June 24, 2015

Revision Number: 

Purchasing Agent: Vinessa Dudley
Phone#: (801)538-3525
E-mail: vdudley@utah.gov

Item: Secondary contract for road salt type B, C, and E
F.O.B. Little Mountain, Utah

Vendor: 47263I A Compass Minerals Inc
(Formaly) North American Salt Company
9900 W. 109th Street, Suite 600
Overland Park, KS 66210

Remit to: P.O. Box 277043
Atlanta, GA 60684-7043

Internet Homepage: www.nasalt.com

General Contact: Matt Beyers
Cell: 913-387-9278
Fax: 913-338-7945
Email: beyersm@compassminerals.com

Report Contact: Lisa Pruitt
Telephone: 800-323-1641
Email: pruittl@compassminerals.com

Price: See next page
Terms: Net 30 days
Effective Dates: 10/01/2012 through 09/30/2017
Remaining renewal options: None
Price Guarantee Period: 1 year
Minimum Order: 25 tons.
Lead Time: 2 days.

Other Conditions: Primary contractors must be given the first right of refusal. Purchases from
Secondary Contractors must be documented with reasons. This is a contract to provide the State of Utah
Governments, departments, institutions, agencies and political subdivisions (i.e., colleges, school
Districts, counties, cities, etc.) with the goods and/or services described in the bid. The
Contractor agrees to supply the political subdivisions based upon the same terms, conditions and prices.
June 24, 2015

Solicitaton #: TO13002
The administrative fee for this contract is 0.50% and is already included in the contract price.

This contract covers only those items listed in the price schedule. It is the responsibility of the agency to ensure that other items purchased are invoiced separately. State agencies will place orders directly with the vendor creating a PRC in Finet. Agencies will return to the vendor any invoice which reflects incorrect pricing.

Multiple awards have been issued. See the contracts listed below before making a purchase decision.

<table>
<thead>
<tr>
<th>Salt Type</th>
<th>Description</th>
<th>Price per ton</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type B</td>
<td>Type B Sodium Chloride, Non-Caking</td>
<td>$17.75</td>
</tr>
<tr>
<td>Type C</td>
<td>Type C Sodium Chloride, Freeze Resistant</td>
<td>$17.75</td>
</tr>
<tr>
<td>Type D</td>
<td>Type D Sodium Chloride, High Performance Grade</td>
<td></td>
</tr>
<tr>
<td>Type E</td>
<td>Type E Sodium Chloride, Kiln-dried</td>
<td>$43.00</td>
</tr>
<tr>
<td>Freight</td>
<td>Freight* in dollars per U.S. ton per one-way mile - FOB Destination</td>
<td>$0.18</td>
</tr>
</tbody>
</table>

* Freight charge is inclusive of all charges.

Part 1

1.1 Products to be Supplied
A. Sodium Chloride highway deicing materials.

1.2 Payment Procedures
A. Pay for accepted quantities at unit price per ton.

1.3 References
A. AASHTO T 27: Sieve Analysis of Fine and Course Aggregates.
B. AASHTO T 255: Total Evaporable Moisture Content of Aggregate by Drying.
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G. ASTM D1411: Standard Test Method for Water-Soluble Chlorides Present as Admixes in Graded Aggregate Road Mixes.


1.4 Submittals

A. For each shipment, supply bill of lading showing:
   1. Type and grade of material.
   2. Type and amount of additives.
   3. Destination.
   4. Consignee’s name.
   5. Date of shipment.
   6. Truck identification.
   7. Net weight in English units.
   8. Bill of lading number.
   9. Manufacturer.

B. If product submitted is not listed on the Pacific Northwest Snowfighters “Qualified Products List” vendor shall submit the chemical analysis to the address shown below within thirty (30) days of contract award. Properties to be included are shown in 2.A.4.b Table 2. Certified test results dated within twelve months prior to the contract award are acceptable.

C. Submit, to the address shown below within thirty (30) days of contract award, the most recent detailed product specification sheet and Material Safety Data Sheet (MSDS) including the MSDS of any added inhibitor. All documents must be clearly legible. Questions about the bid must be submitted only through Bid Sync. Contacting Lynn Bernhard before the bid closes will disqualify your bid.

D. Submittal Address
   Lynn Bernhard
   Box 148250
   Salt Lake City, UT 84114-8250
   Fax: 801-965-4769
   Email: lynnbernhard@utah.gov
   Phone: 801-965-4094

1.5 Contamination

A. Product shall not be contaminated with other materials.
1.6 Quality Assurance

A. Sampling, supplier-delivered material:
   1. Deliver to specified site.
   2. Notify Engineer when delivery is complete.
   3. Engineer samples by random, one sample for each delivery site per delivery.

B. Sampling F.O.B. plant material:
   1. UDOT or purchasing entity personnel will sample stockpile or belt product.
   2. Region Materials Laboratory shall conduct the tests.

C. Compliance: Supplier pays all UDOT or purchasing entity testing costs of non-complying materials.

D. Price Adjustment, Gradation: Downward 10% price adjustment may be assessed for materials outside specified gradation and/or

E. Price Adjustment, Moisture Content: Downward 10% price adjustment may be assessed for moisture content greater than specified and/or

F. Price Adjustment, General: Products, failing to meet any other specification requirements, are assessed a downward 25% price adjustment or total rejection. Supplier replaces rejected material plus any contaminated material at their cost. Rejected product is removed by the supplier and replaced with compliant product, including handling and transportation charges at no additional cost. Removal means also removing all material contaminated by the non-compliant material. ENGINEER establishes the amount of material contaminated.

Two non-compliant shipments in one contract year may result in contract termination.

Part 2 Product Specifications

2.1 Deicing Salt

A. General:
   1. Moisture Content: Maximum 3.0% by weight using AASHTO T 255.
2. Melting Activity: Active at 5°F ambient temperature. Supplier certifies material meets SHRP H-205.1 for effectiveness.

3. Gradation: Meets the following gradation using AASHTO T 27:

Table 1
Salt Gradation

<table>
<thead>
<tr>
<th>Sieve Size</th>
<th>Percent Passing</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2&quot;</td>
<td>100</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>90-100</td>
</tr>
<tr>
<td># 4</td>
<td>75-100</td>
</tr>
<tr>
<td># 8</td>
<td>40-80</td>
</tr>
<tr>
<td># 16</td>
<td>15-45</td>
</tr>
<tr>
<td># 50</td>
<td>0-10</td>
</tr>
</tbody>
</table>

4. Chemical Constituents:
   a. Do not supply products containing constituents exceeding total concentration limits listed in Table 2. Test according to methodology listed below. Measure base product concentration levels prior to anti-freeze or chemical adulterant addition.
   b. Chemical contaminant limit stated as parts per million (ppm).

Table 2
Allowable Chemical Contaminants

<table>
<thead>
<tr>
<th>Chemical</th>
<th>Concentration (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic</td>
<td>5</td>
</tr>
<tr>
<td>Barium</td>
<td>100</td>
</tr>
<tr>
<td>Cadmium</td>
<td>0.20</td>
</tr>
<tr>
<td>Chromium</td>
<td>1</td>
</tr>
<tr>
<td>Copper</td>
<td>1</td>
</tr>
<tr>
<td>Lead</td>
<td>1</td>
</tr>
<tr>
<td>Mercury</td>
<td>0.05</td>
</tr>
<tr>
<td>Selenium</td>
<td>5</td>
</tr>
<tr>
<td>Zinc</td>
<td>10</td>
</tr>
<tr>
<td>Phosphorus</td>
<td>2500</td>
</tr>
<tr>
<td>Cyanide</td>
<td>0.20</td>
</tr>
</tbody>
</table>
c. Chemical constituent test methods:

1) Total phosphorus as described in “Standard Methods for the Examination of Water and Waste Water”, APHA-AWWA-WEF. Total phosphorus shall be determined upon a 1% test solution. The Total Phosphorus value determined from the 1% solution is the value to be reported without being calculated for the dilution. The test solution should be prepared by placing 10 ml of sample into 500 ml of ASTM D1193 Type II distilled water contained in a 1 L volumetric flask to which 2.5 ml 1 + 1 sulfuric acid has been added. Swirl the contents and make up to 1000 ml with distilled water.

2) Total cyanide as described in “Standard Methods for the Examination of Water and Waste Water”, APHA-AWWA-WEF.

3) Total arsenic, barium, cadmium, chromium, copper, lead, selenium and zinc: Atomic Absorption Spectrophotometry of Plasma Emission Spectroscopy as described in “Standard Methods for the Examination of Water and Waste Water”, APHA-AWA-WEF.

4) Total mercury: Cold Vapor Atomic Absorption Spectrophotometry as described in “Standard Methods for the Examination of Water and Waste Water”, APHA-AWWA-WEF.

B. Type B Sodium Chloride, Non-Caking: Minimum 92% NaCl by weight using ASTM D1411. Yellow Prussiate of Soda (YPS) or other approved chemical is added uniformly to the sodium chloride to produce non-caking material when subjected to the following test:

Material is exposed to two (2) twenty-four (24) hour moisture cycles from 3% minus moisture by weight to 25% plus moisture and back to 3% moisture.

Add pre-approved anti-caking agent prior to stockpiling. Anti-caking agent addition produces a uniform coating throughout stockpile.

C. Type C Sodium Chloride, Freeze Resistant: Minimum 92.0% NaCl by weight using ASTM D1411. Includes anti-caking agent as specified for Class B. Additional approved chemicals are added to depress freezing point of the salt in the stockpile to 0°F. Add anti-freeze chemicals uniformly prior to stockpiling. Submit freeze point depressant chemical additive and method of introduction.
D. **Type D Sodium Chloride, High Performance Grade:** Minimum 92.0% NaCl by weight using ASTM D1411. May include anti-caking agent. Meets Class C Sodium Chloride specification. Measure performance compared to bakers grade sodium chloride. Test at 25° F, 20° F, and 5° F.

1. Melting power exceeds bakers grade salt by 100% total volume melt using SHRP H-205.1 at 5° F.
2. Melting power exceeds bakers grade salt by 50% total volume melt using SHRP H-205-1 at 25° F.
3. Ice penetration exceeds bakers grade sodium chloride by 60% in one hour using SHRP H-205.5 at 20° F.
4. Corrosiveness is 50% less corrosive than bakers grade sodium chloride measured using ASTM B117.
5. Color is discernibly dark, distributed homogeneously throughout entire granule, non-fading, and non-leaching.

E. **Type E Sodium Chloride, Kiln-dried:** Minimum 92.0% NaCl by weight using ASTM D1411. Yellow Prussiate of Soda (YPS) or other approved anti-caking chemical may be added uniformly to the sodium chloride to produce non-caking material. Type E material contains less than 0.5% moisture when shipped.

F. **Products listed** on the current Pacific Northwest Snowfighters “Qualified Products List” [http://www.wsdot.wa.gov/partners/pns/pdf/PNSQPL10-06-06.pdf](http://www.wsdot.wa.gov/partners/pns/pdf/PNSQPL10-06-06.pdf) below are acceptable without further testing or submittals:

1. Type B – PNS Category 8-B
2. Type C – PNS Category 8-B with appropriate freeze-point depressant
3. Type D – PNS Category 8-B with specified low temperature activity
4. Type E – PNS Category 8A-R

G. Testing cost: Supplier shall pay costs incurred in procuring and testing materials found outside specification.

**Part 3 Execution**

3.1 **Delivery**

A. If delivery is requested by UDOT or other purchasing entities, deliver between 8:00 AM and 5:00 PM, Monday through Friday, except state holidays. Notify station supervisor twenty-four hours prior to delivery. Unload material where directed by Engineer or purchasing entity personnel.
1. **Delivery Method One**: Deliver using end-dump trucks only. No trailers.
2. **Delivery Method Two**: Deliver using end-dump trucks, end-dump trucks with pups, or end-dump trailers.
3. **Delivery Method Three**: Deliver using end-dumps, end-dumps with pups, end-dump trailers, side dumps, or belly dumps.
4. **Delivery Method Four**: Load state trucks F. O. B. at supplier’s production facility, stockpile or railhead, or other designated location. Supplier specifies point of delivery in writing if other than normal place of business.

**B. Stockpiles**:

The method for stockpiling sodium chloride is specified for each station. The method will be one of the following:

1. **Method 1**: Stockpile by butting loads - Build stockpiles at designated locations. Butt loads one against the other in such a manner as to occupy as small a total stockpile area as possible. If equipment to keep the stockpile pushed up to cover an area no larger than a stockpile area produced by an end-dump. If Engineer is not satisfied with the stockpiling, supplier reshapes the stockpile to an acceptable configuration. If purchasing entity personnel reshape the stockpile, the cost of reshaping is deducted from the contract.
2. **Method 2**: Stockpile by supplier furnished loader – Build stockpiles at designated locations. Supplier places each load and “bucked up” using a supplier-furnished loader and operator. Stockpiles occupy as little space as possible and are bucked up to a uniform 10-foot height. If Engineer is not satisfied with the stockpiling, supplier reshapes the stockpile to an acceptable configuration. If purchasing entity personnel reshape stockpile, reshaping cost is deducted from the contract.
3. **Method 3**: Stockpile by purchasing entity shaping pile – Build stockpile at designated locations. Purchasing entity shapes stockpile.

**C. Complete delivery of each order placed after October 31st** within two calendar days of order receipt.

**D. Complete delivery of each order placed prior to close-of-business October 31st**, not later than November 16.

**E. Purchasing entity may request the delivery date, location, and type of stockpile method.**

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**Finet Commodity Codes for Agency use only:**
77545 – ROAD MAINTENANCE SALT
90634 – FREIGHT HANDLING; MATERIALS HANDLING

**REVISION HISTORY:**