

Hanson, David L - DNR

From: Hanson, David L - DNR
Sent: Friday, August 2, 2024 1:50 PM
To: Gorte, Brandon
Cc: jrechnitz@twentylake.com; Hanson, David L - DNR
Subject: RE: DNR Technical Assistance Request/Soil Management Plan, Former Babcock and Wilcox Property, 4101 W. Burnham St., West Milwaukee, WI BRRTS #06-41-197753

Brandon,

The DNR approves the use of the CETCO bentonite chips for the proposed geotechnical borings at the Former Babcock and Wilcox property.

Please contact me if you have any questions.

Thank you,

David

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David L. Hanson

he/him/his

Redevelopment Specialist – Remediation and Redevelopment Program

Wisconsin Department of Natural Resources

1027 W. Saint Paul Avenue

Milwaukee, WI 53233

Cell Phone: (414) 639-4156

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david.hanson@wisconsin.gov



dnr.wi.gov



From: Gorte, Brandon <bgorte@partneresi.com>

Sent: Thursday, August 1, 2024 4:05 PM

To: Hanson, David L - DNR <David.Hanson@wisconsin.gov>

Cc: jrechnitz@twentylake.com

Subject: RE: DNR Technical Assistance Request/Soil Management Plan, Former Babcock and Wilcox Property, 4101 W. Burnham St., West Milwaukee, WI BRRTS #06-41-197753

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David,

Please find attached the technical data sheet for the bentonite chips to be used to seal the geotechnical borings at the Former Babcock and Wilcox property, as the WDNR requested. These will be used to fill the borings to the ground surface.

Thank you,

Brandon M. Gorte, PE
Senior Project Manager – Environmental Solutions

450 E 22nd Street, #200
Lombard, IL 60148
(312) 802-8090 – Mobile
bgorte@partneresi.com – Email

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From: Hanson, David L - DNR <David.Hanson@wisconsin.gov>

Sent: Wednesday, July 31, 2024 9:25 AM

To: jrechnitz@twentylake.com

Cc: Gorte, Brandon <bgorte@partneresi.com>; Hanson, David L - DNR <David.Hanson@wisconsin.gov>

Subject: DNR Technical Assistance Request/Soil Management Plan, Former Babcock and Wilcox Property, 4101 W. Burnham St., West Milwaukee, WI BRRTS #06-41-197753

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Mr. Rechnitz,

Attached is the technical assistance letter you requested. Please contact me if you have any questions.

Thank you,

David

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David L. Hanson

he/him/his

Redevelopment Specialist – Remediation and Redevelopment Program

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CETCO® COARSE CHIPS PUREGOLD® MEDIUM CHIPS

HOLE ABANDONMENT MATERIAL



Certified to
NSF/ANSI/CAN 60

DESCRIPTION

CETCO COARSE CHIPS are natural sodium bentonite screened to 3/8 inch (0.95 cm) to 3/4 inch (1.90 cm) in size. PUREGOLD MEDIUM CHIPS are natural sodium bentonite screened to 1/4 inch (0.64 cm) to 3/8 inch (0.95 cm) in size. CETCO COARSE CHIPS and PUREGOLD MEDIUM CHIPS are certified to NSF/ANSI/CAN Standard 60, Drinking Water Treatment Chemicals - Health Effects.

RECOMMENDED USE

Sealing shallow boreholes and seismic shot holes; decommissioning wells; providing an interface between gravel pack and bentonite or cement grout.

CHARACTERISTICS

- Chemically stable. Results from TCLP Priority Pollutants analysis are below RCRA limits for hazardous constituents
- Prevent infiltration of surface contamination
- Provide a high-solids bentonite seal
- Provide a permanent, flexible seal

MIXING AND APPLICATION

Because chips may develop fines during transporting and handling, bagged material should be screened of fines before placement. Pour chips slowly downhole to prevent bridging or binding. In unsaturated conditions, water should be added at 2 ft intervals to ensure adequate hydration.

APPLICATION MATRIX

Hole Diameter (in)	2	4	6	8	10	12	14
Approximate Pounds of Chips per Linear Foot	1.5	6	14	24	37.5	54	73

Hole Diameter (cm)	5	10	15	20	25.5	30.5	35.5
Approximate Kilograms of Chips per Linear Meter	2.2	9	21	36	37.5	80	108



BULK DENSITY

CETCO COARSE CHIPS	67.30 lbs/ft ³ (1078.15 kg/m ³) (1817.10 lbs/yd ³)
PUREGOLD MEDIUM CHIPS	69.25 lbs/ft ³ (1109.28 kg/m ³) (1869.75 lbs/yd ³)

PACKAGING

~50 lb (~22.7 kg) bag, 48 per pallet. All pallets are plastic-wrapped.

North America: 847.851.1800 | 800.527.9948 | www.CETCO.com

UPDATED: FEBRUARY 2023

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