

Purolite Arsenic Media Maintenance

Regen of 200 cu ft	\$ 65,476.84
Allowance for 27 cu ft (13.5%)	\$ 11,002.23
Estiamted Taxes	<u>\$ 7,647.91</u>
Total	<u><u>\$ 84,126.98</u></u>



Purolite®

January 25, 2021

Scott Ketchmark
City of El Mirage
12000 W. Peoria Avenue
El Mirage, Arizona 85335

Subject: Resin Replacement Service at 14955 N. Dysart Treatment Plant

Dear Scott,

Purolite is pleased to present our proposal for your Ion Exchange Resin requirements. Purolite has 40 years' experience in Ion Exchange technologies and can provide the following benefits:

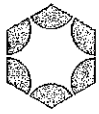
- **Turn-key Service.** Purolite will provide on-site ion exchange resin services; resin extraction, exhausted resin transport, resin regeneration or disposal, resin loading, technical support and a full line of quality Ion Exchange Resins.
- **Responsible Management of your waste.** Purolite can provide the stability, resources and experience to address your long-term requirements for all your Ion Exchange applications.

Scope of Work

Purolite will perform the following scope of work for the removal of spent resin, regeneration, return of your exhausted non-hazardous ArsenXnp Resin and any replacement with FerrIX A33E for resin lost during regeneration.

The time frame is estimated at four to five weeks from receipt of your Purchase Order, agreed upon terms and conditions and extraction of media.

- Pricing is \$327.38 per cubic foot (\$65,476.84) based on 200 cu ft of regenerated media.
 - If virgin FerrIX A33E resin is required to top off the resin bed, it will be charged at \$407.49/cu ft.
1. Labor and equipment to remove, transport and regenerate 200 cubic feet of exhausted non-hazardous ArsenXnp Resin.
 2. Inspect Vessel



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3. Labor, equipment, transport and materials to install 200 cubic feet of your regenerated ArsenXnp Resin.
4. Regeneration Service

Defined Scope of Work

- Bypass units lock out/tag out. City of El Mirage
- **Drain vessel of all water 2-3 days before scheduled service City of El Mirage**
- Vacuum exhausted resin into super sacks.
- Inspect screens, tank lining and gaskets Purolite
- Power wash and clean interior walls of vessels
- Transport exhausted resin to authorized regeneration facility
- Regenerate ArsenXnp Resin and transport back to City of El Mirage Water Treatment Facility
- Disinfect vessel City of El Mirage
- Fill vessels with your regenerated ArsenXnp Resin
- Rinse and backwash regenerated resin
- Ensure site is clean and free of service equipment and debris
- Water Sampling for ADEQ is the responsibility of City of El Mirage
- Remove locks and return units to service City of El Mirage

Additional Services and Information:

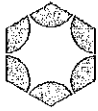
- Regeneration pricing is based on non-hazardous exhausted resin
- Confined space labor to enter vessels for power washing is included
- Virgin Ferrix Resin is available for topping off the vessel at (initial fill was 225 cubic feet) Pricing is \$407.49 per cubic foot plus tax. Freight is included.

City of El Mirage to provide the following:

- Labor to break up solidified filter media, if any
- Materials and labor to repair internals of filters.

Typical Site Criteria/Conditions:

1. Ability to get service equipment within short distance of vessels to be serviced.
2. Resin transport truck to have close access to the vessel(s) to be serviced.
3. Exhausted resin is to be free flowing. Should the exhausted resin bed be heavily calcified and must be broken up manually for removal, extra labor charges may be required.



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4. Vessel(s) must be drained of all water 2-3 days prior to scheduled service. Additional charges will apply for standby time or remobilization should vessel(s) be full of water when service crew and equipment arrive for scheduled service.
5. Availability of electricity, potable water, lighting, ladders or scaffolding to access the vessel and drainage.
6. Service is normally performed during normal operating hours of Monday Friday work week. If additional time is required, overtime is charged and customer is advised of number of hours and charges prior to work performed.

Clarifications

- Please note that the above price **does not** include any applicable taxes or permits. As this is a service project, typically there is no sales tax on regenerations services. **Pricing is firm through May 31, 2021.**
- Super sacks will be unlined to allow drainage of excess water.
- BACT and Arsenic sampling and testing is not included in this bid. Purolite can assist or provide this service once the sampling protocol for the City of El Mirage is defined. Typically, the owner performs this service.
- Pricing is based on two (2) one day trips. One day to extract and one day to install the regenerated media. Additional trips required by the City of El Mirage due to delays or issues not in the control of Purolite may require additional charges for mobilization of personnel and equipment.

By using Purolite, City of El Mirage will benefit from higher quality products, efficient service, lower overall costs and proper management of your long-term treatment needs.

Should you have questions regarding any of the above, please do not hesitate to call me. Purolite looks forward to working with City of El Mirage in meeting your project goals.

Sincerely,

Cathy Swanson
Western Regional Sales Manager
714.292.2531

PRODUCT DATA SHEET

Purolite® FerrIX™ A33E

Polystyrenic Macroporous, Chloride
form

PRINCIPAL APPLICATIONS

- Arsenic Removal

ADVANTAGES

- Superior bead strength
- Low pressure drop

REGULATORY APPROVALS

- Certified by the WQA to NSF/ANSI-61 Standard
- OSHA 29CFR 1910.1200 Certified
- Water Regulations Advisory Scheme Approved

TYPICAL PACKAGING

- 1 ft³ Sack
- 25 L Sack
- 5 ft³ Drum (Fiber)
- 1 m³ Supersack
- 42 ft³ Supersack

TYPICAL PHYSICAL & CHEMICAL CHARACTERISTICS:

Polymer Structure	Polystyrene crosslinked with divinylbenzene
Appearance	Brown spherical beads
Ionic Form	Cl⁻ form
SBC	0.5 - 4 %
Particle Size Range	300 - 1200 µm
< 300 µm (max.)	1 %
Uniformity Coefficient (max.)	1.7
Shipping Weight (approx.)	790 - 820 g/L (49.4 - 51.2 lb/ft³)
Temperature Limit	80 °C (176.0 °F)
pH limits, Operating	4.5 - 8.5



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Scott Ketchmark
City of El Mirage
12000 W. Peoria Avenue
El Mirage, Arizona 85335

Date: January 25, 2021

Subject: ArsenXnp Resin Regeneration Service (RAM100)
14955 N. Dysart Treatment Plant

To: Scott Ketchmark

This letter is to confirm that the Regeneration Services for ArsenXnp, arsenic removal media, is a sole source service provided by Purolite exclusively. No division of Purolite, nor any other company, provides a similar or competing service which is NSF/ANSI 61 certified. This service must be purchased directly by institutions from Purolite at the address listed below. There are no agents or dealers authorized to represent or duplicate this NSF/ANSI 61 certified regeneration service. To our knowledge, there is no other Certified Regeneration Service available for purchase that would serve the same purpose.

If you desire additional information, don't hesitate to contact me any time or visit our website at www.purolite.com

Thank you very much,

A handwritten signature in black ink, appearing to read "Cathy Swanson".

Cathy Swanson
Groundwater Remediation Specialist | West Sales Manager
714-292-2531