

**ITEM 202.17 04 - CHEMICAL OXYGENATING MATERIAL FOR IN-SITU
REMEDICATION**

DESCRIPTION

This work shall consist of the preparation and application of chemical oxygenating material at locations indicated in the plans and in accordance with the manufacturer's recommended procedures. Chemical oxygenating material is used to treat residual amounts of petroleum hydrocarbon contaminants existing in the groundwater and soil.

MATERIALS

Furnish all materials and equipment to properly prepare and distribute the oxygenating material.

- A. Water §712-01

- B. Chemical Oxygenating Materials
 - 1. RegenOx as manufactured by:
 Regensis
 1011 Calle Sombra
 San Clemente, CA 92673
 Telephone (949) 366-8000

 - 2. EHC-O as manufactured by:
 Adventus Americas, Inc.
 2871 West Forest Road - Suite 2
 Freeport, IL 61032
 Telephone (815) 235-3503

 - 3. PermeOx Plus as manufactured by:
 FMC Corporation
 1735 Market Street
 Philadelphia, PA 19103
 Telephone (215) 299-6000

 - 4. Or equal as approved by the Engineer

- C. Characteristics. The oxygenating material shall have the following characteristics:
 - 1. Capable of releasing oxygen at a steady rate over a minimum period of three (3) months.

 - 2. Not subject to produce high heat exothermic reactions.

 - 3. Non-violent.

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CONSTRUCTION DETAILS

- A. Submittal. At least 30 calendar days prior to commencing the work, the Contractor shall submit information to the Engineer which indicates the name of the product to be used, the application rate, and the proposed application procedure.
- B. Application. Chemical oxygenating material shall be applied in accordance with the manufacturer's recommendations at the locations shown in the plans. The application rate shall be increased above the recommended rate so that the amount applied to the entire site exceeds the manufacturer's recommendation by ten percent (10%). The increased application rate is intended to facilitate the treatment of soils offsite that would not otherwise be treated. Chemical oxygenating material may need to be applied in one or more applications, depending on the Contractor's method of excavation and staging of work.
- C. Material Handling. The Contractor shall implement all necessary precautions as recommended by the manufacturer for the safe handling and dispensing of the product so that worker and community safety are maintained.

METHOD OF MEASUREMENT

This work shall be measured as the number of kilograms of dry chemical oxygenating material satisfactorily applied.

BASIS OF PAYMENT

The unit price bid per kilogram shall include the cost of furnishing all labor, materials and equipment necessary to satisfactorily complete the work.