

## **52.5 SODIUM CHLORIDE TREATED SAND**

### **52.5.1 GENERAL**

The Work consists of mixing sodium chloride with untreated sand or treated (previously with salt) sand to produce a homogeneous mixture of newly treated material. The treated material shall be stockpiled at the Contractor's storage sites for use in winter maintenance activities.

### **52.5.2 MATERIALS**

The Contractor shall be considered the owner of the newly treated material until such time as the material is placed on the roadway for use in winter maintenance activities.

Untreated sand shall be supplied by the Contractor in accordance with Specification 52.7, Supply and Stockpile Sand.

The Contractor shall supply the salt in accordance with Specification 52.8, Supply of Sodium Chloride (Salt).

### **52.5.3 EQUIPMENT**

Mixing equipment shall be capable of uniformly mixing the sand and salt at the specified application rate. The stacking conveyor shall be capable of stacking the treated sand into a conical pile 10 m high.

### **52.5.4 STORAGE SITES**

The Contractor shall supply all required storage sites. The minimum storage capacity for each Contract Maintenance Area will be specified in the Special Provisions. The actual location of the storage site(s) within each CMA shall be determined by the Contractor with the exception that the Department may identify critical areas which must contain a specified number of sites and/or capacity for material. Any critical areas and the associated requirements for storage sites will be identified in the Special Provisions.

### **52.5.5 PROCEDURE**

The quantity of salt treated sand to be produced will be specified in the Work Order.

The Contractor shall provide the Engineer a minimum of 48 hours notice prior to the commencement of the Work.

The Contractor shall mix the treated or untreated sand with salt at the specified application rate to yield a homogeneous mixture, and stockpile the newly treated sand into elongated, conical stockpiles at the

Contractor's storage locations.

The Work shall be performed in a manner which prevents contamination of the stockpile of treated sand with oversized and/or foreign material.

The percentage of salt to be added will be determined by the Contractor and shall be sufficient to ensure that the newly treated sand is suitable for its intended use.

#### **52.5.6 SAMPLING AND TESTING**

The Engineer may sample the completed stockpile to verify salt application rates at any time. The Contractor shall cooperate fully with the Engineer during the sampling and testing procedures.

#### **52.5.7 TIME TO COMPLETE**

The Contractor shall complete the Work within 30 calendar days of the issuance of the Work Order.

#### **52.5.8 MEASUREMENT AND PAYMENT**

Measurement will be made in tonnes of treated sand stockpiled.

Payment will be made at the unit price bid per tonne for "Sodium Chloride Treated Sand - Mix and Stockpile" This payment will be full compensation for excavating the untreated or previously treated sand, excavating and applying the salt to the excavated sand, mixing and stockpiling the newly treated sand, and all labour, materials, equipment, tools, and incidentals necessary to complete the Work.

Payment for the supply of the treated sand material will not be considered to constitute ownership of the material by the Department. The Contractor is considered the owner of the material until such time as the material is placed on the road.

The cost of providing storage sites will be considered included in the unit price bid for "Indirect Operating Costs."

#### **52.5.9 WARRANTY**

There is no warranty period for this Work.