

**AGREEMENT FOR THE SUPPLY OF
POLYMER CHEMICAL FOR WASTEWATER DEPT. FY2025-2026
PROJECT# 11617**

THIS AGREEMENT FOR THE CHEMICAL PROCUREMENT AND SUPPLY OF POLYMER is made this 2nd Day of September, 2025, and entered into by and between the City of Meridian, a municipal corporation organized under the laws of the State of Idaho, hereinafter referred to as "City", 33 East Broadway Avenue, Meridian, Idaho 83642, Polydyne, Inc., hereinafter referred to as "Supplier", whose business address is 1 Chemical Plant Rd., Riceboro, GA 31323.

INTRODUCTION

WHEREAS, the City has a need for Polymer Chemical For Wastewater Dept. FY2025-2026 per established specifications; and

WHEREAS, the Supplier is specially trained, experienced and competent to provide/supply and has agreed to supply such chemical;

NOW, THEREFORE, in consideration of the mutual promises, covenants, terms and conditions hereinafter contained, the parties agree as follows:

TERMS AND CONDITIONS

1. Services, Supplies, Equipment or Chemicals Specifications & Requirements:

1.1 Supplier shall supply the services, supplies, equipment or chemicals to the City upon execution of this Agreement and receipt of the City's written notice to proceed, all items, and comply in all respects, as specified in the Invitation for Bids titled "POLYMER CHEMICAL FOR WASTEWATER DEPT. FY2025-2026" and Suppliers bid dated by which by this reference are incorporated herein, together with all addendums issued.

1.2 The Supplier shall provide all equipment and services under this Agreement consistent with the requirements and standards established by applicable federal, state and City laws, ordinances, regulations and resolutions and the UCC. The Supplier represents and warrants that it will perform its work in accordance with generally accepted industry standards and practices for the profession or professions that are used in performance of this Agreement and that are in effect at the time of performance of this Agreement.

2. **Consideration**

2.1 The Supplier shall be compensated on a Fixed Price basis as provided in Exhibit B "Agreement Pricing Schedule" hereto and by reference made a part hereof, for the Not-To-Exceed amount of **\$1.38 Per Pound** whereas \$140.35 = 101.70 pounds= 11.689655 gallons of Polymer effectively treats 1 ton of wastewater as provided in Attachment A "Polydyne Full-Scale Trial Results" hereto and by reference made a part hereof.

2.2 The Supplier shall provide the City with a detailed invoice upon delivery of all services, supplies, equipment or chemicals, which the City will pay within 30 days of receipt of a correct invoice and approval by the City Project Manager. The City will not withhold any Federal or State income taxes or Social Security Tax from any payment made by City to Supplier under the terms and conditions of this Agreement. Payment of all taxes and other assessments on such sums is the sole responsibility of Supplier.

2.3 Except as expressly provided in this Agreement, Supplier shall not be entitled to receive from the City any additional consideration, compensation, salary, wages, or other type of remuneration for services rendered under this Agreement including, but not limited to, meals, lodging, transportation, drawings, renderings or mockups. Specifically, Supplier shall not be entitled by virtue of this Agreement to consideration in the form of overtime, health insurance benefits, retirement benefits, paid holidays or other paid leaves of absence of any type or kind whatsoever.

3. **Invoices**

Invoices shall be rendered in duplicate and shall include: (1) Purchase Order number; (2) pricing; (3) quantity; (4) description; (5) any sales taxes or use taxes as separate items, giving permit number authorizing collection of use taxes; (6) point of shipment; (7) method and class of shipment; (8) complete routing of shipment; and (9) whether transportation expense has been prepaid. Seller/Contractor/Contractor agrees to make a separate invoice for each order and shipment. Unless otherwise expressly provided in the Purchase Order, all taxes, duties, tolls, fees, import charges, or other governmental exactions shall be deemed included in the purchase price of the supplies and services and the City shall have no liability to pay Seller/Contractor/Contractor or any third party any amount in excess of the specified purchase price. City of Meridian, a local governmental entity of the State of Idaho, is exempt from any Federal Manufacturer's Excise Tax under the provision of Section 4221(a)(4) of the Internal Revenue Code. All invoices shall exclude such excise tax. All invoices shall be sent to the following address:

City of Meridian, Accounts Payable, 33. East Broadway Ave., Meridian, Idaho 83642.

4. **Term:**

4.1 This agreement shall become effective upon execution by both parties, and shall expire upon on September 30, 2026 or unless sooner terminated as provided below.

4.2 The City reserves the right to extend the agreement for up to four (4) additional one-year periods if mutually agreeable to both parties. Any and all extensions must be documented in writing and be executed by both parties.

4.3 Should Supplier default in the performance of this Agreement or materially breach any of its provisions, City, at City's option, may terminate this Agreement by giving written notification to Supplier.

4.4 Should City fail to pay Supplier all or any part of the compensation set forth in Exhibit B of this Agreement on the date due, Supplier, at the Supplier's option, may terminate this Agreement if the failure is not remedied by the City within thirty (30) days from the date payment is due.

5. **Termination:**

If, through any cause, Supplier, its officers, employees, or agents fails to fulfill in a timely and proper manner its obligations under this Agreement, violates any of the covenants, agreements, or stipulations of this Agreement, falsifies any record or document required to be prepared under this agreement, engages in fraud, dishonesty, or any other act of misconduct in the performance of this contract, or if the City determines that termination of this Agreement is in the best interest of City, the City shall thereupon have the right to terminate this Agreement by giving written notice to Supplier of such termination and specifying the effective date thereof at least fifteen (15) days before the effective date of such termination. Supplier may terminate this Agreement at any time by giving at least Sixty (60) Days notice to City.

Notwithstanding the above, Supplier shall not be relieved of liability to the City for damages sustained by the City by virtue of any breach of this Agreement by Supplier, and the City may withhold any payments to Supplier for the purposes of set-off until such time as the exact amount of damages due the City from Supplier is determined. This provision shall survive the termination of this agreement and shall not relieve Supplier of its liability to the City for damages.

6. **Independent Supplier:**

6.1 In all matters pertaining to this agreement, Supplier shall be acting as an independent Supplier, and neither Supplier nor any officer, employee or agent of Supplier will be deemed an employee of City. Except as expressly provided in Exhibit A, Supplier has no authority or responsibility to exercise any rights or power vested in the City and therefore has no authority to bind

or incur any obligation on behalf of the City. The selection and designation of the personnel of the City in the performance of this agreement shall be made by the City.

6.2 Supplier, its agents, officers, and employees are and at all times during the term of this Agreement shall represent and conduct themselves as independent Suppliers and not as employees of the City.

6.3 Supplier shall determine the method, details and means of performing the work and services to be provided by Supplier under this Agreement. Supplier shall be responsible to City only for the requirements and results specified in this Agreement and, except as expressly provided in this Agreement, shall not be subjected to City's control with respect to the physical action or activities of Supplier in fulfillment of this Agreement. If in the performance of this Agreement any third persons are employed by Supplier, such persons shall be entirely and exclusively under the direction and supervision and control of the Supplier.

7. Indemnification and Insurance:

- a. Supplier shall indemnify and save and hold harmless City from and for any and all losses, claims, actions, judgments for damages, or injury to persons or property and losses and expenses and other costs including litigation costs and attorney's fees, arising out of, resulting from, or in connection with the performance of this Agreement by the Supplier, its servants, agents, officers, employees, guests, and business invitees, and not caused by or arising out of the tortuous conduct of City or its employees. Supplier shall maintain, and specifically agrees that it will maintain, throughout the term of this Agreement, liability insurance, in which the City shall be named an additional insured, except Workers Compensation Insurance, in the minimum amounts as follow: General Liability One Million Dollars (\$1,000,000) per incident or occurrence, Automobile Liability Insurance One Million Dollars (\$1,000,000) per incident or occurrence and Workers' Compensation Insurance, in the statutory limits as required by law. The limits of insurance shall not be deemed a limitation of the covenants to indemnify and save and hold harmless City; and if City becomes liable for an amount in excess of the insurance limits, herein provided, Supplier covenants and agrees to indemnify and save and hold harmless City from and for all such losses, claims, actions, or judgments for damages or injury to persons or property and other costs, including litigation costs and attorneys' fees, arising out of, resulting from , or in connection with the performance of this Agreement by the Supplier or Supplier's officers, employs, agents, representatives or sub-suppliers and resulting in or attributable to personal injury, death, or damage or destruction to tangible or intangible property, including use of. Supplier shall provide City with a Certificate of Insurance, or other proof of insurance evidencing Supplier's compliance with the requirements of this paragraph and file such proof of insurance with the City at least ten (10) days prior to the date Supplier begins performance of its obligations under this Agreement. In the event the insurance minimums are changed, Supplier shall

immediately submit proof of compliance with the changed limits. Evidence of all insurance shall be submitted to the City Purchasing Agent with a copy to Meridian City Accounting, 33 East Broadway Avenue, Meridian, Idaho 83642.

7.2 Any deductibles, self-insured retention, or named insureds must be declared in writing to the City.

7.3 To the extent of the indemnity in this contract, Supplier's Insurance coverage shall be primary insurance regarding the City's elected officers, officials, employees and volunteers. Any insurance or self-insurance maintained by the City or the City's elected officers, officials, employees and volunteers shall be excess of the Supplier's insurance and shall not contribute with Supplier's insurance except as to the extent of City's negligence.

- b. The Supplier's insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability.

7.4 All insurance coverages for Suppliers subs shall be subject to all of the insurance and indemnity requirements stated herein.

7.5 The limits of insurance described herein shall not limit the liability of the Supplier and Supplier's agents, representatives, employees or subcontractors.

7.6 The limits of insurance described herein shall not limit the liability of the Contractor and Contractor's agents, representatives, employees or subcontractors.

9. **Warranty:** In addition to any warranty required in the specifications, all equipment, coatings, valves, controls, and other components provided under this agreement shall be guaranteed for two (2) years against defects in workmanship and materials from the notice of acceptance.
10. **Notices:** Any and all notices required to be given by either of the parties hereto, unless otherwise stated in this agreement, shall be in writing and be deemed communicated when mailed in the United States mail, certified, return receipt requested, addressed as follows:

CITY:

City of Meridian
Procurement Manager
33 E Broadway Ave.
Meridian, ID 83642
Ph. (208)-489-0417

SUPPLIER:

Polydyne, Inc.
Attn: Boyd Stanley / Charles Scott
1 Chemical Plant Rd.
Riceboro, GA 31323
Phone: 800-848-7659 / 360-931-5566
Email: stanley@polydyneinc.com
charless@polydyneinc.com

Either party may change their address for the purpose of this paragraph by giving written notice of such change to the other in the manner herein provided.

11. **Attorney Fees:** Should any litigation be commenced between the parties hereto concerning this Agreement, the prevailing party shall be entitled, in addition to any other relief as may be granted, to court costs and reasonable attorneys' fees as determined by a Court of competent jurisdiction. This provision shall be deemed to be a separate contract between the parties and shall survive any default, termination or forfeiture of this Agreement.
12. **Time is of the Essence:** The parties hereto acknowledge and agree that time is strictly of the essence with respect to each and every term, condition and provision hereof, and that the failure to timely perform any of the obligations hereunder shall constitute a breach of, and a default under, this Agreement by the party so failing to perform.
13. **Assignment:** It is expressly agreed and understood by the parties hereto, that Supplier shall not have the right to assign, transfer, hypothecate or sell any of its rights under this Agreement except upon the prior express written consent of City.
14. **Discrimination Prohibited:** In performing the Work required herein, Supplier shall not unlawfully discriminate in violation of any federal, state or local law, rule or regulation against any person on the basis of race, color, religion, sex, national origin or ancestry, age or disability.
15. **Reports and Information:**
 - 15.1 At such times and in such forms as the City may require, there shall be furnished to the City such statements, records, reports, data and information as the City may request pertaining to matters covered by this Agreement.
 - 15.2 Supplier shall maintain all writings, documents and records prepared or compiled in connection with the performance of this Agreement for a minimum of four (4) years from the termination or completion of this or Agreement. This includes any handwriting, typewriting, printing, photo static, photographic and every other means of recording upon any tangible thing, any form of communication or representation including letters, words, pictures, sounds or symbols or any combination thereof.
16. **Audits and Inspections:** Subject to applicable laws respecting the protection of privacy and the City's requirement to comply with the Idaho Public Records Act, at any time during normal business hours and as often as the City may deem necessary, there shall be made available to the City for examination all of Supplier's records with respect to all matters covered by this Agreement. Supplier shall permit the City to audit, examine, and make excerpts or transcripts from such records, and to make audits of all

contracts, invoices, materials, payrolls, records of personnel, conditions of employment and other data relating to all matters covered by this Agreement.

17. **Publication, Reproduction and Use of Material:** No material produced in whole or in part under this Agreement shall be subject to copyright in the United States or in any other country. The City shall have unrestricted authority to publish, disclose and otherwise use, in whole or in part, any reports, data or other materials prepared under this Agreement.
18. **Compliance with Laws:** In performing the scope of work required hereunder, Supplier shall comply with all applicable laws, ordinances, and codes of Federal, State, and local governments.

This Agreement shall be governed by and construed and enforced in accordance with the laws of the State of Idaho, and the ordinances of the City of Meridian.

Certifications.

Pursuant to Idaho Code §§ 67-2359 and 67-2346, Contractor hereby certifies:

- A. That Supplier is not currently owned or operated by the government of China and will not, for the duration of this Contract, be owned or operated by the government of China.
 - B. That Supplier is not currently engaged in, and will not for the duration of the Contract engage in, a boycott of goods or services from Israel or territories under its control.
 - C. Supplier certifies that: (i) as of the Effective Date, it is not engaged in a "Boycott," as defined in Idaho Code §67-2347A, of any individual or company because that individual or company engages in or supports (a) the exploration, production, utilization, transportation, sale, or manufacture of fossil fuel-based energy, timber, minerals, hydroelectric power, nuclear energy, or agriculture, or (b) the manufacture, distribution, sale, or use of any "Firearm," as defined in Idaho Code §18-3302(2)(d); and (ii) it will not engage in any such boycott during the Term.
19. **Changes:** The City may, from time to time, request changes in the Scope of Work to be performed hereunder. Such changes, including any increase or decrease in the amount of Supplier's compensation, which are mutually agreed upon by and between the City and Supplier, shall be incorporated in

written amendments which shall be executed with the same formalities as this Agreement.

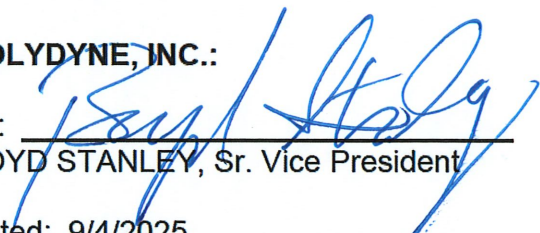
20. **Construction and Severability:** If any part of this Agreement is held to be invalid or unenforceable, such holding will not affect the validity or enforceability of any other part of this Agreement so long as the remainder of the Agreement is reasonably capable of completion.
21. **Waiver of Default:** Waiver of default by either party to this Agreement shall not be deemed to be waiver of any subsequent default. Waiver or breach of any provision of this Agreement shall not be deemed to be a waiver of any other or subsequent breach, and shall not be construed to be a modification of the terms of this Agreement unless this Agreement is modified as provided above.
22. **Advice of Attorney:** Each party warrants and represents that in executing this Agreement. It has received independent legal advice from its attorney's or the opportunity to seek such advice.
23. **Entire Agreement:** This Agreement contains the entire agreement of the parties and supersedes any and all other agreements or understandings, oral or written, whether previous to the execution hereof or contemporaneous herewith.
24. **Order of Precedence:** The order or precedence shall be the contract agreement, the Invitation for Bid document, then the winning bidders submitted bid document.
25. **Applicable Law:** This Agreement shall be governed by and construed and enforced in accordance with the laws of the State of Idaho, and the ordinances of the City of Meridian.
26. **Approval Required:** This Agreement shall not become effective or binding until approved by the City of Meridian.

CITY OF MERIDIAN:

By: _____
Keith Watts, Procurement Manager

Dated: _____

POLYDYNE, INC.:

By: _____
BOYD STANLEY, Sr. Vice President

Dated: 9/4/2025

EXHIBIT A

SUPPLY SPECIFICATIONS & REQUIREMENTS SCOPE OF WORK

The City of Meridian referred to herein as the City, will accept bids for a one-year supply (extendable for up to five additional years) of liquid emulsion polymer that will be used to condition municipal wastewater sludge for dewatering in an Andritz D5LC30CHP High Solids Decanter Centrifuge. The polymer vendor awarded the Contract is referred to herein as the Bidder.

Polymer furnished shall meet the specified terms and conditions herein:

Polymer

- a. The polymer shall be the following, or an approved equal in quality and performance:

Minimum Sludge Cake Solids: 17.0%

Minimum Solids Recovery: 98.5% Note: **Centrate Total Suspended Solids Concentration must be less than 450 mg/L.**

- b. The successful bidder shall demonstrate compliance with the performance requirements herein.
- c. Polymer must dissolve easily and completely in potable water within 10 minutes, in concentrations up to 0.5% by weight.
- d. The polymer price shall be "per pound- polymer" delivered. The bid price shall also include the cost of container return services.
- e. Polymer concentration shall not be less than 33%. The bid must also contain the weight of polymer per US gallon. This information will be used to calculate cost based on liquid quantity of polymer.

Delivery of Polymer

- f. Polymer shall be delivered by the Bidder to the City of Meridian Wastewater Treatment Facility:

3401 N Ten Mile Road, Meridian, Idaho 83646.

All shipping and delivery charges shall be paid by the Bidder and shall be included in the bid price. The City of Meridian intends to place orders on a bi-monthly basis. It is estimated that each order will be enough to achieve approximately 350 dry tons of biosolids.

- g. The bid shall be based on shipments of approximately IBC Totes-Bin. The estimated annual amount of polymer required is 220,000 pounds estimated to be equivalent to the amount needed to achieve 1,500 to 1,800 dry tons of biosolids annually or per year.
- h. In no event shall polymer delivery take longer than **five business days** from the winning bidder's receipt of the City's polymer order.
- i. Deliveries shall be made between 7:00 a.m. and 5:00 p.m., Monday through Friday, excluding holidays.
- j. The winning bidder shall provide assistance in optimizing the settings on the City's polymer blending/mixing units when required. The bid prices shall include the cost of up to three evaluations at the City's treatment plant during the year.
- k. The winning bidder shall promptly provide personnel necessary to assist in the proper application of their product.
- l. The prices in the winning bidder's bid shall be fixed for each twelve-month term of the Contract.
- m. Polymer shall perform as stated in the Invitation for Bid during the entire term of the Contract and failure to comply will be just cause for City's termination of the Contract.
- n. Substitute products will not be allowed unless they can be demonstrated to perform as equal to or better than the specified polymers, before delivery and accepted by the City, at the specified performance requirements, for the same or lower real cost.
- o. Due to the large number of polymers available and the complexity of applications, the City reserves the right to purchase test quantities of polymer to continue testing (beyond the full-scale test) for the most economical application and delay award until a clear winner is determined.
- p. The City reserves the right to discontinue the use of the dewatering centrifuge (and associated polymer purchase) and to employ alternate methods of sludge conditioning, dewatering, and/or disposal.
- q. The City reserves the right to purchase an alternate polymer from the winning bidder, should an alternate polymer better meet the City's needs.
- r. It is the Bidder's responsibility to visit the site and conduct on-site (bench-scale) testing of products to select the best product for evaluation. The Bidder will also be responsible for knowing the type of polymer make-up equipment at the site to ensure their product is compatible with the existing feed equipment.

Each vendor will be allowed one day of bench testing at the Wastewater Treatment Plant (WWTP) prior to full-scale trials.

Contact the WW Superintendent (Warren Hudson) by email to arrange for bench testing at whudson@meridiancity.org.

All bench-scale testing will begin on July 21, 2025, and must be completed by August 1, 2025.

Vendors will be responsible for providing their own bench test equipment and staff. City will only provide sludge for testing.

- s. After the bid opening the City will contact bidders to arrange for the full-scale testing of the proposed polymers. The Bidder will supply, at no charge to the City, a one-day supply (8 hours of run-time) of polymer to treat approximately 60,000 gallons of sludge for a full-scale performance evaluation. The polymer supplied for full-scale testing must be the polymer that is used in determining the bid price.

Full-scale testing will begin on August 6, 2025, and conclude by August 15, 2025. It is the responsibility of all Bidders submitting bids to have products on-site for testing purposes no later than 4:30 pm on August 4, 2025. Any product received after this date may not be considered.

Bidders will be allowed one day (no more than 8 hours) to set up and test their polymer during full-scale operation. **No adjustments will be allowed to the Centrifuge other than the polymer dose during the set-up/testing period. Following the maximum 8-hour set-up/testing period, or when the bidder declares they are ready, full-scale evaluation shall begin (this may be the next day). The centrifuge shall be started in automatic mode and ran for a period of not less than three hours. City staff will measure polymer usage and centrifuge performance hourly for at least three hours. During the evaluation period, NO adjustments to any equipment will be allowed. Any adjustments to any equipment during this period may be deemed immediate grounds for dismissal of the product.**

Only products that meet or exceed the minimum requirements set forth in this document, as demonstrated in the full-scale performance evaluations and specified herein, will be considered for award. Due to the time, it will take to complete the full-scale testing, the award of the supply contract may not occur until 4-6 weeks after bid opening.

- t. By submitting a product for testing, the Bidder acknowledges that it is able to supply this product, at the same performance quality and manufacturing specifications, at the volume necessary to fulfill the terms/length of the annual contract. Lab samples will be checked against future deliveries of product to ensure performance-based standards. The Bidder will be required to produce, at the City's request, retained samples of product batches delivered. An SDS sheet must accompany each shipment and a certificate of analysis stating the total solids, bulk viscosity, and dilute viscosity. The City reserves the right to conduct lab analysis on each load delivered to verify the certificate of analysis.
- u. In the event the Bidder discontinues manufacturing the product supplied, or changes the manufacturing process, it is the Bidder's responsibility to inform the City of these

changes and to supply, at no additional cost to the City, a product with equal or superior performance than the product previously supplied at no more than the annual contract price.

- v. In the event of a drop in performance without a notification of change by the Bidder and with no significant changes in plant process, the sludge/polymer interaction will be documented and compared with the original sludge/polymer interaction. It will be the Bidder's responsibility to remove any polymer whose performance or specifications are deemed substandard by the City. Failure to do so may result in termination of the annual contract.

EXHIBIT B

AGREEMENT PRICING SCHEDULE				
Agreement includes the supply/delivery of Polymer Chemical For Wastewater Dept. FY2025-2026 including any incidentals as required for this chemical.				
NOT-TO-EXCEED AMOUNT.....\$1.38 Per Pound				
Agreement is a not to exceed amount. Line item pricing below will be used for invoice verification and any additional increases or decreases in work requested by City. The City will pay the Supplier based on actual quantities of each item of work in accordance with the agreement documents.				
Item No.	Description	Estimated Quantity	UOM	Price/Lb
1	Polymer Chemical	220,000	LB	\$1.38

>> Treatment Doseage: \$101.70 pounds = 11.689655 gallons of Polymer effectively treats 1 ton of wastewater.

ATTACHMENT A



LIQUID EMULSION POLYMER FULL SCALE TESTING

Company: POLYDYNE Price per pound of polymer: 1.38 ^{PER LB} ~~PER 35~~ ^{VERIFY W/ FINANCE} Pounds per gallon: 8.7 ^{PER REP}

Representative Present?: Y N Date of test: 8/15/2025

Representative Name: Charles Scott Signature: [Signature]

DRAWDOWN READINGS

An average of 3 drawdown readings will be used to determine the number of pounds of polymer required to achieve 1 ton of dry biosolids. The following calculations were used to determine the time it takes to treat 1 ton of biosolids:

1% Solids = 10,000 ppm; % Solids = 1.5% = 15,000 ppm; Centrifuge = 100 gpm
(Flow)(15,000 ppm)(8.34 lbs/gal) = 2,000 lbs; Flow = 0.016 MGD = 16,000 gal/day;
16,000 gal/day ÷ 100 gal/min = 160 minutes to treat 1 ton of biosolids.

Drawdown readings will be taken at 1 hour, 2 hours, and 3 hours after start of the testing. The readings will be taken using a 1000 mL calibration column. Drawdown time will be 1 minute.

Test start time: 0800

Polymer Pump Settings: 4.40 ^{✓✓} (Stroke) 9ph (Speed) Verification of settings: 1hr 2hr 3hr

HOOR 1:

Initial Column Reading: 0 mL/min } Polymer flow rate = Final - Initial = 280 mL/min
Final Column Reading: 280 mL/min }

Polymer flow rate: 280 mL/min x 160 min. = 44800 mL ÷ 3785.41 gal/mL = 11.83 gallons
11.83 gallons x 8.7 lbs/gallon = 102.92 lbs of polymer

HOOR 2:

Initial Column Reading: 0 mL/min } Polymer flow rate = Final - Initial = 280 mL/min
Final Column Reading: 280 mL/min }

Polymer flow rate: 280 mL/min x 160 min. = 44800 mL ÷ 3785.41 gal/mL = 11.83 gallons
11.83 gallons x 8.7 lbs/gallon = 102.92 lbs of polymer

HOOR 3:

Initial Column Reading: 0 mL/min } Polymer flow rate = Final - Initial = 270 mL/min
Final Column Reading: 270 mL/min }

Polymer flow rate: 270 mL/min x 160 min. = 43200 mL ÷ 3785.41 gal/mL = 11.41 gallons
11.41 gallons x 8.7 lbs/gallon = 99.27 lbs of polymer

Average pounds of polymer used: 101.70 (lbs) x \$ 1.38 (\$/lb) = \$ 140.35 to treat 1 ton

Poly unit #1



LIQUID EMULSION POLYMER - BID
FULL SCALE TESTING

Company: Polydyne Price per pound of polymer: 1.38 Pounds per gallon: 8.7

LAB SAMPLE RESULTS

Cake and centrate samples will be taken at 1 hour, 2 hours, and 3 hours after the start of the testing. Samples will be analyzed for sludge cake percent total solids and centrate TSS. The average of each analysis will be taken and must meet the following:

Minimum Sludge Cake Total Solids:
Maximum Centrate TSS:

17%

100 mg/L

450 mg/L

update, torque 52
RPM 3050

HOUR 1:

Sludge Cake % Total Solids: 20.4 (%)
Centrate TSS: 173 (mg/L)

HOUR 2:

Sludge Cake % Total Solids: 20.5 (%)
Centrate TSS: 157 (mg/L)

HOUR 3:

Sludge Cake % Total Solids: 20.5 (%)
Centrate TSS: 148 (mg/L)

AVERAGE SLUDGE CAKE TOTAL SOLIDS: 20.5 (%)

AVERAGE CENTRATE TSS: 159 (mg/L)

Meets requirements? ☒ Y ☐ N

City of Meridian Representative: Deana Smith Signature: Deana Smith

*Lab test results will be available 24 hours after completion of full scale testing. Results of tests will be kept confidential from other bidders until all bidders have completed full scale testing.