

1316 COUNTY-CITY BUILDING
227 W. JEFFERSON BOULEVARD
SOUTH BEND, INDIANA 46601-1830



PHONE 574/ 235-9251
FAX 574/ 235-9171

CITY OF SOUTH BEND JAMES MUELLER, MAYOR
BOARD OF PUBLIC WORKS

October 8, 2024

Mr. Andrew Rupprecht
Premier Magnesia, LLC
75 Giles Place
Waynesville, NC 28786
arupprecht@premiermagnesia.com

RE: Contract

Dear Mr. Rupprecht:

At its October 8, 2024 meeting, the Board of Public Works approved the above referenced contract for Odor Control Pilot Study Test in an amount Not to Exceed \$30,000. Enclosed please find the original of the contract for your signature. Please sign and return the original contract to horvath@southbendin.gov.

Enclosed please find a copy of the contract for your records.

If you have any further questions, please call this office at (574) 235-9251.

Sincerely,

/s/ Theresa Heffner

Theresa Heffner, Clerk

Enclosures
TH/hh

BOARD OF PUBLIC WORKS
CITY OF SOUTH BEND, INDIANA
PUBLIC WORKS CONTRACT

This Agreement is made and entered into this 8th Day of October 2024, by and between Premier Magnesia, LLC., and the Board of Public Works (the "Board").

| | |
|-------------------------|---|
| <u>PROJECT NO.</u> | |
| <u>DESCRIPTION:</u> | <u>CONTRACT ODOR CONTROL PILOT STUDY TEST</u> |
| <u>COMPLETION DATE:</u> | <u>SEE SPECIFICATIONS</u> |
| <u>AMOUNT:</u> | <u>NOT TO EXCEED \$30,000</u> |
| <u>FUNDING:</u> | <u>PR-00036435</u> |

Each of the Parties, by signing below, represents and warrants to the other Party that he/she/it has the authority to bind the named person or entity to this Agreement.

CITY OF SOUTH BEND, INDIANA
BOARD OF PUBLIC WORKS



Elizabeth A. Maradik, President



Gary A. Gilot, Member



Murray L. Miller, Member



Joseph R. Molnar, Vice President



Briana Micou, Member



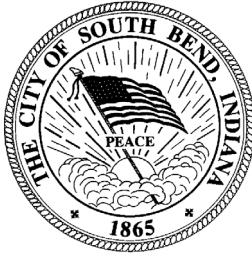
Attest: Theresa M. Heffner, Clerk

Date: October 8, 2024

PREMIER MAGNESIA, LLC

Printed Name

Signature



INTER-OFFICE MEMORANDUM

DEPARTMENT OF PUBLIC WORKS DIVISION OF ENVIRONMENTAL SERVICES

TO: Members of the Board of Public Works
Michael Schmidt, Assistant City Attorney Public Works
Theresa Heffner, Clerk of the Board of Public Works

FROM: Jacob M. Klosinski, P.E., Assistant City Engineer

SUBJECT: Agenda Request – Professional Services
Odor Control Study – Pilot Test
(PROJ00000434, PR-00036435)

DATE: September 30, 2024

The Division of Engineering and Division of Wastewater recommend the Board of Public Works approval of an Odor Control Study – Pilot Test scope of work to be performed by Premier Magnesia from mid-October 2024 through late October 2024.

Background

In 2014, the City of South Bend Division of Environmental Services installed a calcium nitrate (Bioxide) system at the Geyer Ditch Pump Station and Sage Road Pump Station to reduce hydrogen sulfide levels, control sulfides, and provide odor control. The two pump stations are part of the IN Tek and IN Kote Sanitary Trunk Sewers that were built between 1988 – 1992 that carry residential and industrial wastewater from New Carlisle, IN.

After a decade of using calcium nitrate, the effectiveness of the product has decreased, and we have documented an increase in hydrogen sulfide levels through odolog sampling. This poses three key concerns (1) exposure of personnel to hydrogen sulfide, (2) odor issues, and (3) deterioration of pipes, structures, and equipment due to prolonged exposure to hydrogen sulfide.

Follow-up sampling and dosage adjustments in 2023 and 2024 provided enough data for the City to investigate different products that may be better suited for the chemical addition application for this sanitary sewer system.

To provide a better understanding of alternate products and confirm their effectiveness, City Engineering and Wastewater have been working with Webster Environmental Associates (consultant) and Premier Magnesia (a Product Supplier) to develop an alternative pilot test for testing a different chemical called Magnesium Hydroxide for hydrogen sulfide reduction in the IN Tek Sanitary Trunk Sewer.

Premier Magnesia has provided a unit price quotation to provide temporary equipment and conduct the pilot test over a two-week trial period beginning in mid-October through the end of October 2024 to dose the sanitary trunk sewer with magnesium hydroxide. The goal of this pilot test is to collect dosage data to determine whether magnesium hydroxide is effective for hydrogen sulfide reduction in the IN Tek Sanitary Trunk Sewer.

During the study, odologs (metering equipment capable of collecting air quality concentration data over a period of time) will be deployed in the IN Tek sanitary trunk sewer to test for hydrogen sulfide concentrations upstream and downstream of the dosage point.

By the end of the study, the collected data collection should provide the City with enough information to assess whether Magnesium Hydroxide is an effective alternative product to calcium nitrate. The success of the pilot test will be evaluated over a few parameters including, but not limited to, dosing rates, a comparison of annual costs for chemical dosing alternative products, equipment evaluation, operation and maintenance between the existing and alternative product, and power usage.

This pilot test may drive the basis of design for a new chemical feed system for the IN Tek Sanitary Trunk Sewer. A similar evaluation may be considered for the IN Kote Sanitary Trunk Sewer in the future, but a dosage study for that sewer would be premature given the increased flows expected by the developments at the Indiana Enterprise Center area.

Funding for this project was provided through Sewage Works Capital – Wastewater Capital, Account 642-06-605-514-442005. For questions regarding the subject Agenda Request, contact Jacob M. Klosinski (Ext. 9496) at the Division of Engineering.



Premier Magnesia Trial Price Quote

To: City of South Bend
 3113 Riverside Drive
 South Bend, IN 46628
 Jacob, Klosinski-
 jklosins@southbendin.gov

September 24, 2024

From: Andrew Rupprecht
 Premier Magnesia, LLC
 arupprecht@premiermagnesia.com

Re: THIOGUARD® Pricing – City of South Bend – Thioguard, Magnesium Hydroxide Odor Control 14-day Trial Proposal

| | |
|--|--|
| Product Estimated Usage: | THIOGUARD® (Magnesium Hydroxide Tote Slurry) Total delivered gallons range: 825-900 gallons |
| Estimated Slurry FOB Terminal: | \$ 3.39 per gallon of Slurry FOB Aspers, PA |
| Estimated Freight/FSC: | \$4.80 per gallon delivery including fuel service charge |
| Trial Equipment/Support/Installation: | Equipment/Installation, \$495/day: (3) 330/275 gallon totes, (1) Pump: Watson Marlow Bredel 10, (1) Standard Control panel- <u>120V 30 Amp</u> (remote if available, at no additional charge), generator to provide power for pump and panel, tubing and fittings from tank to pump. Installation by Premier Application Advisor and/or Field Tech. Application Support, \$4840: includes two calendar weeks, 3 business days on site, as deemed by Premier, per week, of a Premier Application Advisor for equipment operation and dosage optimization. |
| Tax: | Must provide Premier Magnesia with Tax Exemption Certificate |
| Terminal Location: | Aspers, PA |
| Payment Terms: | Net 30 Days |

- **Freight is added to the slurry FOB pricing for total delivered cost. Freight rates are good faith *estimates* for a reasonable period (about 30 days) around this quote and are not guaranteed. All freight rates will be confirmed at the time of carrier booking. Fuel service charges fluctuate and are based on current market at the time of quotation.**
- Premier is not liable for any site costs resulting from delay of shipment(s). Products ship via third-party common carrier freight. No returns of excess quantity material without prior agreement or incident.
- Premier disclaims any express or implied warranty against infringement of any patent(s), pertaining to patents not held by or licensed to Premier, which may cover the use of the purchased product(s) or material(s) in conjunction with other materials, products, or applications.
- Client provides all required utilities, to the best of their ability. To be confirmed before equipment delivery.
- Client will fuel and provide fuel for the generator and provide 120V 15A outlet for air compressor mixing system (12.5 A).
- To their best, client will provide equipment monitoring in the absence of the Premier Advisor or Technician.
- Further documentation regarding trial planning and coordination between client and Premier will augment these terms.

Signature to this quote signifies that you have read and understand the statements above.

Name (Print): _____

Signature: _____ Pos

Please return signed document via email to: arupprecht@pre

CITY OF SOUTH BEND, INDIANA
 BOARD OF PUBLIC WORKS


 Elizabeth A. Maradik, President


 Joseph R. Molnar, Vice President


 Gary A. Gilot, Member


 Briana Micou, Member


 Murray L. Miller, Member


 Attest: Theresa M. Heffner, Clerk

Date: **October 8, 2024**

**BOARD OF PUBLIC WORKS
AGENDA ITEM REVIEW REQUEST FORM**

Date: 09-30-2024
 Name: Jacob M. Klosinski Department of Public Works – Engineering Division
 BPW Date: 10-08-2024 Phone Extension: 9496

Required Prior to Submittal to Board

BPW Attorney Attorney Name Michael Schmidt
 Dept. Attorney Attorney Name **Michael Schmidt**
 Purchasing **Mickey Lovy / Ron O'Connor**

Check the Appropriate Item Type – Required for All Submissions

- | | | |
|--|--|---|
| <input type="checkbox"/> Professional Services Agreement | <input checked="" type="checkbox"/> Contract | <input type="checkbox"/> Proposal |
| <input type="checkbox"/> Open Market Contract | <input type="checkbox"/> Amendment/Addendum | <input type="checkbox"/> Special Purchase, QPA |
| <input type="checkbox"/> Bid Opening | <input type="checkbox"/> Bid Award | <input type="checkbox"/> Req. to Advertise <input type="checkbox"/> Title Sheet |
| <input type="checkbox"/> Quote Opening | <input type="checkbox"/> Quote Award | <input type="checkbox"/> Reject Bids/Quotes |
| <input type="checkbox"/> Proposal Opening | <input type="checkbox"/> C/O & PCA No. _____ | <input type="checkbox"/> PCA |
| <input type="checkbox"/> Chg. Order, No. _____ | <input type="checkbox"/> Traffic Control | <input type="checkbox"/> Resolution |
| <input type="checkbox"/> Other: _____ | | <input type="checkbox"/> Ease./Encroach |

Required Information

Company or Vendor Name Premier Magnesia (V-)
)New Vendor Yes If Yes, Approved by Purchasing
 No
 MBE/WBE Contractor MBE Completed E-Verify Form Attached Yes
 WBE No
 Project Name IN TEK Sanitary Trunk Sewer – Odor Control Pilot Test
 Project Number PROJ00000434 / PR-00036435
 Funding Source Sewage Works – Wastewater Capital
 Account No. 642-06-605-514-442005 Sewage Works Capital
 Amount \$30,000.00 (Not to Exceed)
 Terms of Contract Base Rate and Unit Pricing (Based on Quantity Usage)
 Special Contract Provisions Refer to Contract Document for unit pricing structure
 Purpose/Description The Division of Engineering and Division of Wastewater recommends the Board of Public Works approval of an Odor Control Pilot Study Test contract with Premier Magnesia to provide equipment and magnesium hydroxide for an alternative chemical analysis for hydrogen sulfide reduction in the IN Tek Sanitary Trunk Sewer. The Pilot Test will be a 2-week trial evaluation.

For Change Orders Only

Amount of Increase \$ _____
 Decrease (\$ _____)
 Previous Amount \$ _____
 Increase _____ %
 Current Percent of Change: Decrease (_____ %)
 New Amount \$ _____
 Increase _____ %
 Total Percent of Change: Decrease (_____ %)
 Time Extension Amount: _____
 New Completion Date: _____