145	donald.l.bragg@wv.gov	0471	-79.990500	39.537800		
	COLORIA TICALE DEDINATION	Goshen Road, WV 26508	Clarksburg, WV 26302	William Pernell	304-692-6364	william.h.pernell@wv.gov			35.00	I-79 Exit 146	
Monongalia	Monongalia County Headquarters	1510 Grafton Road	P. O. Box 4220	Michelle Carroll	304-285-3207	michelle.g.carroll@wv.gov	0431	-79.943900	39,560500		
Notiongana	Monongana County Treadquarters	Morgantown, WV 26508	Clarksburg, WV 26302	Elizabeth Gardner	304-285-3207	elizabeth.b.gardner@wv.gov			37,500300	US 119 South of Morgantown	
	Pentress Substation	5861 Mason Dixon HWY	P. O. Box 4220	Michael J Pitek	304-879-5275	michael.j.pitek@wv.gov	0431	-80.207200	39.719200	WV 7 West of Pentress	
	Tendess Substation	Pentress, WV 26544	Clarksburg, WV 26302	Michelle Carroll	304-285-3207	michelle.g.carroll@wv.gov			39,719200		
	Bruceton Mills Substation	14115 N. Preston HWY	P. O. Box 4220	Blain Bowmar	304-329-0192	blain.a.bowmar@wv.gov	0439	-79,641000	39,647200		
	Didector Will's Substation	Bruceton Mills, WV 26525	Clarksburg, WV 26302	Margie Waybright	304-329-0192	margorie.a.waybright@wv.gov			35,047200	WV 26 South of Bruceton Mills	
	Preston County Headquarters	1912 St. Joe Road	P. O. Box 4220	Blain Bowmar	304-329-0192	blain.a.bowmar@wv.gov	0439	-79.632100	39.483900		
	resion county rieadquarters	Albright, WV 26519	Clarksburg, WV 26302	Margie Waybright	304-329-0192	margorie.a.waybright@wv.gov		-79.032100	39.463900	CR 7/12 South of Albright	
	Terra Alta Substation	HWY	P. O. Box 4220	Blain Bowmar	304-329-0192	blain.a.bowmar@wv.gov	0439	-79.514900	39,438300		
Preston	Terra year Substation	Тепта Alta, WV 26764	Clarksburg, WV 26302	Margie Waybright	304-329-0192	margorie.a.waybright@wv.gov		-75.314500	32,436300	WV 7 East of Terra Alta	
- 1000011	Fellowsville Substation	HWY	P. O. Box 4220	Blain Bowmar	304-329-0192	blain.a.bowmar@wv.gov	0439	-79.812300	39-327300		
	Tono Horizon	Tunnelton, WV 26444	Clarksburg, WV 26302	Margie Waybright	304-329-0192	margorie.a.waybright@wv.gov		-77.612300	39,347300	US 50 East of Fellowsville	
	Aurora Substation	HWY	P. O. Box 4220	Blain Bowmar	304-329-0192	blain.a.bowmar@wv.gov	0439	-79.568200	39.317000		
	- Substitut	Aurora, WV 26705	Clarksburg, WV 26302	Margie Waybright	304-329-0192	margorie.a.waybright@wv.gov	0439	- 79,368200	39,317000	US 50 West of Aurora	
	Cooper's Rock Substation	174 Casteel Rd	P. O. Box 4220	Tina Bragg	304-285-3206	tina.m.bragg@wv.gov	0473	70 776970	20.650660		
	Cooper & Rock Substation	Coopers Rock, WV 26525	Clarksburg, WV 26302	Richard Coddington	304-285-3206	richard.l.coddington@wv.gov	04/3	-79,776830	39,659669	I-68 Exit 15	
Taulos	Taylor County Handanada	1340 Trap Spring Rd	P. O. Box 4220	Bob Petrel	304-265-6110	robert.d.petrel@wv.gov	0444	00.045000	20.222102	33333333	
Taylor	Taylor County Headquarters	Grafton, WV 26354	Clarksburg, WV 26302	Lisa Miles	304-265-6110	lisa.l.miles@wv.gov	0446	-80,065800	39,322100	US 250 East of Pruntytown	

ROADWAY SALT - SODIUM CHLORIDE 6623-006 DELIVERY SITE LOCATIONS & CONTACT INFORMATION DISTRICT 6

									Delivery Location		
County	Delivery Site Designation	Physical Address	Bill-to Address	Contact Name	Contact Phone	Contact Email	Org. No.	Long	Lat	Location Details / Directions	
Brooke	Brooke County HQ	WV Route 2, Box 615 Wellsburg, WV 26070	WV Route 2, Box 615 Wellsburg, WV	Beth Green	304-238-1199	beth, a green@wv.gov	0605	-80,609200	40.291300		
DIOOKC	US 22 Substation	1225 Rice Road Weirton, WV 26062	WV Route 2, Box 615 Wellsburg, WV	Beth Green	304-238-1199	beth.a.green@wv.gov	0605	-80,567662	40,395117		
Hancock	Hancock County HQ	1936 Veterans Blvd New Cumberland, WV 26047	1936 Veterans Blvd New Cumberland, WV	Vicki West	304-238-1200	vicki.Lwest@wv.gov	0615	-80,596400	40.528700		
	Marshall County HQ	100 Wheeling Avenue Glen Dale, WV 26038	100 Wheeling Avenue Glen Dale, WV	Doris McCardle	304-843-4055	doris_v_mccardle@wv,gov	0626	-80,753200	39,954600		
Marshall	Cameron Substation	33 Courtright Lane Cameron, WV 26033	100 Wheeling Avenue Glen Dale, WV 26038	Doris McCardle	304-843-4055	doris_v.mccardle@wv.gov	0626	-80.554600	39.819600		
Maranan	Sand Hill Substation	RD 4, Box 269A Cameron, WV 26033	100 Wheeling Avenue Glen Dale, WV 26038	Doris McCardle	304-843-4055	doris v mccardle@wv.gov	0626	-80,542377	39,952418		
	Lynn Camp Substation	438 Richmond Lane Glen Easton, WV 26039	100 Wheeling Avenue Glen Dale, WV 26038	Doris McCardle	304-843-4055	doris.v.mccardle@wv.gov	0626	-80.674667	39.810047		
Ohio	Ohio County HQ	3870 National Road Triadelphia, WV 26059	3870 National Road Triadelphia, WV	Tequila Oliver	304-238-1202	tequila, a, oliver@wv.gov	0626	-80.635600	40.047500		
Ощо	I-70 Interstate HQ	566 Woodland Acres Road Wheeling, WV 26003	566 Woodland Acres Road Wheeling, WV 26003	Valerie White	304-238-1202	valerie_m_whitc@wv_gov	0671	-80,634341	40,044256		
Tyler	Tyler County HQ	730 Tyler Highway Sistersville, WV 26175	2566 Tyler Highway Sistersville, WV	Thelma Deaton	304-843-4057	thelma_f.deaton@wv.gov	0648	-80.965163	39.540286		
	Centerville Substation	4901 Middle Island Road Alma, WV 26320	730 Tyler Highway Sistersville, WV	Thelma Deaton	304-843-4057	thelma_f.deaton@wv.gov	0648	-80,835687	39,412453		
Wetzel	Wetzel County HQ	N. State Route 2, Box 641 New Martinsville, WV 26155	N, State Route 2, Box 641 New Martinsville, WV	Donna Palmer	304-843-4058	donna.l.palmer@wv.gov	0652	-80.856100	39.682300		
	Pine Grove Substation	WV 20, MP 17,14 Pine Grove, WV 26419.	N; State Route 2, Box 641 New Martinsville, WV	Dorma Palmer	304-843-4058	donna.l.palmer@wv.gov	0652	-80,696000	39,564700		
	Hundred Substation	US 250, MP3,00 Hundred, WV 26575	N. State Route 2, Box 641 New Martinsville, WV	Donna Palmer	304-843-4058	donna.Lpalmer@wv.gov	0652	-80,443000	39.670500		

ROADWAY SALT - SODIUM CHLORIDE 6623C006 DELIVERY SITE LOCATIONS & CONTACT INFORMATION

DISTRICT 8

County	Delivery Site Designation	Physical Address	Bill-to Address	Contact Name	Contact Phone	Contact Email	Org. No.	Long	Lat	Delivery Location Location Details / Directions
County		3153 Petersburg Pike	P. O. Box 1516	Comactivance	Conactraone	Contact Email	Org. No.	Long	Lat	Location Details / Directions
	Franklin / 220 North Lot	US 220N, Franklin, WV 26807	Elkins, WV 26241	Dywayne Stout	304-358-2702	albert h.hartman@wv.gov	0836	-79.326894	38.682757	US 220 2,20 Mi, North Jet, US 33 & US 220
	Judy Gap Substation	12795 Mountaineer Drive US 33, Riverton, WV 26814	P. O. Box 1516 Elkins, WV 26241	Dywayne Stour	304-358-2702	albert h hartman@wv.gov	0836	×79_467481	38,711186	US 33 - 0.5 mi, North of Jet, US 33 & WV 28
endleton	Brandywine Stockpile	12211 Blue Gray Trail CR 21, Brandywine, WV 26802	P. O. Box 1516 Elkins, WV 26241	Dywayne Stout	304-358-2702	albert,h,hartman@wv.gov	0836	79 236129	38,622249	US 33 0,60 Mi, East of Jot. CR 21 & US 33
	Onego Stockpile	3354 Allegheny Drive US 33, Seneca Rocks, WV 26884	P. O. Box 1516 Elkins, WV 26241	Dywayne Stout	304-358-2702	albert.h.hartman@wv.gov	0836	-79,426343	38,852193	US 33 0.50 Mi. West of Jet. US 33 & CR-5/1
	Franklin / Rt 220 South Lot	6591 Upper South Branch Road US 220S, Franklin, WV 26807	P. O. Box 1516 Elkins, WV 26241	Dywayne Stout	304-358-2702	albert.h_hartman@wv_eov	-0836	-79,410338	38,585892	US 220 2 07 Mi. North of Jet. CO 25 & US 220
	Pocahontas County HQ	25 Brush Country Rd US 219, Marlinton, WV 24954	P. O. Box 1516 Elkins, WV 26241	Josh Dilley	304-799-4867	joshua.l.dilley@wv.gov	0838	-80.087167		US 219 At Jet. US 219 & CR 15
	Seebert Stockpile	863 Seebert Rd CR 27, Seebert, WV 24946	P. O. Box 1516 Elkins, WV 2624)	Josh Dilley	304-799-4867	joshua I dilley@wv.gov	0838	-80.186737	38,136082	CR 27 1;0 Mile East of US 219
cahontas	Green Bank Substation	4757 Potomac Highlands Trail WV 28, Green Bank, WV 24944	P. O. Box 1516 Elkins, WV 26241	Josh Dilley	304-799-4867	joshua.l.dilley@wv.gov	0838	-79.842462	38,416242	WV 28 0,50 Mi, South of Jet, WV 28 & CR 28/24
· · · · · · · · · · · · · · · · · · ·	Bartow Lot	156 Thornwood Rd WV 28, Bartow, WV 24920	P. O, Box 1516 Elkins, WV 26241	Josh Dilley	304-799-4867	joshua I. dilley@wv.gov	0838	-79.760539		CO 28/19 0.17 Mi. North of Jct. WV 28 & CO 28/19
	Snowshoe Stockpile	24 Shavers Lake Rd CR 9/3, Snowshoe, WV 26209	P. O, Box 1516 Elkins, WV 26241	Josh Dilley	304-799-4867	joshua l, dilley@wv.gov	0838	-79.995836	38,435312	CO 9/3 Silver Lake Road
	Slaty Fork Stockpile	35807 Seneca Trail US-219, Slaty Fork, WV 26291	P. O. Box 1516 Elkins, WV 26241	Josh Dilley	304-799-4867	joshua.l,dilley@wv.gov	0838	-80.098980	38,418395	US 219 3.0 Miles South of WV 66
	Randolph County HO	76 Country Club Rd CR 219/11, Elkins, WV 26241	P, O, Box 1516 Elkins, WV 26241	Leonard Markley	304-637-0266	leonard e markley@wy.gov	0842	-79.848604	38,888936	0,10 ML S, JCT 219/11 US219 7 US250
	Harman Substation	22445 Allegheny Highway US 33, Harman, WV 26270	P, O, Box 1516 Elkins, WV 26241	Leonard Markley	304-637-0266	Jeonard.e.markley@wv.gov	0842	-79,522874	38,921273	Intersection of US 33 & WV 32
	Coalton Substation	2453 Coalton-Pumpkintown Rd CR 53, Coalton, WV 26257	P. O. Box 1516 Elkins, WV 26241	Leonard Markley	304-637-0266	leonard.e.markley@wv.gov	0842	79,976773	38,907759	CR 53 near Jet, CR 53 & CR 5/3
tandolph	Valley Head Substation	245 Point Mountain Rd WV 15, Valley Head, WV 26294	P. O. Box 1516 Elkins, WV 26241	Leonard Markley	304-637-0266	leonard e markley@wv.gov	0842	-80.037778	38.551946	WV 15 0,10 ML SW Jet of US 219 & WV 15
	Mill Creek Substation	9407 Seneca Trail US 219, Mill Creek, WV 26280	P, O, Box 1516 Elkins, WV 26241	Leonard Markley	304-637-0266	leonard.e.markley@wv.gov	0842	-79.966415	38,737338	US 250/US 219 0.67 Mi. N. Jel. of CR 46
	Pickens Substation	1019 Pickens Rd CR 45, Pickens, WV 26230	P. O. Box 1516 Elkins, WV 2624J	Leonard Markley	304-637-0266	leonard e.markley@wv.gov	0842	-80,200313	38.657067	CR 45 at the Jet. of CR 46/1 & CR 45
	Corridor H	489 Leading Creek Rd US 219N, Elkins, WV 26241	P. O. Box 1516 Elkins, WV 26241	David Skidmore	304-637-0220	david_r_skidmore@wv_gov	0882	-79.850291		US 48 0,52 Mi, W CO I Connector
	Tucker County HQ	9209 Seneca Trail US 219, Parsons, WV 26287	P. O, Box 1516 Elkins, WV 26241	Dennis Roth	304-478-2304	dennis k roth@wv.gov	0847	-79.655486	39.091667	US 219/WV 72 0,10 Mi. S, Jet, CR 219/14
Tucker	Thomas Substation	15933 Appalachian Highway WV 32, Thomas, WV 26292	P. O. Box 1516 Elkins, WV 26241	Dennis Roth	304-478-2304	dennis,k,roth@wv,gov	0847	→79_656404		WV 32 at Jet, of CR 32/1
	Corridor H - Thomas	15933 Appalachian Highway WV 32, Thomas, WV 26292	P. O. Box 1516 Elkins, WV 26241	Greg Roy	304-642-1140	no email	0883	-79,495730		WV 32 at Jet, of CR 32/1

ROADWAY SALT - SODIUM CHLORIDE 6623c006 DELIVERY SITE LOCATIONS & CONTACT INFORMATION

DISTRICT 10

County	Delivery Site Designation	Dhardael Address	021 4- 444	1 0 4 18	C		In			Delivery Location
County	Delivery Site Designation	Physical Address	Bill-to Address	Contact Name	Contact Phone	Contact Email	Org. No.	Long	Lat	Location Details / Directions
				Andrew Thomas	304-436-6896	lloyd_a,thomas@wv_gov	1024	-81.572303	37.399177	
	McDowell County HQ	100 Headquarters Lane Havaco, WV 24801	270 Hardwood Lane Princeton, WV 24740	Patricia Wagers	304-436-8411	patricia a wapers@wv.gov	1021	-01,972505	37,333177	
				Andrew Thomas	304-436-6896	llovd a thomas@wv.gov	1024	E3 COCOO	27.220707	
McDowell	Yukon Substation	383 Marshall Highway Yukon, WV 24892	270 Hardwood Lane Princeton, WV 24740	Patricia Wagers	304-436-8411	patricia a wagers@wv.gov	1024	-81.696982	37.320782	
Modernia				Andrew Thomas	304-436-6896	llovd a thomas@wv.gov				
	Johnny Cake Substation	72 Coal Heritage Rd Johnny Cake, WV 24844	270 Hardwood Lane Princeton, WV 24740	Patricia Wagers	304-436-8411	patricia a wagers@wv.gov	1024	-81.811437	37,505975	
				Andrew Thomas	304-436-6896	lloyd a thomas@wv_gov	1024	-81,779132	37.346217	
	Raysal	8388 Marshall Highway WV 83 Raysal, WV 24879	270 Hardwood Lane Princeton, WV 24740	Patricia Wagers	304-436-8411	patricia a wagers@wv.gov	1024	-81,179132	37.346217	
	restrict.	Rayeas, WV 24619	Trincount, WY 24740					-		
		454 New Hope Rd	270 Hardwood Lane	Kevin Belcher	304-425-2782	kevin g belchers@wv.gov	1028	-81,115398	37,366396	WV 20 0.10 Mi, W, of Princeton at Jct, WV 10
	Mercer County HQ	Princeton, WV 24740	Princeton, WV 24740	Melissa D. Midkiff	304-425-2025	melissa d midkiff@wv_gov				
Mercer				Kevin Belcher	304-425-2782	kevin g belchers@wv.gov	1028	-81.108332	37,587853	
	Flat Top Substation	21585 Beckley Road Flat Top, WV 25841	270 Hardwood Lane Princeton, WV 24740	Melissa D. Midkiff	304-425-2025	melissa,d.midkiff@wv.gov	1020	01,100352		
				Kevin Weiss	304-487-5280	kevin e weiss@wv.gov		01.055259	25.250522	
	I-77 near Princeton	320 Ambrose Lane Princeton, WV 24740	270 Hardwood Lane Princeton, WV 24740	Richard A. Cregger	304-487-5228	richard a cregger@wv.gov	1071	-81.055387	37.358522	
		379 Market Road IQ Beckley, WV 25801	270 Hardwood Lane Princeton, WY 24740	Johnny Vass	304-256-6830	johnny.a.vass@wv.gov	1041	-81, 188918	37.812597	
				Jeremy Canady	304-573-0524	Jeremy.w.canadav@wy.gov				Located on County route 21/04 at Skelton
	Raleigh County HO			Marcia McGrady	304-256-6746	marcia.d.mcgradv@wv.gov				
			220000000000000000000000000000000000000							
Raleigh		1		Johnny Vass	304-256-6830	johnny a. vass@wv. gov	·			
		2314 Bolt Road	270 Hardwood Lane	Jeremy Canady	304-573-0524	Jeremy w canaday@wv.gov	1041	37,764016	37,764016	
	Bolt Substation	Bolt, WV 25817	Princeton, WV 24740	Marcia McGrady	304-256-6746	marcia d mcgrady@wv gov				
				Joe Adkins	304-763-5312	r joe adkins@wv.gov	1072	-80.984845	37,773654	
	Bragg Substation	200 Samaritan Drive Shady Spring, WV 25918	270 Hardwood Lane Princeton, WV 24740	Jeremy Canady	304-573-0524	Jeremy w canaday@wv gov	1072	-80,984843	37,773634	
				Tom Ellis	304-732-7280	thomas e ellis@wv.gov	1055	-81.509619	37,591109	
	Wyoming County HO	1409 Bearhole Rd (WV 97) Pineville, WV 24874	270 Hardwood Lane Princeton, WV 24740	Eva England	304-732-7031	eva.m.england@wv.gov	1035	-81,309019	37,391109	1
Warenin				Tom Ellis	304-732-7031	thomas e ellis@wv.gov				
Wyoming	Still Run Substation	9390 River Road Still Run, WV 25882	270 Hardwood Lane Princeton, WV 24740	Eva England	304-732-7031	eva m england@wv gov	1055	-81,434440	37,578902	
				Tom Ellis	304-732-7280	thomas e ellis@wv.gov	1000	01 700005	20.00200	
	Hanover Outpost	2959 US 52 Hanover, WV 24839	270 Hardwood Lane Princeton, WV 24740	Eva England	304-732-7031	eva m england@wv.gov	1055	-81,798082	37,572979	



Department of Administration Purchasing Division 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

State of West Virginia Centralized Request for Quote **Highways**

Proc Folder:	1087735		Reason for Modification:
Doc Description:	Roadway Salt - Sodium Chl		
Proc Type:	Central Master Agreement		
Date Issued	Solicitation Closes	Solicitation No	Version
2022-08-29	2022-09-14 13:30	CRFQ 0803 DOT2300000020	1

BID RECEIVING LOCATION

BID CLERK

DEPARTMENT OF ADMINISTRATION

PURCHASING DIVISION 2019 WASHINGTON ST E

CHARLESTON WV 25305

US

VENDOR

Vendor Customer Code: 211733

Vendor Name : Compass Minerals America Inc.

Address: 9900 W. 109th Street

Street:

City: Overland Park

Country: Zip: 66210 USA State: KS

Principal Contact : Harrison Green

Vendor Contact Phone: 800-323-1641 Extension: press 2

FOR INFORMATION CONTACT THE BUYER

John W Estep 304-558-2566

john.w.estep@wv.gov

Vendor Signature X

-FEIN# 48-1047632

All offers subject to all terms and conditions contained in this solicitation

Date Printed: Aug 29, 2022 Page: 1 FORM ID: WV-PRC-CRFQ-002 2020/05

ADDITIONAL INFORMATION

REQUEST FOR QUOTATION:

The West Virginia Purchasing Division is soliciting bids on behalf of the West Virginia Division of Highways and the West Virginia Parkways Authority to establish an open-end contract for roadway salt, as needed and on a continuing basis, for use in snow removal and ice control throughout the state of West Virginia for delivery of materials by Vendor, FOB. to Agency storage locations per county as well as Agency pick up from Vendor storage sites.

Per the Bid Requirements, Specifications, Terms and Conditions attached to this solicitation.

INVOICE TO		SHIP TO			
VARIOUS AGENCY	,	STATE OF WEST VIRGINIA			
AS INDICATED BY ORDER			VARIOUS LOCATIONS AS INDICATED BY ORDER		
No City	WV	No City	WV		
us		US			

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	Roadway Salt - Sodium Chloride	0.00000	TON		

Comm Code	Manufacturer	Specification	Model #	
46161506				

Extended Description:

Roadway Salt - Sodium Chloride for use in snow removal and ice control throughout the state of West Virginia.

VENDOR NOTE: Bid evaluation will be based on the bid prices submitted on the Pricing Pages Attachment A (ATT A) and Attachment B(ATT B). Vendor's entries of bid prices or other notations made in the wvOASIS commodity lines/descriptions will not be considered for bid evaluation or award.

SCHEDULE OF EVENTS

Line	Event	Event Date	
1	Tech Questions due by 10:00am	2022-09-06	

Date Printed: Aug 29, 2022

	Document Phase	Document Description	Page 3
DOT2300000020		Roadway Salt - Sodium Chloride 6623C006	

ADDITIONAL TERMS AND CONDITIONS

See attached document(s) for additional Terms and Conditions



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 11/02/2021

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

ADDITIONAL INSURED provisions or be

IMPORTANT: If the certificate holder is If SUBROGATION IS WAIVED, subject this certificate does not confer rights to	to the ter	rms and conditions of the	ch endo	rsement(s).	iicles may re	AL INSURED provisions of equire an endorsement.	A stat	ement on
PRODUCER Marsh USA Risk & Insurance Services		-	PHONE (A/C, No.	11E 712		FAX (A/G, No):		
15 West South Temple, Suite 700 Salt Lake City, UT 84101			E-MAIL ADDRESS					
200 1300 C 200 N						DING COVERAGE	-	NAIC#
CN101916390-STND-GAWU-21-22			INSURER	A : ACE Americ	an Insurance Cor	mpany	_	2667
INSURED Compass Minerals America Inc.			INSURER	B:N/A				I/A
and Subsidiaries		-	INSURER					
9900 W, 109th Street, Suite 100 Overland Park, KS 66210			INSURER					
Cycliatio 1 d.K, No. 30210			INSURER					
	TIEICATI	E NUMBER:	SEA-0	03458212-15		REVISION NUMBER: 1		
THIS IS TO CERTIFY THAT THE POLICIES INDICATED. NOTWITHSTANDING ANY RECERTIFICATE MAY BE ISSUED OR MAY EXCLUSIONS AND CONDITIONS OF SUCH	OF INSU	RANCE LISTED BELOW HAVENT, TERM OR CONDITION THE INSURANCE AFFORDI LIMITS SHOWN MAY HAVE	ED BY T	HE POLICIES	PAID CLAIMS.	HEREIN IS SUBJECT TO	POLIC TO W	CY PERIOD WHICH THIS HE TERMS,
LTR TYPE OF INSURANCE	INSD WVD	XSLG27631022	$\overline{}$		(MM/DD/YYYY) 11/01/2022	EACHOCCURRENCE \$		2,000,000
A X COMMERCIAL GENERAL LIABILITY		XSLG2/631022		111011202		DAMAGE TO RENTED PREMISES (Ea occurrence) \$		1,000,000
CLAIMS-MADE X OCCUR						MED EXP (Any one person) \$		
X SIR \$500,000						PERSONAL & ADV INJURY \$	5	2,000,000
GEN'L AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGATE \$	S	4,000,000
X POLICY PRO-						PRODUCTS - COMP/OP AGG \$		4,000,000
A AUTOMOBILE LIABILITY		ISAH08867914		11/01/2021	11/01/2022	COMBINED SINGLE LIMIT (Ea accident)	5	1,000,000
X ANY AUTO	1					BODILY INJURY (Per person) 5	\$	
OWNED SCHEDULED						BODILY INJURY (Per accident)	_	
AUTOS ONLY HIRED AUTOS ONLY AUTOS ONLY AUTOS ONLY						(Per accident)	\$	
UMBRELLA LIAB OCCUR						EACHOCCURRENCE S	s	
EXCESS LIAB OCCUR CLAIMS-MADE						AGGREGATE	\$	
DED RETENTION \$							\$	
A WORKERS COMPENSATION		WLRC68930959 (AOS)		11/01/2021	11/01/2022	X PER STATUTE OTH-		1,000,000
A AND EMPLOYERS' LIABILITY ANYPROPRIETOR/PATTNER/EXECUTIVE N	N/A	SCFC68930960 (WI)		11/01/2021	11/01/2022		\$	1,000,000
(Mandatory in NH)	"'^					E.L. DISEASE - EA EMPLOYEE	700	1,000,000
If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - POLICY LIMIT	s	,,,,,,,,
DESCRIPTION OF OPERATIONS / LOCATIONS / VEHI	CLES (ACOI	RD 101, Additional Remarks Sched	fule, may b	e attached if mo	re space is requi	ired)		
Re: State of West Virginia Road Salt Contract #6613002 West Virginia Division of Highways is included as addition	7							
			0411	CELL ATION				
West Virginia Division of Highways 1900 Kanawha Blvd. Charleston, WV 25305			SH	F FXPIRATION	THE ABOVE	DESCRIBED POLICIES BE CA HEREOF, NOTICE WILL E ICY PROVISIONS.	ANCEL BE DE	LED BEFORE ELIVERED IN
			AUTH	ORIZED REPRES	ENTATIVE			

Marsh USA Risk & Insurance Services

Vendor shall complete ATT A by providing a unit price per ton for any or all Counties listed.

The Extended Price amount for each County will autofill upon Vendor entry of its Price Per Ton. The price that populates in the Extended Price cells will be a result of the County's estimated tonnage multiplied by the Vendor's Price Per Ton bid entry.

Vendor Name	Compass Minerals America Inc.	
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	DISTRICT 1							
County	Delivery Site Location	Estimated Tonnage	Price per Ton		Extended Price			
	Clinton @ WV85	1,000.00						
Boone	Rock Creek	2,500.00						
	Seth	750.00						
I	Boone County Estimated Total	4,250	\$	98.94	\$	420,495.00		
CI.	Widen Road & CR 11	2,000.00						
Clay	Maysel	100.00						
	Clay County Estimated Total	2,100	\$	108.10	\$	227,010.00		
	Chelyan	1,500.00						
	Elkview	2,200.00						
	North Charleston	2,200.00						
Kanawha	St. Albans	2,500.00						
Kanawna	I-64 @ Rt. 119 and Penn. Avenue	1,200.00						
	I-77 @ Sissonville	1,100.00						
	I-79 @ Amma	1,100.00						
	Corridor G @ Alum Creek	1,500.00						
Ka	anawha County Estimated Total	13,300	\$	95.44	\$	1,269,352.00		
	Glenwood	500.00						
Mason	Pt. Pleasant @ Fairground Rd.	5,000.00						
	Pt. Pleasant @ Jackson Ave.	-						
N	Mason County Estimated Total	5,500	\$	93.33	\$	513,315.00		
	Red House	500.00						
Putnam	Hurricane @ Rt. 34	2,500.00						
	I-64 @ Scary Creek	1,000.00						
P	utnam County Estimated Total	4,000	\$	94.10	\$	376,400.00		
DIS	STRICT 1 ESTIMATED TOTAL	29,150						

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vengor Name Compass Minerais America inc.	Vendor Name	Comp	oass Minerals America Inc.
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County	Delivery Site Location	Estimated Tonnage	Price per Ton		Extended Price	
	Barboursville / Cabell Co. HQ	3,250				
Cabell	Huntington I-64 Section 1	2,450				
Cabell	Huntington 31st Bridge	200				
	Huntington 17th St. Bridge	-				
	Cabell County Estimated Total	5,900	\$	92.15	\$	543,685
	West Hamlin	2,000				
Lincoln	Yawkey	1,200				
	Harts	1,100				
	Lincoln County Estimated Total	4,300	\$	106.56	\$	458,208
	Corridor G @ Chapmanville	1,700				
Logan	Wilkinson Substation	2,500				
	Man Substation	50				
	Hickory Lane	-				
	Logan County Estimated Total	4,250	\$	116.96	\$	497,080
	Corridor G @ Miller's Creek, Bldg #03011	2,050				
	Mingo Cty @Miller's Creek, Bldg #03025	2,100				
Mingo	Gilbert Substation	1,150				
	Mingo 119 South	-				
	Mingo County Estimated Total	5,300	\$	112.90	\$	598,370
	Pritchard Substation	3,531				
W	Wayne County Headquarters	2,700				
Wayne	Crum Substation	1,500				
	Heartland Intermodal Gateway	-				
	Wayne County Estimated Total	7,731	\$	93.68	\$	724,240
	DISTRICT 2 ESTIMATED TOTAL	27,481				

Vendor shall complete ATT A by providing a unit price per ton for any or all Counties listed.

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Vendor Name	Compass Minerals America Inc.

	DISTR	ICT 3				
County	Delivery Site Location	Estimated Tonnage	Price per Ton		E	xtended Price
Calhoun	Millstone	5500				
Calho	oun County Estimated Total	5500	\$	120.76	\$	664,180.0
Jackson	Ripley / Jackson Co. HQ	2000				
Jackson	I-77 @ Medina	1300				
Jacks	son County Estimated Total	3300	\$	106.73	\$	352,209.
Pleasants	Belmont	1800				
Pleasa	ants County Estimated Total	1800	\$	86.41	\$	155,538.0
	APD Pennsboro	1900				
D: 11	Ellenboro / Harrisville Substation	2500				
Ritchie	Corridor D @ Nutter Farm	400				
	Smithville Substation	450				
Ritch	nie County Estimated Total	5250	\$	89.35	\$	469,087.
	Lefthand @ WV 36	400				
Roane	Ambler Ridge Substation @ US 119	100				
	Roane County HQ	1600				
Roa	ne County Estimated Total	2100	\$	109.66	\$	230,286.
Wirt	Harrisville Substation	900				
Wii	t County Estimated Total	900	\$	92.38	\$	83,142.
	Parkersburg @ Rt. 95S	5600				
Wood	I-77 @ Parkersburg	4500				
	Corridor D @ Riverhill	2100				
Woo	od County Estimated Total	12200	\$	89.46	\$	1,091,412.
DICTD	ICT 3 ESTIMATED TOTAL	31,050				

Vendor shall complete ATT A by providing a unit price per ton for any or all Counties listed.

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The price that populates in the Extended Price cells will be a result of the County's estimated tonnage multiplied by the Vendor's Price Per Ton bid entry.

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	DIS	TRICT 4				
County	Delivery Site Location	Estimated Tonnage	Price per	Ton	Ex	xtended Price
Doddridge	Greenwood	200				
Doddridge	West Union	800				
Doddri	dge County Estimated Total	1,000	\$	90.82	\$	90,820.00
	Harrison Co. HQ	3500				
Harrison	Saltwell	500				
Harrison	Lost Creek Substation	1000				
	Tunnel Hill Substation	1500				
Harris	son County Estimated Total	6,500	\$ 1	07.50	\$	698,750.00
Marion	Marion Co. HQ	1000				
Marion	Mannington Substation	500				
Mario	on County Estimated Total	1,500	\$ 1	24.90	\$	187,350.00
	Goshen Rd. Substation	2000				
Monongalia	Monongalia Co. HQ	3000				
	Pentress Substation	500				
Monong	galia County Estimated Total	5,500	\$ 1	27.11	\$	699,105.0
	Bruceton Mills Substation	2500				
	Preston Co. HQ	1000				
ъ.	Terra Alta Substation	1000				
Preston	Fellowsville Substation	1000				
	Aurora Substation	1000				
	Cooper's Rock Substation	1500				
Presto	on County Estimated Total	8,000	\$ 1	28.24	\$	1,025,920.00
Taylor	Taylor Co. HQ	1,000				
Taylo	or County Estimated Total	1,000	\$ 1	25.19	\$	125,190.0
DISTRI	ICT 4 ESTIMATED TOTAL	23,500				

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County	Delivery Site Location	Estimated Tonnage	Price per Ton	Extended Price
	Martinsburg Headquarters - 0571 Storage Bldg	1,000		
Berkeley	Tabler Station - 0502 Storage Bldg	1,000		
	Berkeley County Headquarters	700		
	Berkeley County Estimated Total	2,700	NO BID	#VALUE!
	Grant Co. HQ	800		
Grant	Mt. Storm Substation	1,000		
	Corridor H @ Knobley Road	1,600		
	Grant County Estimated Total	3,400	NO BID	#VALUE!
	Hampshire Co. HQ	800		
Hampshire	Capon Bridge Substation	400		
	Slanesville	300		
	Hampshire County Estimated Total	1,500	NO BID	#VALUE!
Hardy	Hardy Co. HQ	800		
	Baker Substation	800		
	Hardy County Estimated Total	1,600	NO BID	#VALUE!
T 00	Jefferson County Headquarters - 0519 Storage Bldg	1,500		
Jefferson	9/340 Expressway Headquarters - 0564 Storage Bldg	1,500		
	Jefferson County Estimated Total	3,000	NO BID	#VALUE!
	Mineral Co. HQ	700		
Mineral	Skyline Substation	600		
Mineral	Short Gap Substation	300		
	District 5 HQ	100		
	Mineral County Estimated Total	1,700	NO BID	#VALUE!
Morean	Morgan Co. HQ	800		
Morgan	Largent Substation	300		
	Morgan County Estimated Total	1,100	NO BID	#VALUE!
	DISTRICT 5 ESTIMATED TOTAL	15,000		

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	DIS	STRICT 6					
County	Delivery Site Location	Estimated Tonnage	Price per Ton		Ex	Extended Price	
Brooke	Brooke County HQ	1800					
Бгооке	US 22 Substation	1800					
Brook	e County Estimated Total	3,600	\$	123.89	\$	446,004.0	
Hancock	Hancock County HQ	2800					
Hanco	ck County Estimated Total	2,800	\$	127.58	\$	357,224.0	
	Marshall Co. HQ	2900					
34 1 11	Lynn Camp Substation	700					
Marshall	Cameron Substation	1550					
	Sand Hill Substation	650					
Marsha	all County Estimated Total	5,800	\$	120.82	\$	700,756.	
Ohio	Ohio Co. HQ	4000					
Onio	I-70 Interstate HQ	3600					
Ohio	County Estimated Total	7,600	\$	121.02	\$	919,752.	
TD 1	Tyler Co. HQ	1100					
Tyler	Centerville Substation	800					
Tyler	County Estimated Total	1,900	\$	91.24	\$	173,356.	
-	Wetzel Co. HQ	1100					
Wetzel	Pine Grove Substation	700					
	Hundred Substation	900					
Wetze	el County Estimated Total	2,700	\$	116.35	\$	314,145.	
DISTRI	CT 6 ESTIMATED TOTAL	24,400					

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Vendor Name	Compass Minerals America Inc.	
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	1	Estimated				
County	Delivery Site Location	Tonnage	Pric	e per Ton	Ex	tended Price
Barbour	Barbour Co. HQ (000111)	1,800				
Багоош	Belington Substation (000113)	1,400				
В	arbour County Estimated Total	3,200	\$	124.39	\$	398,048.0
	Braxton County HQ (000444)	800				
Donaston	Heaters Substation (000431)	600				
Braxton	Coon Knob Substation (000405)	1,400				
	Burnsville Substation (000432)	1,400				
В	raxton County Estimated Total	4,200	\$	124.94	\$	524,748.0
Gilmer	Gilmer County HQ (001110)	1,000				
(Gilmer County Estimated Total	1,000	\$	121.44	\$	121,440.0
	Lewis County HQ (002108)	1,200				
Lewis	APD (Weston Mudlick) (002187)	1,000				
	Lewis County Estimated Total	2,200	\$	123.19	\$	271,018.0
	Clow Lot/Upshur County HQ (004912)	2,400				
Upshur	Tennerton/Upshur County SubHQ (004903)	100				
	Kanawha Head	800				
J	Jpshur County Estimated Total	3,300	\$	124.15	\$	409,695.0
	Cherry Falls	500				
Webster	RT 20/Cowen Substation (005110)	100				
	Webster County HQ @ Bolair	1000				
	Hacker Valley Substation (005120)	500				
v	Vebster County Estimated Total	2,100	\$	130.22	\$	273,462.0
DIS	STRICT 7 ESTIMATED TOTAL	16,000				

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Vendor Name	Compass Minerals America Inc.

County	Delivery Site Location	Estimated Tonnage	Price per Ton	Extended Price	
	Franklin, 220 North	600			
	Judy Gap Substation	500			
Pendleton	Brandywine Stockpile	400			
	Onego Stockpile	400			
	Franklin Rt. 220 South Lot	350			
Pendlet	on County Estimated Total	2,250	NO BID	#VALUE!	
	Pocahontas County HQ	800			
	Seebert Stockpile	600			
Pocahontas	Green Bank Substation	500			
Pocanontas	Bartow Lot	600			
	Snowshoe Stockpile	100			
	Slaty Fork Stockpile	450			
Pocahor	ntas County Estimated Total	3,050	NO BID	#VALUE!	
	Randolph Co. HQ	900			
	Harman Substation	800			
	Coalton Substation	750			
Randolph	Valley Head Substation	600			
	Mill Creek Substation	650			
	Pickens Substation	350			
	Corridor H	900			
Randol	ph County Estimated Total	4,950	\$ 134.64	\$ 666,468	
	Tucker Co. HQ	800			
Tucker	Thomas Substation	600			
	Corrido H - Thomas	900			
Tucke	er County Estimated Total	2,300	\$ 135.24	\$ 311,052	

6621C062

Vendor shall complete ATT A by providing a unit price per ton for any or all Counties listed.

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Vendor Name	Compass Minerals America Inc.	
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	DISTR	RICT 9				
County	Delivery Site Location	Estimated Tonnage	Price per Ton		Extended Price	
	Oak Hill APD	5700				
Fayette	Lookout Substation	0				
	Falls View Substation	0				
Faye	tte County Estimated Total	5700	\$	110.86	\$	631,902.00
	Greenbrier Co. HQ	1500				
Greenbrier	Crawley Substation	2100				
	Hart's Run Substation	1300				
Green	orier County Estimated Total	4900	\$	120.93	\$	592,557.00
Monroe	Monroe Co. HQ	1000				
	Peterstown Substation	700				
Moni	roe County Estimated Total	1700	\$	128.17	\$	217,889.0
	Nicholas Co. HQ	3000				
Nicholas	Curtin Substation	2000				
	Corridor L/Muddlety Substation	3000				
Nicho	olas County Estimated Total	8000	\$	116.79	\$	934,320.0
Summers	Summers Co. HQ	1400				
Sumn	ners County Estimated Total	1400	\$	122.67	\$	171,738.0
	DISTRICT 8 TOTAL	21,700				

6621C062

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Vendor Name Compass Minerals America Inc.

County	Delivery Site Location	Estimated Tonnage	Pric	e per Ton	E	xtended Price
	McDowell County HQ	2,000				
McDowell	Yukon Substation	300				
McDowell	Johnny Cake Substation	500				
	Raysal	500				
McDow	rell County Estimated Total	3,300	\$	133.38	\$	440,154.0
	Mercer County HQ	2,600				
Mercer	Flat Top Substation	300				
	I-77 near Princeton	2,600				
Merce	r County Estimated Total	5,500	\$	126.71	\$	696,905.0
	Raleigh County HQ	8,000				
Raleigh	Bolt Substation	100				
	Bragg Substation	5,000				
Raleig	h County Estimated Total	13,100	\$	116.47	\$	1,525,757.0
	Wyoming County HQ	3,000				
Wyoming	Still Run Substation	1,000				
	Hanover Outpost	100				
Wyomi	ng County Estimated Total	4,100	\$	126.86	\$	520,126.
DISTRIC	CT 10 ESTIMATED TOTAL	26,000				

6621C062

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Vendor Name Compass Minerals America Inc.

	WV PARKWA	YS AUTHORITY	Y			
County	Delivery Site Location	Estimated Tonnage	Pric	e per Ton	E	xtended Price
Kanawha	Chelyan Maintenance	3,000				
Kanawna	Standard Maintenance	2,900				
Kanawl	na County Estimated Total	5,900	\$	96.41	\$	568,819.00
Mercer	Princeton Maintenance	1,500				
Merce	r County Estimated Total	1,500	\$	126.71	\$	190,065.00
D-1-1-1	Beckley Maintenance	6,700				
Raleigh	Ghent Maintenance	4,100				
Raleig	h County Estimated Total	10,800	\$	116.32	\$	1,256,256.00
WV PARK	WAYS ESTIMATED TOTAL	18,200				

ROADWAY SALT - SODIUM CHLORIDE Attachment B - Pricing Pages by Pick-up

Vendor shall complete ATT B by identifying its storage site locations (physical 911 address) and provide a price per ton for roadway salt to be available for pick-up by WVDOH Agencies. Vendor pricing shall include cost of Vendor loading Agency trucks.

Vendor Storage Site Locations	Pick-up Cost per Ton
<u>Hugheston</u>	
2096 Stephen St.	\$90.00
Hugheston, WV 25110	\$90.00
<u>Portsmouth</u>	
Conley River Terminal	\$87.00
5150 Gallia Pike	φο7.00
Portsmouth, OH 45662	
Willow Island	
Select Oilfield Trucking	\$84.00
8598 S. Pleasant Highway	φο4.00
St. Marys, WV 26170	

UNANIMOUS WRITTEN CONSENT OF THE BOARD OF DIRECTORS OF COMPASS MINERALS AMERICA INC.

July 27, 2022

The undersigned, being all of the members of the board of directors of Compass Minerals America Inc., a Delaware corporation (the "Corporation"), hereby consent in writing pursuant to Section 141(f) of the Delaware General Corporation Law to the adoption of the following resolutions without a meeting and waive any notice required in connection therewith.

Authorized Signatories

WHEREAS, from time to time, it is desirable for individuals to sign documents on behalf of the Corporation in connection with sales transactions relating to the Corporation's Highway Sales Department.

NOW, THEREFORE, BE IT RESOLVED, that the following individuals (the "<u>Authorized Signatories</u>") be, and each of them hereby is, authorized, subject to applicable limitations under the Corporation's Delegation of Authority Policy, on behalf of the Corporation, to sign bids, performance bonds and contracts for the sale of sodium chloride and other deicing products, and to sign any other documents which, in his or her opinion, are necessary or desirable in order to effectuate and carry out the foregoing, and all other individuals who were so authorized prior to the date first written above are no longer so authorized:

Kevin S. Crutchfield President and CEO
Lorin Crenshaw Chief Financial Officer
Teresa D. Cook Chief Accounting Officer

Mary L. Frontczak Chief Legal and Administrative Officer and Corporate Secretary

James D. Standen Chief Commercial Officer

James A. Vanderwel Treasurer

Jon Schnieders Vice President, Salt

Bill Crooks
Joel Gerdes
Director, Customer Service
Director, U.S. Highway Sales
Ryan Royer
National Sales Manager
National Sales Manager

Sean Lierz Highway Sales Senior Manager

Harrison Green Highway Sales Manager Austin Welch Highway Sales Manager Jason Fritz Highway Sales Manager Amanda Heady Highway Sales Manager

Matthew Denner Sales Manager Zoe Vantzos Assistant Secretary

General

RESOLVED, that the officers of the Corporation are, and each of them is, hereby authorized, for and on behalf of the Corporation, to execute, deliver, file, acknowledge and record any and all such documents and instruments, and to take or cause to be done any and all such other things as they, or any of them, may deem necessary or desirable to effectuate and carry out the resolutions adopted hereby; and

FURTHER RESOLVED, that any actions previously taken or caused to be taken by any officer of the Corporation or any Authorized Signatory in connection with the matters contemplated by these resolutions, or in carrying out the terms and intentions of the above resolutions, are hereby acknowledged to be duly authorized acts performed on behalf of the Corporation and are hereby ratified, confirmed and adopted as such.

[Signature Page Follows]

all of which together will constitute one and the same instrument.	
losin lunch	

Lorin Crenshaw

IN WITNESS WHEREOF, the undersigned have caused this consent to be duly executed

Zoe A. Vantzos

as of the date first written above. This consent may be executed via .pdf, facsimile or other electronic means and in two or more counterparts, each of which will be deemed an original, and

electronic means and in two or more count all of which together will constitute one an	terparts, each of which will be deemed an original, and ad the same instrument.
	Low Venter
Lorin Crenshaw	Zoe A. Vantzos

as of the date first written above. This consent may be executed via .pdf, facsimile or other

IN WITNESS WHEREOF, the undersigned have caused this consent to be duly executed

Form W-9 (Rev. October 2018) Department of the Treasury Internal Revenue Service

Request for Taxpayer Identification Number and Certification

▶ Go to www.irs.gov/FormW9 for instructions and the latest information.

Give Form to the requester. Do not send to the IRS.

A	# A1 - / - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	the first of the second of the					_				_		
	Name (as shown on your income tax return). Name is required on this lin	e; do not leave this line blank.											
	Compass Minerals America Inc.												
	2 Business name/disregarded entity name, if different from above												
						_							
3e	3 Check appropriate box for federal tax classification of the person whose following seven boxes.	name is entered on line 1. Ch	neck only	one	of the								only to
pag	TOMOWING Severi boxes.								tities 1s on			vidua	als; see
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9 E	single-member LLC					E	xem	pt pa	iyee i	code	(if ar	ny)	
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ρž	Note: Check the appropriate box in the line above for the tax classific	ation of the single-member or	wner. Do	not	check	l _E	xem	ntior	fron	n FΔ	TĊA	rene	orting
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Print or type. See Specific Instructions on page	9900 West 109th St., Suite 100		'						(op.		,		
S	6 City, state, and ZIP code		1										
	Overland Park, KS 66210												
3	7 List account number(s) here (optional)			_			_	_			_	_	
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Par	Taxpayer Identification Number (TIN)			_			-			_	-	_	
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packu	p withholding. For individuals, this is generally your social security r	number (SSN). However, for	ora [30	lai se	7	ſ	I	7	ſ			-
eside	nt alien, sole proprietor, or disregarded entity, see the instructions f	or Part I, later. For other				1	-			-		- 1	
	s, it is your employer identification number (EIN). If you do not have	a number, see How to ge		_		┙	L			l			
TIN, later.						7.7.	-415			-			_
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3. I an	a U.S. citizen or other U.S. person (defined below); and												
4. The	FATCA code(s) entered on this form (if any) indicating that I am exe	empt from FATCA reporting	g is corr	ect.									
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CREDIT INFORMATION

FIRM NAME:

Compass Minerals America Inc.

PHONE:

(913) 344-9100

PRINCIPAL ADDRESS:

9900 W. 109th St., Suite 100 Overland Park, Kansas 66210 FEDERAL ID CODE:

48-1047632

MAILING ADDRESS:

DATE INCORPORATED:

01/21/88

Same

DATE STARTED:

1917

OTHER LOCATIONS:

Chicago, IL; Duluth, MN;

Ogden, UT; Lyons, KS;

Cote Blanche, LA; Buffalo, NY

TYPE OF BUSINESS:

Manufacturing

OFFICERS:

Kevin S. Crutchfield

James D. Standen S. Bradley Griffith

Chief Financial Officer Chief Commercial Officer

President and CEO

George J. Schuller, Jr.

Chief Operations Officer

Mary L. Frontczak

Chief Legal and Administrative Officer and Corporate Secretary

Luis E. Montiel Gary R. Gose

Vice President, Finance and Treasurer Vice President, Tax and Assistant Secretary

Zoe A. Vantzos Kelley A. Schnieders Assistant Secretary Assistant Secretary

TRADE REFERENCES:

Wheeler Machinery Co. 4901 W 2100 S

West Valley City, UT 84120

account-coordinators@wheelercat.com

801-978-1850 (fax)

H&E Equipment LLC 7500 Pecue Lane Baton Rouge, LA 70809

225-756-3602

225-756-3621 (fax) attn. Teresa tlalonde@he-equipment.com

Prince Agri Products Contact: Kathy Irvin 229 Radio Road Quincy, IL 62305 (217) 592-1332 (217) 223-2808 (fax)

Salerno Packaging Inc. c/o Inteplast Credit 9 Peach Tree Hill Road Livingston NJ 07039 973-740-8205 (Fax)

BANK REFERENCES:

JP Morgan Chase

One Chase Plaza, 7th Floor New York, NY 10005

Account No

581776991

Contact:

Credit Reference Group

Tel:

(817) 399-7201

Fax:

(817) 345-3794 or 3795

RESALE / EXEMPTION STATUS:

Exemption certificates provided upon request for items which are incorporated as an ingredient or component part of other tangible personal property to be produced for ultimate sale at retail by manufacturing, processing or fabricating.





Product Data Sheet

Production Location

· Cote Blanche, Louisiana - USA

Product Description

- Rock salt obtained by conventional mining methods, crushed, and screened to size
- No more than 30% of product passes 30-mesh screen

Physical Properties

• Bulk Density: 72 lb/ft3

· Average Particle Size: 0.103"

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 Yellow Prussiate of Soda (YPS) added to a max of 50 ppm

Method of Analysis

- American Society for Testing and Materials Procedures D632 and E534
- All other testing is from Compass Minerals' internal quality control procedures, which are available upon request.

Chemical Analysis								
Constituent	Formula		Typical	Range				
Sodium Chloride	NaCl	(%)	98.44	98.2 - 99.2				
Calcium Sulfate	CaSO₄	(%)	1.27	0.38 - 1.7				
Calcium Chloride	CaCl ₂	(%)	0.03	0 - 0.24				
Magnesium Chloride	MgCl ₂	(%)	0.01	0 - 0.77				
Water Insolubles		(%)	0.12	0 - 0.64				
Moisture		(%)	0.10	0 - 0.54				
Calcium	Ca	ppm	3150	2238 - 4062				
Magnesium	Mg	ppm	63	0 - 198				
Sulfate	SO ₄	(%)	8325	4779 - 11871				

Typical Screen Data									
U.S.S. Mesh	Tyler Mesh	Open (Inches)	Typical % Passing	Range % Passing					
3/4	0.75	0.75	100.0	99 - 100					
1/2	1/2	0.5	99.8	98 - 100					
0.375	0.375	0.375	95.5	83 - 100					
4	4	0.187	77.6	42 - 100					
8	8	0.0937	47.0	4 - 90					
16	14	0.0469	21.4	0 - 45					
30	28	0.0234	9.2	0 - 24					

Packaging									
Description	Old Product Code	New Product Code							
Bulk	7608	613624							
Bulk, Untreated		2932815							

Compass Minerals 9900 West 109th Street – Suite 100 Overland Park, Kansas 66210 Ph: 800-755-7258 Fax: 800-359-7258 This information is based on our present state of knowledge and is intended to provide general notes on the product(s) supplied by us and their uses. The information should not be construed as a specific property promise or guarantee of the product(s). Chemical Analysis and Screen data are based on the previous year's historical data.

Product Data Sheet



9900 West 109th Street - Suite 100 Overland Park, Kansas 66210 Phone 800-755-7258 Fax 800-359-7258

DE-ICING ROCK SALT

PRODUCTION LOCATION

Goderich, Ontario

PRODUCT DESCRIPTION

Rock salt obtained by conventional mining methods, crushed, and screened to size.

Chemical Analysis (99.7% Confidence)			Typical	Range
Sodium Chloride	NaCl	(%)	97.84	96 - 99
Calcium Sulphate	CaSO ₄	(%)	1,57	0.39 - 3
Magnesium Chloride	MgCl ₂	(%)	0.03	0 ~ 0,06
Moisture		(%)	0.12	0.00 - 0.30
Water Insolubles		(%)	0,22	0.09 - 0.36
Calcium	Ca	ppm	4452	2126 - 6778
Magnesium	Mg	ppm	69	l - 161
Sulphate	SO ₄	ppm	10670	5096 - 16244

TYPICAL SCREEN ANALYSIS

Retained and Cumulative (99.7% Confidence)

USS Mesh	Tyler Mesh	Open. (in.)	Ret.	Range %	Cum %	Range
0.500	0.500	0,500	0.3	0-2	0.3	0 - 2
3/8	0.371	0.374	4.0	0 - 8	4.3	0 - 9
4	4	0.187	25.8	17 - 34	30.1	19 - 41
8	8	0.0937	29,7	23 – 35	59.8	50 - 70
16	14	0.0464	18.8	14 - 24	78.6	72 - 85
30	28	0.0236	10.4	0 - 3	89.01	85 - 93
Pan	Pan		10.9	6-15	100.0	

Average Particle Size 0.013 inches (6.37 mesh)

ADMIXTURE

Yellow Prussiate of Soda (YPS) added - If requested by customer

METHOD OF ANALYSIS

American Society for Testing and Materials Procedures D632 and E534. All other testing is from Sifto Canada's internal quality control procedures, which are available upon request.

PHYSICAL PROPERTIES Bulk Density 1220 kg/m³ (76 lbs/ft³)

Product Description and Codes	UPC code	Product Code
Bulk		6615

INERALS

SAFETY DATA SHEET

1. Identification

Product identifier Sodium Chloride

Other means of identification

Synonyms

Sifto Water Care Products, Sifto Safe Step Extreme, Safe Step 3500 Max-Blend, American Backwoods Animal Nutrition Products, American Stockman Animal Nutrition Products, Aspen, Aspen Blue, Sifto Canadian Stockman Animal Nutrition products, Commercial bulk rock salt, IceAway Turbo Plus, Safe Step Pro Series Econo Blend Blue 370, IceAway Rock Salt, IceAway Turbo, IceAway Turbo Blue, MaxiFonte, Natural Salt water care, Sun Soft Water Care Products, ProSoft water care products, QwikSalt, Safe Step 3300 Rock Salt, Safe Step 4300 Dual Blend, Safe Step 4300 Dual Blend Blue, Safe Step 6300 Enviro- Blend, Safe Step Pro Series 550, Safe Step Pro Series 570, Industrial Purity Industrial Products, Safe Step Pro Series 960 Choice Formula, Safe Step Sure Paws, Salt brine, Sifto Salt, Sifto Safe Step Enviro-Guard, Sifto Safe Step Ice Salt, Sifto Safe Step Sure Paws, SureSoft water care products, Thawrox Treated salt, Winter

Storm, Winter Storm Blue, DriRox

Recommended use De-icer. General industrial and water softening/conditioning purposes. Animal Nutrition.

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Compass Minerals America Inc. Company name 9900 West 109th Street, Suite 100 **Address**

> Overland Park KS 66210 **United States**

Telephone 913-344-9200

http://www.compassminerals.com/ Website

techservicesrequests@compassminerals.com E-mail

Compass Minerals Canada Corp **Supplier**

6700 Century Avenue Mississauga L5N 6A4 CA Phone: 1-905-567-0231

1-800-424-9300 **CHEMTREC** 1-613-996-6666 **CANUTEC**

2. Hazard identification

Not classified. Physical hazards **Health hazards** Not classified. **Environmental hazards** Not classified. WHMIS 2015 defined hazards Not classified

Label elements

None. Hazard symbol Signal word None.

Hazard statement The product and/or mixture does not meet the criteria for classification.

Precautionary statement

Observe good industrial hygiene practices. Prevention

Wash hands after handling. Response

Storage Store away from incompatible materials, i.e, strong oxidizing agents (see Section 10) Dispose of waste and residues in accordance with local authority requirements.

Disposal

WHMIS 2015: Health Hazard(s)

not otherwise classified

(HHNOC)

None known

#20427 Page: 1 of 6 Issue date 16-August-2021 WHMIS 2015: Physical Hazard(s) not otherwise classified (PHNOC)

Hazard(s) not otherwise classified (HNOC)

None known.

None known

Supplemental information

Not applicable.

3. Composition/Information on ingredients

Mixture

Ingredients not identified are non-hazardous by GHS criteria.

Composition comments

Non-hazardous by WHMIS/OSHA criteria

4. First-aid measures

Inhalation Avoid breathing dust. If symptoms develop move victim to fresh air. If symptoms persist, obtain

medical attention.

Skin contact Rinse skin with water/shower. Get medical attention if irritation develops and persists.

Eve contact Rinse with water. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. If ingestion of a large amount does occur, seek medical attention.

Most important

symptoms/effects, acute and

delayed

Direct contact with eyes may cause temporary irritation.

Indication of immediate medical attention and special

treatment needed

Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Salt and salt mixtures are non-combustible.

Not applicable.

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters Use appropriate firefighting PPE as a general precaution.

Fire-fighting equipment/instructions

Salt is not combustible and thus is not the material of concern for firefighting equipment or

methods.

Specific methods

In the event of a fire, equipment and methods that are consistent with the combusting material

should be utilized.

General fire hazards

No unusual fire or explosion hazards noted.

Hazardous combustion

products

May include and are not limited to: Oxides of sodium.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Before attempting clean up, refer to hazard data given above. Use broom or dry vacuum to collect material for proper disposal without raising dust. Rinse area with water. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid direct release into waterways and sewers.

7. Handling and storage

Precautions for safe handling Conditions for safe storage, including any incompatibilities

Avoid contact with eyes and skin. Avoid breathing dust. When using, do not eat, drink or smoke. Keep container tightly closed in a cool, dry and well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/Personal protection

Occupational exposure limits

No exposure limits noted for ingredient(s).

Biological limit values

No biological exposure limits noted for the ingredient(s).

#20427 Page: 2 of 6 Issue date 16-August-2021

Appropriate engineering controls

TWA PEL: No specific limits have been established for sodium chloride (a soluble substance). As a guideline, OSHA (United States) has established the following limits which are generally recognized for inert or nuisance dust. Particulates Not Otherwise Regulated (PNOR): 5mg/cu.m. Respirable Dust 8-Hour TWA PEL, 15mg/cu.m. Total Dust 8-Hour TWA PEL.

TWA TLV: No specific limits have been established for sodium chloride (a soluble substance). As a guideline, ACGIH (United States) has established the following limits which are generally recognized for inert or nuisance dust. Particulates (insolubles) Not Otherwise Classified (PNOC): 10mg/cu.m. Inhalable Particulate 8-Hours TWA TLV, 3mg/cu.m. Respirable Particulate TWA TLV.

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Individual protection measures, such as personal protective equipment

Eye/face protection Safety glasses if eye contact is possible.

Skin protection

Rubber gloves. Confirm with a reputable supplier first. Hand protection

Wear suitable protective clothing. Other

Respiratory protection No personal respiratory protective equipment normally required.

Thermal hazards Not applicable.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

9. Physical and chemical properties

Crystalline. **Appearance Physical state** Solid. Solid. **Form** Varies Color Odorless Odor **Odor threshold** Not applicable Hq 6 - 8 (Neutral) Melting point/freezing point Not applicable Initial boiling point and boiling Not applicable

range

Pour point

Not applicable Not applicable

Specific gravity **Partition coefficient** (n-octanol/water)

Not applicable

Not applicable Flash point **Evaporation rate** Not applicable Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits

Flammability limit - lower

Not applicable

Flammability limit - upper

(%)

(%)

Not applicable

Explosive limit - lower (%) Not applicable

Explosive limit - upper (%) Not applicable Vapor pressure Not applicable

Vapor density Not applicable Relative density Not applicable Not available. Solubility(ies) Not applicable **Auto-ignition temperature Decomposition temperature** Not applicable

Viscosity Not applicable

10. Stability and reactivity

Possibility of hazardous

Reactivity

reactions

May react with incompatible materials. Hazardous polymerization does not occur.

#20427 Page: 3 of 6 Issue date 16-August-2021 **Chemical stability** Material is stable under normal conditions.

Contact with incompatible materials, i.e strong oxidizing agents. Conditions to avoid

Acids. Strong oxidizing agents. Incompatible materials

Hazardous decomposition

products

May include and are not limited to: Oxides of sodium.

11. Toxicological information

Information on likely routes of exposure

Ingestion May cause stomach distress, nausea or vomiting. Inhalation No adverse effects due to inhalation are expected. Skin contact No adverse effects due to skin contact are expected. Eye contact Direct contact with eyes may cause temporary irritation.

Symptoms related to the physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Not classified. Acute toxicity

Prolonged skin contact may cause temporary irritation. Skin corrosion/irritation

Not available. **Exposure minutes** Not available. Erythema value Oedema value Not available.

Serious eye damage/eye

irritation

Direct contact with eyes may cause temporary irritation.

Corneal opacity value Not available. Iris lesion value Not available. Not available. Conjunctival reddening

value

Not available. Conjunctival oedema value Not available. **Recover days**

Respiratory or skin sensitization

Respiratory sensitization Not available.

Skin sensitization This product is not expected to cause skin sensitization.

No data available to indicate product or any components present at greater than 0.1% are Mutagenicity

mutagenic or genotoxic.

This product is not considered to be a carcinogen by IARC, ACGIH, NTP or OSHA. Carcinogenicity

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not listed.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Teratogenicity Not classified. Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Not classified. **Aspiration hazard Chronic effects** Not classified.

12. Ecological information

Ecotoxicity Not available.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available. No data available. Mobility in soil Not available. Mobility in general

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, global warming potential) are expected from this component.

13. Disposal considerations

Collect and reclaim or dispose in sealed containers in accordance with applicable regulations. **Disposal instructions**

#20427 Page: 4 of 6 Issue date 16-August-2021 **Local disposal regulations** Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Empty containers or liners may retain some product residues. This material and its container must

be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

14. Transport information

Transport of Dangerous Goods (TDG) Proof of Classification

Classification Method: Classified as per Part 2, Sections 2.1 - 2.8 of the Transportation of Dangerous Goods Regulations. If applicable, the technical name and the classification of the

product will appear below.

U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

15. Regulatory information

Canadian federal regulations

This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Not listed.

Precursor Control Regulations

Not regulated.

WHMIS 2015 Exemptions

Not controlled

US federal regulations

This product is NOT known to be a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not listed

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely

No

hazardous substance

SARA 311/312 Hazardous No

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

US state regulations See below

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

Inventory status

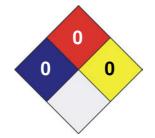
Country(s) or regionInventory nameOn inventory (yes/no)*CanadaDomestic Substances List (DSL)YesCanadaNon-Domestic Substances List (NDSL)NoUnited States & Puerto RicoToxic Substances Control Act (TSCA) InventoryYes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

HEALTH /	0
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	V



Disclaimer

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

Issue date 16-August-2021

Version # 03

Effective date 16-August-2021

Prepared by Dell Tech Laboratories, Ltd. Phone: (519) 858-5021

Further information Not available.

Other information For an updated SDS, please contact the supplier/manufacturer listed on the first page of the

document.