

Xylem and Evoqua <u>are now one</u>. As we combine our companies under the name Xylem, our customers and partners will begin to see changes in how we look, including our logo and email address. Though our appearance may change, we are committed to continuing to provide you the same great service, now with even more world-class solutions.





Confidentiality Statement

This document and all information contained herein are the property of Evoqua Water Technologies LLC (Evoqua). The design concepts and information contained herein are proprietary to Evoqua and are submitted in confidence. They are not transferable and must be used only for the purpose for which the document is expressly loaned. They must not be disclosed, reproduced, loaned or used in any other manner without the express written consent of Evoqua. In no event shall they be used in any manner detrimental to the interest of Evoqua. All patent rights are reserved. Upon the demand of Evoqua, this document, along with all copies or extracts, and all related notes and analyses, must be returned to Evoqua or destroyed, as instructed by Evoqua. Acceptance of the delivery of this document constitutes agreement to these terms and conditions.

©2024 Evoqua Water Technologies





8/27/2025

Richard Armendariz
CITY OF Fullerton Well 10

Proposal Number: 674994 08.27.2025.R0

Project Location: OCWD – Fullerton Well 10, Fullerton, CA

Re: Dual Media Pressure Vessels – Fullerton Well 10

Dear Richard Armendariz,

Evoqua Water Technologies (Evoqua) is pleased to submit this proposal in reference to the subject project. Throughout the years Evoqua and Fullerton via OCWD have partnered at your Phase 1 PFAS Treatment Plant initiative, and we wish to continue that legacy by addressing the dynamic challenges Fullerton faces in Phase Two of treating PFAS.

The following proposal is for (2) HP[®]1220CIX systems in stock or near completion at our Thomasville, GA manufacturing facility. Our goal is to continue to partner with OCWD in a mutually beneficial agreement that would provide cost savings to OCWD and its partner cities and provide Evoqua with a commitment for these assets.

Evoqua offers a range of activated carbon and ion exchange resin products, equipment and services to remove organic and inorganic contaminants from groundwater, surface and process water, wastewater and air/vapor streams. Our state-of-the-art laboratories are staffed with full-time, trained technicians who use ASTM, AWWA and internally developed standard test methods to fully characterize both virgin and spent resin and activated carbons.

Evoqua as a Lifecycle PFAS solution provider. This is what you get when you choose Evoqua:

- 1. Overall Thought leadership We will bring our expertise to the table and work alongside your technical staff.
 - a. Evoqua is actively engaged in policy making on Capitol Hill
 - b. PFAS Expertise Evoqua partners with USEPA (destruction workshops, research); active on AWWA Standards Committees
 - c. OCWD focus Evoqua's ongoing service contract and local teams focus on providing service and support including troubleshooting, modeling, and onsite repairs.
- 2. Piloting Assisted Megan Plumlee and the Jacobs team to build and implement your past, current, and future pilots.
- 3. Innovator Evoqua is constantly looking ahead to find better solutions and we vow to share those with OCWD as they come available.
- 4. Comprehensive Service including Immediate and Long-term solutions The PFAS market is dynamic, and Evoqua can provide immediate response vessels, onsite technicians and operators, support engineers, and options for turnkey and long-term service contracts to maximize savings and provide predictable monthly expenditures. As the regulatory space changes and evolves we can help reduce the strain on your resources.





Your project will be locally supported by our La Mirada and Los Angeles, CA service centers. In addition to the equipment proposal, we want to provide a service offering that would further our relationship as OCWD's partner. There are numerous ways to reduce the equipment costs via value engineering and our easily modified equipment design. We have provided costing based on what was requested; however, we can provide costs saving solutions upon request.

Thank you for this opportunity to provide this firm quotation. Please contact me at 714-262-1560 if you have questions or if we may be of further assistance. We look forward to working with you on this project.

Patricia Tinnerino Sales Engineer – Municipal Services Xylem | Evoqua Water Technologies



1.0 SCOPE OF SUPPLY

1.1 Design Basis

The dual media pressure vessel systems, HP®1220CIX-SYS systems, can use either granular activated carbon (GAC), ion exchange resin (IX), or other granular media of similar size distribution. Each HP1220CIX-SYS system will provide reduction of PFAS contaminants. Each vessel is designed to hold 424 cf of PSR2-Plus media or 700 cf of GAC. The Empty Bed Contract Time (EBCT) is 10 minutes at 525 gpm for GAC treatment and 2 minutes at 1,600 gpm for IX treatment.

This equipment will be used in a potable application. While equipment provided will be typical for use in drinking water applications, the *system* itself is not NSF-certified for use in potable applications. All wetted components will either be NSF-certified, manufactured from NSF-certified materials, or materials typically used in drinking water applications. Please refer to Attachment 3. Clarifications and Exceptions for further details.

Source: OCWD RFQ 2/28/2020 and Evoqua

Flow Info	rmation
Maximum Operating Pressure	125 psig
Maximum Operational Flow Rate per System	525 gpm for GAC or 1600 gpm for IX
Operational Schedule	24/7

Evoqua Feed Water	Quality Informati	on*
Constituent	Units	Feed Water Design Basis
Chloride (CI)	ppm	< 250
Sulfate	ppm	< 250
TDS	ppm	< 500
рН	Standard Unit	6.5 to 8.5
Temperature range	°F	50 - 90

^{*} Note: Exceeding the above levels, and/or presence of unusual or anomalous constituents in the feed water, not identified in the water analysis provided as summarized above, may void equipment warranty.

PLEASE NOTE THAT THE FOREGOING DESIGN CRITERIA TABLE IS ONLY AN ESTIMATE AND NO THROUGHPUT OR PERFORMANCE WARRANTY OR GUARANTEE IS PROVIDED WITH THIS OFFERING EITHER EXPRESSLY OR IMPLICITLY. EVOQUA DISCLAIMS ANY AND ALL EXPRESS OR IMPLIED WARRANTIES OR GUARANTEES RELATED TO PERFORMANCE, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE. EVOQUA RESERVES THE RIGHT TO UPDATE THIS PROPOSAL TO INCLUDE ANY SUCH PERFORMANCE GUARANTEES OR OTHER MODIFICATIONS TO THE PROPOSED DESIGN.



1.2 Treatment Narrative

For treatment of the client's water, Evoqua recommends the use of two (2) HP® 1220CIX-SYS liquidphase adsorption systems for the removal of PFAS. Evoqua's offer includes two (2) existing units that have already been fabricated, coated, and assembled. We also have additional units are still in development and can be used here if needed.

Please refer to the attached HP1220CIX-SYS System Specification Summary, HP1220CIX Process Flow Diagram (PFD), HP1220CIX General Assembly Drawing, and the Technical Clarifications and Exceptions listed in Attachment 3. for further details.

Each HP1220CIX SYS System will be comprised of two 12' diameter ASME code vessels designed for 125 psig at 150 °F. A 10" diameter, 4-tier epoxy-lined carbon steel piping manifold is provided for series (lead/lag) or parallel operation with separate connections for influent, effluent, backwash in, and backwash discharge that will tie into interconnecting piping provided by others. Each vessel utilizes a removable 4-point inlet distributor (removed for GAC and replaced with single-point distributor) and septa underdrain. Please note that no interconnecting piping to tie multiple systems together is included.

Influent flow will enter at the top of the vessel and the effluent flow will exit through an external septa underdrain. A pressure relief valve for each vessel is provided on the process piping just prior to the vessel it is protecting. A media trap (basket strainer) is located at the effluent from each vessel.

The pressure drop across an empty adsorber at 525 gpm is estimated to be ~0.5 psi and at 1,600 gpm will be ~4 psi. Please note this assumes the water is at 55 °F. Please refer to pressure drop curves attached. Curves for empty vessel and with media are included.

Please note that no media supply is included within this proposal.

1.3 Major Components

Major mechanical components include:

- Two (2) Evoqua HP® 1220CIX-SYS systems, each comprising:
 - o Two (2) Evoqua HP1220CIX liquid-phase adsorbers
 - ASME stamped
 - 12' diameter × 16'4" tall steel vessel
 - Maximum design pressure 125 psig
 - 10" influent and effluent connections
 - One (1) 24" flanged side manway
 - One (1) 14" × 18" elliptical top manway
 - Epoxy-coated carbon steel vessel
 - 316 SS internal piping
 - 150 °F maximum operating temperature
 - o One (1) epoxy-lined 10" carbon steel manifold
 - Four-tier with connections for inlet, outlet, backwash in, and backwash out
 - Butterfly valves with adjustable parallel / series vessel configuration (Bray 30 Series)
 - Two (2) differential pressure transmitters (EndressHauser)
 - Two (2) pressure relief valves (ClaVal)
 - Four (4) expansion joints



CITY OF Fullerton Well 10 CONFIDENTIAL Firm Proposal 674994_08.27.2025.R0 August 27, 2025

- Initial Media Fill:
 - o 389 cf in each lead vessel, 353 cf in each lag vessel (1484 CF total)
 - Amberlite PSR2 Plus resin
 - o Includes preconditioning of resin and all labor and materials to load

1.4 Service Offering

The following services are included within the scope of this proposal:

- Installation supervision of all equipment outlined in this proposal, start-up, training and functional testing. This is limited to one (1) technician per day for two (2) 8-hour days onsite.
- Upon request, any additional service offering can be quoted on a time and materials basis at a per diem rate plus any applicable travel fee(s).

1.5 Provided Documentation

This proposal includes standard operation and maintenance manuals and submittals for informational purposes only:

- All documentation subject to associated lead time as noted in Section 4 below.
- Provided documentation will be generated in Evoqua's standard format. Evoqua stipulates that
 no shop drawings will be furnished to any party until an agreed and signed contract or agreement
 is in place.
- Evoqua's offering includes no submittal revisions; any revisions are subject to associated price and lead time.
- Evoqua's offer includes standard operations and maintenance manuals for informational purposes only. Evoqua will furnish one (1) set of final O&M manuals on paper and one (1) electronic set. Additional sets can be purchased for additional cost.



2.0 COMMERCIAL DETAILS

2.1 Pricing

	Qty	Unit Price	Extended Price
Completed 12' Dual Media Systems Purchase			
Two (2) HP1220CIX-SYS & Commissioning Services	2	\$390,000.00	\$780,000.00
Initial Fill Resin - PSR2 Plus (389 cf lead bed / 353 cf/lag bed)	1484	\$329.04	\$488,288.20
TOTAL			\$1,268,288.20

Storage Fee	Storage Fee:
After completion, the vessels can be stored free of charge for up to 30 days, for a maximum of four vessels. After 30 days, a storage fee of \$250 per vessel may be assessed for each 30-day calendar period or portion thereof after the initial 30 days that the vessels have not shipped. \$3100 per system for freight and offloading to the storage location.	Waived
Evoqua will provide storage at no charge for up to 36 mont	hs



2.2 Definitions

- Equipment Purchase includes the following items:
 - o Freight to OCWD Fullerton Well 10, Fullerton, CA; and
 - Supply of equipment, site services, and documentation as described in Sections 1.3 through 1.5 above.
- **Freight** is provided and included in the above pricing. All equipment is shipped FOB Shipping Point, Freight Prepaid.

2.3 Provisions

- Taxes: Pricing excludes all applicable taxes.
- **Permits:** Permits and fees are excluded from price.
- **Utilities:** All utilities will be supplied by Customer to Evoqua at no fee.
- **Disposal:** Assumes disposal of any materials necessary for start-up by others.
- **Site Preparation:** Preparation, including lighting, level surface, pad rated for equipment, secondary containment, any required weather protection, and power connections assumed to be by others.
- Analytical and Sampling: All analytical, testing, and sampling assumed to be provided by others.
- **Hose and Piping:** Beyond Evoqua-provided supply assumed to be provided by others, if required for site connections.
- System Disinfection: Assumed to be provided by others.
- Forklift / Reach Lift / Crane: Assumed to be provided by others.

2.4 Notes/Assumptions

- 1. Supply of fresh, clean water to site by others.
- 2. Unloading and installation of equipment to be completed by others.
- 3. All labor to be provided is non-union. Weekend and holiday labor each to be subject to a surcharge.
- 4. Estimates of required time do not include any mandated attendance at site safety training or other site requirements beyond Evoqua's anticipated scope of work as detailed within.
- 5. Upon request or in the event of an onsite delay beyond Evoqua's control, supply of service technician(s) can be extended to match site requirements. Supply of service technician for duration beyond the quoted supply will be charged at an hourly rate plus per diem and any applicable expenses. Any extended durations will be documented by Evoqua in compiled daily reports.
- All tanks, pumps, hoses, piping and other equipment supplied by the customer must be thoroughly cleaned and rinsed with fresh water before being connected to Evoqua-supplied equipment.
- 7. Evoqua's price does not include, and Evoqua shall not be responsible for, any taxes, permits, tariffs, duties or fees (or any incremental increases to such taxes, permits, tariffs, duties or fees enacted by governmental agencies) unless specifically agreed herein or otherwise by Evoqua in writing.
- 8. Media exchanges are not included in this proposal; exchanges can be quoted separately if requested by client. Media exchange frequencies will be dependent on the concentrations of the constituents.
- 9. Onsite media exchange service pricing is contingent upon service truck access within 25' of adsorber; work being performed in level "C" or "D" PPE vessel minimum manway/connection requires a minimum opening of 4" and a minimum of 4' of overhead clearance above the adsorber/exchanger.





- 10. Evoqua's scope of supply is limited to the items specifically called out in Section 2. Any other items required for system installation and/or operation assumed to be provided by others.
- 11. Evoqua has reviewed the following client specifications: "OCWD Request for Proposals Dual Media Pressure Vessels, Exhibit A: Technical Specification for Dual Media Pressure Vessel System: Dual Media Use" dated February 28, 2020. Evoqua is in compliance with these specifications except as clarified or taken exception to within Attachment 3 of this proposal.
- 12. While equipment provided will be typical for use in drinking water applications, the system itself is not NSF certified for use in potable applications. All wetted parts of the provided system shall be NSF-61 approved or constructed of standard grade stainless steel or galvanized (non-NSF61 certified). Client will need to evaluate suitability of equipment for use in this application.



3.0 COMMERCIAL TERMS

Delivery

- Submittals will be issued four (4) weeks after purchase order (PO) acceptance and approval by Evoqua.
 - No revisions are allowed since the systems are already built.
- Shipment of (2) systems estimated to be four (4)- six (6) weeks after submittals.
- Storage of purchased equipment up to thirty-six (36) months after PO approval will be included with this offering.
 - O Upon PO approval, the systems can be stored free of charge for up to thirty-six (36) months, for a maximum of four (4) vessels and two (2) manifolds. After thirty-six (36) months, a storage fee of \$250 per vessel may be assessed for each 30-day calendar period or portion thereof after the initial thirty-six (36) months that the vessels have not shipped. Please note that an additional fee of \$3,100 per system for freight and offloading to designated storage location may also apply. This assumes that all systems can be moved to storage in one (1) event.

Prices do not include the following:

- Permits
- Site preparation including developing a concrete pad, grouting, weather protection, etc.
- Offloading and installation of equipment
- Foundation Design
- Anchor Bolts
- System Disinfection
- All other items not specifically listed in Section 1.3 "Major Components" category

Also, please note:

- Evoqua's documentation beyond any supplied submittals will be limited to O&M manuals unless requested; additional documentation or revisions to provided document may be subject to fee.
- This quotation is valid for a period of sixty (60) days unless extended in writing by Evoqua.
 Recent extreme raw material volatility in FRP, carbon steel, and stainless steel has resulted in
 potential impacts to cost and schedule on all projects. Due to this unprecedented market
 volatility, Evoqua reserves the right to re-quote the equipment proposed herein at the time of
 award based on the fluctuations in delivery and price of the materials identified above.
- Evoqua's bid is in accordance with Evoqua Water Technologies, LLC Standard Terms and Conditions attached hereto and are incorporated into this proposal by reference. Evoqua reserves the right to review and negotiate all terms and conditions of sale with you and update its proposal accordingly. Orders received with alternate terms will delay the start of your project and may result in pricing changes.
- Terms of payment are net thirty (30) days from receipt of invoice:
 - 35% upon purchase order
 - o 50% upon submittals acceptance
 - 15% upon shipment on a "per system" basis (not to exceed sixty (60) days after notice of ability to ship)
 - Quoted terms are subject to credit approval.
- Freight is included in the price. All equipment is shipped FOB Shipping Point, Freight Prepaid.
- A signed, hard copy Purchase Order written to Evoqua Water Technologies LLC is required before orders can be processed.



- Pricing is based on standard weekday service hours beginning at 8 am. Weekend, holiday, and after-hours rates incur a charge at time and a half rate.
- Unless otherwise specifically authorized in writing, the supplied service technician shall act only
 in an advisory capacity interpreting drawings, recommending sequence of work in erection,
 installation, start-up and training. Evoqua shall not be responsible for any acts, omissions or
 workmanship of employees, subcontractors or agents of the owner or for their failure to follow
 the advice or instructions of the service technician. The customer at its own cost and expense
 shall supply all labor, materials, tools, equipment, and facilities necessary for the execution of
 the work, unless agreed to otherwise in writing.
- Please note that no throughput or performance warranty is provided with this proposal.
- In the event that the customer cancels any part of the order after acceptance of PO, Evoqua reserves the right to charge the customer for the work already performed for the project.
- Seismic design has been included.

4.0 ATTACHMENTS

- Attachment 1. Scope of Supply Checklist
- Attachment 2. Qualifications and Project Personnel Resumés
- Attachment 3. Clarifications and Exceptions
- Attachment 4. Evoqua Standard Terms and conditions
- Attachment 5. Equipment Specification Summary
- Attachment 6. Equipment General Arrangement Drawing
- Attachment 7. Pressure Drop Curves



Attachment 1. Scope of Supply Checklist

Scano Itam	Respo	nsibility
Scope Item	Evoqua	Customer
Civil:		
Supply a well-drained, level area with concrete, crushed gravel, or similar foundation capable of supporting Evoqua's equipment.		Х
Site access preparation including permanent access roadways, and proper access and clearance for service for all Evoqua equipment		Х
All environmental and/or discharge related applications, inspections, sampling, and associated fees		Х
All building and/or installation-related applications, permits, surcharges, inspections, and associated fees.		X
Mechanical:		
Equipment as proposed herein.	Х	
Equipment quality assurance check onsite.	X	
Mechanical connections between customer tie-points and Evoqua equipment, including headers/manifolds as necessary.		Х
Influent and/or effluent connections to system beyond Evoqua's scope of supply, as required.		Х
Equipment unloading, moving and securement into position.		X
Crane and/or forklift for off-loading and re-loading equipment.		X
Spare parts, other than those stated under equipment description.		X
Safety showers and other site-specific safety requirements.		X
Site containment for all equipment and/or process chemicals.		X
Electrical:		
Permanent and temporary stand-by electrical power generator system(s).		X
Equipment bonding, if required		Х
Pad or storage area lighting.		Х
Grounding points for all supplied equipment.		Х
Onsite Services:		
Offloading of equipment, placement, and securement into place.		X
Technical assistance with system installation and start-up recommendations.	Х	
Mechanical installation labor, materials, and supervision.		Х
Functional testing of unit assemblies in the field.	Х	
Accumulation, transportation, and disposal of any accumulated wastes (e.g., dumpsters, bins, roll-off boxes, vacuum boxes, freight, disposal fees).		N/A
Other:		
Operating and maintenance manuals (qty one (1) hard copy).	Χ	
All other items not specifically stated above		X



Attachment 2. Qualifications - Service Team and References

Evoqua Water Technologies LLC (Evoqua) headquartered in Pittsburgh, PA is a leader in water and wastewater treatment products. As a global company with more than 170 locations in seven countries (Australia, Canada, Germany, Italy, Singapore, United Kingdom and United States) and more than 4,000 employees, Evoqua serves municipal customers (water and wastewater treatment) as well as industrial customers (food and beverage, life sciences, marine, microelectronics, mining, oil and gas and power). Evoqua is distinguished by more than a century of experience, an exceptional portfolio of proven brands and advanced technologies, knowledgeable experts and one of the industry's most expansive service networks supporting more than 200,000 installations worldwide.

Wastewater Ion Exchange Advanced Biological Treatment Carbon Services Biological Clarification MUNICIPAL Oil-Water Treatment Membrane Bioreactor WASTEWATER Repeatable Wastewater Solutions Water Reuse Membranes (Complex Effluents/Reuse) Odor Control Dewatering Equipment Cooling Tower Filtration Wastewater-Treatment Pumping eionization SOURCES INDUSTRIAL Sea Water (Desal) PROCESS / **Drinking Water** Brackish Water WASTEWATER Surface Water Electro-Deionization ■ Groundwater High Purity Systems Lab Water Applications Packaged Hybrid Systems MUNICIPAL Mobile Treatment Units ■ ME/UE-Membranes DRINKING WATER ■ Industrial Service/Operations Disinfection (UV, Chlorination) Intake Products

Water and Wastewater Treatment Needs We Meet

Evoqua offers reliable and responsive services backed by knowledgeable water experts in one of the water industry's most extensive service networks. Our service technicians can reach 85% of the US and California population in less than 2 hours.

As part of the Environmental Solutions segment of the Industrial Projects and Services Division within Evoqua, we are dedicated to improving water quality and providing superior service. Clean water is a precious resource to be protected by enabling our customers to be environmentally compliant.



Resources & Facilities

Evoqua can utilize various facilities to manufacture, install, start-up, train and provide ongoing operations and maintenance services to our customers. Locally, the Northern California and the three EWT branch locations within Southern California can provide design and operational personnel to manage, operate and support the Livermore systems. On a national basis, Evoqua can draw from the following resources within its U.S. Operations:

Engineering Centers

Mechanical Design / Application Engineering Centers – Evoqua draws from a number of Design and Application Engineering Centers within the U.S. for systems design. Application Engineering Centers draw from applications engineers within our local Southern California branch locations, as well as from Houston, TX and Sewickley, PA.

Project Management / Engineering is provided through our local Northern and Southern California branches as well as our Project/Engineering Management office in Schaumburg, IL.

Equipment Manufacturing Plants

Our manufacturing facility located in Thomasville, GA will oversee the manufacturing of the equipment. We work with ASME manufacturers locally to provide the most cost-effective products and systems for our customers. The facility has been in service since the early 1990's and has assembled more than 200 large Pressure Vessel Systems during that time (most with ASME code vessels).

Service Centers

Our Municipal Services Southern California Branch in La Mirada, CA will provide technicians and services for supervising equipment and resin installation, startup and training. We also have three local EWT branches in Northern California. Evoqua can draw from technicians pulled from one of 84 branches nationwide for support services to our customers.

Evoqua Water Technologies U.S. Based Technical Support and Service Team

Service is the cornerstone of our business. As a service provider, Evoqua knows that service must be local. Our resin branch is in Los Angeles. Our service teams take project ownership. Evoqua attracts the brightest minds to come and work with us. Our team, from our PhDs to our technicians, is top notch in the industry. These resources are at your disposal. It is with great pride that we present the attached resumés.

Patricia Tinnerino - Technical Sales Representative - Based in La Mirada, CA

Patricia is the lead PFAS technical sales representative for Evoqua. She has been involved with this project from inception and is thoroughly familiar with it.

Patricia has 20 years of direct sales experience, mostly in the area of water treatment; the past 10 years with Evoqua. Her responsibilities with Evoqua include account management/consultative sale of environmental services to the oil, municipal, manufacturing and environmental consulting industries. She provides technical sales and support for activated carbon and VOC removal systems, process evaluation and improvement, and training and development of new representatives, technicians and operating engineers.





Education: UCLA, Los Angeles, CA - BS in Chemical Engineering, 2001

<u>Dan Brooks – Applications Engineer Manager - Based in Pittsburgh, PA</u>

Daniel has 27 years of experience in the Activated Carbon Industry. He specializes in the application of media and systems for water and wastewater treatment. The past 12 years have been with the current organization of Siemens Water Technology and currently, Evoqua.

Dan currently provides technical support of various media and treatment equipment (in addition to activated carbon) to Evoqua sales staff and customers. He evaluates complex treatment projects and determines optimal application of Evoqua technology (equipment, media and service), coordinates within Evoqua for proper technical and commercial evaluation of projects, develops detailed technical proposals and costing, and supports sales technically on an as-needed basis.

Education: University of Delaware, Newark, DE, BS in Mechanical Engineering (1989)

University of Pittsburgh, Pittsburgh, PA, MBA (1993)

<u>Raymond Farthing – Remediation Operations Support Service Manager - Based in Los Angeles, CA</u>

Service Technician for Evoqua with 15 years of experience. Ray has over 10 years of experience working in water treatment plants with Reverse Osmosis units, water softening and deionization units, chemical injections, throughput calculation, installations and system startups. These treatment plants consist of Air Products and Chemicals, Tesoro Refinery, Phillips 66 and multiple Southern California municipal drinking water sites. Currently, he is focusing on Resin Remediation and Regeneration.

Emergency After Hours Number: (800) 435-3223



Attachment 3. Technical Clarifications and Exceptions to Specifications

Project Name: OCWD Request for Proposals Dual Media Pressure Vessels, Exhibit A: Technical

Specification for Dual Media Pressure Vessel System: Dual Media Use

Project Location: OCWD (various sites) - Orange County, CA

Bid/Quote No.: 674994 Rev 1

Item	Bid Spec Section	Clarification / Exception
		Clarification: The vessel interior lining, interior coating on the process piping and media fill/removal piping, and the process butterfly valves are ANSI/NSF-61 certified for use with potable water.
1	1.1.D.	ANSI/NSF-61 certification is not available as an option for 316 stainless steel materials.
		The EPDM rubber gaskets and expansion joints offered in this proposal are not ANSI/NSF-61 certified; however, the products selected for both are an industry standard for use in potable water.
2	1.4.B. & C.	Clarification: Submittals (for informational purposes only) under this Part will be furnished upon successful Terms & Conditions negotiations and PO acceptance by Evoqua, in accordance with the submittal schedule.
3	1.6.	Clarification: Mechanical Warranty is twenty-four (24) months from delivery or eighteen (18) months from initial operation, whichever occurs first. Additional conditions to the equipment warranty are the executed agreement between the parties.
4	2.2.B.2.	Clarification: Evoqua is using an Importance Factor of 1.5 for these calculations, which will comply with 80-90% of the sites located in Orange County, CA. However, since we do not have all site addresses at this time, there may be an outlier(s) where these seismic calculations could result with an Importance Factor of 1.25. Even so, it will meet the current Uniform Building Code Seismic requirements.
5	2.4.A.2	Clarification: The vessels are sized for 700 cf of GAC to provide an EBCT of 10 minutes at 525 gpm. The total weight (lb) of GAC is dependent upon the GAC density. A high-density GAC may require more than 20,000 lb to fill a volume of 700 cf and a lower density GAC will require less than 20,000 lb to fill 700 cf.
6	2.4.A.9.g.	Clarification: The septa and other underdrain components internal to the pressure vessel are constructed of 316 stainless steel. ANSI/NSF-61 certification is not available as an option for 316 stainless steel materials.
7	2.4.A.13.e.	Exception: Media fill and removal piping are constructed of Sch 40 carbon steel and coated internally with an ANSI/NSF-61 certified epoxy.



Item	Bid Spec Section	Clarification / Exception
		Historical results in field operation with similarly designed projects have shown the epoxy-lined carbon steel provides a longer life span than stainless steel.
8	2.4.A.13.g.	Exception: The exterior carbon steel piping surfaces will be abrasive blasted per SSPC-SP-10 with an epoxy primer (Carboline® Carboguard 890) at 4-6 mil DFT and polyurethane finish coating (Carboline® Carbothane 133 VOC) at 3-4 mil DFT.
9	2.4.A.14.a.	Exception: The 4-tier process piping manifold utilizes ten (10) butterfly valves per system to accommodate process and backwash control functions. An eleventh butterfly valve (per system) is not included in this proposal. This additional valve(s) can be provided as a loose shipped item upon request, subject to associated pricing and lead time(s).
10	2.4.A.17.a.	Clarification: ANSI/NSF-61 certification is not available as an option for 316 stainless steel materials.
11	2.4.A.17.e.	Clarification: The expansion joints offered in this proposal are not ANSI/NSF-61 certified; however, the product selected is an industry standard for use in potable water.
12	2.4.A.17.f.	Exception: The EPDM rubber gaskets offered in this proposal are not ANSI/NSF-61 certified; however, the product(s) selected is an industry standard for use in potable water.



Attachment 4. Evoqua Standard Terms and Conditions

STANDARD TERMS OF SALE

- 1. <u>Applicable Terms.</u> These terms govern the purchase and sale of equipment, products, related services, leased products, and media goods if any (collectively herein "Work"), referred to in Seller's proposal ("Seller's Documentation"). Whether these terms are included in an offer or an acceptance by Seller, such offer or acceptance is expressly conditioned on Buyer's assent to these terms. Seller rejects all additional or different terms in any of Buyer's forms or documents.
- 2. **Payment.** Buyer shall pay Seller the full purchase price as set forth in Seller's Documentation. Unless Seller's Documentation specifically provides otherwise, freight, storage, insurance and all taxes, levies, duties, tariffs, permits or license fees or other governmental charges relating to the Work or any incremental increases thereto shall be paid by Buyer. If Seller is required to pay any such charges, Buyer shall immediately reimburse Seller. If Buyer claims a tax or other exemption or direct payment permit, it shall provide Seller with a valid exemption certificate or permit and indemnify, defend and hold Seller harmless from any taxes, costs and penalties arising out of same. All payments are due within thirty (30) days after receipt of invoice. Buyer shall pay interest on all late payments not received by the due date. The Buyer shall be charged the lesser rate of 1 ½% interest per month or the maximum interest rate permissible under applicable law, calculated daily and compounded monthly. Buyer shall also reimburse Seller for all costs incurred in collecting amounts due but unpaid, including without limitation, collections fees and attorneys' fees. All orders are subject to credit approval by Seller. Back charges without Seller's prior written approval shall not be accepted.
- 3. <u>Delivery.</u> Delivery of the Work shall be in material compliance with the schedule in Seller's Documentation. Unless Seller's Documentation provides otherwise, delivery terms are FOB Shipping Point, or for international orders, ExWorks Seller's factory (INCO™ Terms 2020). Title to all Work shall pass upon receipt of payment for the Work under the respective invoice. Unless otherwise agreed to in writing by Seller, shipping dates are approximate only and Seller shall not be liable for any loss or expense (consequential or otherwise) incurred by Buyer or Buyer's customer if Seller fails to meet the specified delivery schedule.
- 4. Ownership of Materials and Licenses. All devices, designs (including drawings, plans and specifications), estimates, prices, notes, electronic data, software, and other information prepared or disclosed by Seller, and all related intellectual property rights, shall remain Seller's property. Seller grants Buyer a non-exclusive, non-transferable license to use any written material solely for Buyer's use of the Work. Buyer shall not disclose any such material to third parties without Seller's prior written consent. Buyer grants Seller a non-exclusive, non-transferable license to use Buyer's name and logo for marketing purposes, including but not limited to, press releases, marketing and promotional materials, and web site content.
- 5. <u>Changes.</u> Neither party shall implement any changes in the scope of Work described in Seller's Documentation without a mutually agreed upon change order. Any change to the scope of the Work, delivery schedule for the Work, any Force Majeure Event, any law, rule, regulation, order, code, standard or requirement which requires any change hereunder shall entitle Seller to an equitable adjustment in the price and time of performance. If Buyer requests a proposal for a change in the Work from Seller and subsequently elects not to proceed with the change, a change order shall be issued to reimburse Seller for reasonable costs incurred for estimating services, design services, and services involved in the preparation of proposed changes.
- 6. <u>Force Majeure Event.</u> Neither Buyer nor Seller shall have any liability for any breach or delay (except for breach of payment obligations) caused by a Force Majeure Event. If a Force Majeure Event exceeds six (6) months in duration, the Seller shall have the right to terminate the Agreement without liability, upon fifteen (15) days written notice to Buyer, and shall be entitled to payment, including overhead and profit, for work performed prior to the date of termination. "Force Majeure Event" shall mean events or circumstances that are beyond the affected party's control and could not reasonably have been easily avoided or overcome by the affected party and are not substantially attributable to the other party. Force Majeure Event may include, but is not limited to, the following circumstances or events: war, act of foreign enemies, terrorism, riot, strike, or lockout by persons other than by Seller or its sub-suppliers, natural catastrophes, (with respect to on-site work) unusual weather conditions, epidemic, pandemic, communicable disease outbreak, quarantines, national emergency, or state or local order.
- Warranty. Subject to the following sentence, Seller warrants to Buyer that the (i) Work shall materially conform to the description in Seller's Documentation and shall be free from defects in material and workmanship and (ii) the Services shall be performed in a timely and workmanlike manner. Determination of suitability of treated water for any use by Buyer shall be the sole and exclusive responsibility of Buyer, and Seller disclaims any warranty regarding such suitability. The foregoing warranty shall not apply to any Work that is specified or otherwise demanded by Buyer and is not manufactured or selected by Seller, as to which (i) Seller hereby assigns to Buyer, to the extent assignable, any warranties made to Seller and (ii) Seller shall have no other liability to Buyer under warranty, tort or any other legal theory. The Seller warrants the Work, or any components thereof, through the earlier of (i) eighteen (18) months from delivery of the Work, or (ii) twelve (12) months from Buyer's initial operation of the Work, or in the case of services performed as part of the Work, ninety (90) days from the performance of the services (the "Warranty Period"). If Buyer gives Seller prompt written notice of breach of this warranty within the Warranty Period, Seller shall, at its sole option and as Buyer's sole and exclusive remedy, repair or replace the subject parts, re-perform the Service or refund the purchase price. Unless otherwise agreed to in writing by Seller, (i) Buyer shall be responsible for any labor required to gain access to the Work so that Seller can assess the available remedies and (ii) Buyer shall be responsible for all costs of installation of repaired or replaced Work. If Seller determines that any claimed breach is not, in fact, covered by this warranty, Buyer shall pay Seller its then customary charges for any repair or replacement made by Seller. Seller's warranty is conditioned on Buyer's (i) operating and maintaining the Work in accordance with Seller's instructions, (ii) not making any unauthorized repairs or alterations, and (iii) not being in default of any payment obligation to Seller. Seller's warranty does not cover (i) damage caused by chemical action or abrasive material, improper thermal or electrical capacity, misuse or improper installation (unless installed by Seller) and (ii) media goods (such as, but not limited to, resin, membranes, or granular activated carbon media) once media goods are installed. THE WARRANTIES SET FORTH IN THIS SECTION ARE THE SELLER'S SOLE AND EXCLUSIVE WARRANTIES AND ARE SUBJECT TO THE LIMITATION OF LIABILITY PROVISION BELOW. SELLER MAKES NO OTHER WARRANTIES OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE.

- 8. <u>Indemnity.</u> Seller shall indemnify, defend, and hold Buyer harmless from any claim, cause of action, or liability incurred by Buyer as a result of third-party claims for personal injury, death, or damage to tangible property, to the extent caused by Seller's negligence. Seller shall have the sole authority to direct the defense of and settle any indemnified claim. Seller's indemnification is conditioned on Buyer (i) promptly notifying Seller of any claim, and (ii) providing reasonable cooperation in the defense of any claim. Buyer shall indemnify, defend, and hold harmless Seller from any claim, cause of action, or liability incurred by Seller as a result of third-party claims for personal injury, death, or damage to tangible property, to the extent caused by Buyer's negligence. Buyer shall have the sole authority to direct the defense of and settle any such indemnified claim. Buyer's indemnification is conditioned on Seller (i) promptly notifying Buyer of any claim, and (ii) providing reasonable cooperation in the defense of any claim.
- 9. <u>Assignment.</u> Neither party may assign this Agreement, in whole or in part, nor any rights or obligations hereunder without the prior written consent of the other party; provided, however, the Seller may assign its rights and obligations under these terms to its affiliates or in connection with the sale or transfer of the Seller's business, and Seller may grant a security interest in the Agreement and/or assign proceeds of the agreement without Buyer's consent.
- 10. <u>Termination.</u> Either party may, in addition to any other available remedy, terminate this agreement for a material breach upon issuance of a written notice of the breach and expiration of a thirty (30) day cure period. In the event of (i) a voluntary or involuntary petition in bankruptcy, (ii) an assignment for the benefit of a creditor, or (iii) a receivership, liquidation, or dissolution, Seller may terminate the agreement immediately, in addition to seeking any other available remedy. If Buyer suspends an order without a change order for ninety (90) or more days, Seller may thereafter terminate this Agreement without liability, upon fifteen (15) days written notice to Buyer, and shall be entitled to payment for work performed, whether delivered or undelivered, prior to the date of termination.
- Dispute Resolution. In the event of any claim, dispute, or controversy arising out of or relating in any way to this Agreement (collectively, a "Claim"), Seller and Buyer shall first negotiate in good faith in an effort to resolve the Claim. If, despite good faith efforts, the parties are unable to resolve a Claim through negotiations, the parties shall mediate the Claim in accordance with the commercial mediation procedures of the American Arbitration Association ("AAA"), with such mediation to take place in Pittsburgh, Pennsylvania. If the parties are unable to resolve the Claim through such mediation, then the Claim shall be resolved through final and binding arbitration pursuant to the commercial arbitration procedures of the AAA, with such arbitration to take place in Pittsburgh, Pennsylvania before one arbitrator, who shall have authority to rule on jurisdiction over the Claim. Seller and Buyer agree to the exclusive jurisdiction of the federal and state courts situated in Allegheny County, Pennsylvania for purposes of entering judgment upon the arbitrator's award. The substantially prevailing party, as determined by the arbitrator, shall be entitled to recover all costs, expenses, and charges, including, without limitation, reasonable attorneys' fees and expert witness fees, incurred in connection with the Claim. In case of an Agreement under which Seller ships the Work outside of the United States, or under which Seller's and Buyer's places of business are in different countries, any Claim which is not resolved by the good faith negotiations and mediation required by this Section shall then be determined by arbitration administered by the International Center for Dispute Resolution in accordance with its International Arbitration Rules, with such arbitration taking place in Pittsburgh, Pennsylvania, USA, before one arbitrator, with English as the language of the arbitration. This Agreement and any Claim shall be governed by the laws of the Commonwealth of Pennsylvania, without giving effect to the choice of law principles thereof.
- 12. **Export Compliance.** All items, and technologies, software, and work products are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. government or as otherwise authorized by U.S. law and regulations. Any diversion contrary to U.S. law is prohibited. Buyer acknowledges that Seller is required to comply with applicable export laws and regulations relating to the sale, exportation, transfer, assignment, disposal, and usage of the Work provided under this Agreement, including any export license requirements. Buyer agrees that such Work shall not at any time directly or indirectly be used, exported, sold, transferred, assigned, or otherwise disposed of in a manner which will result in non-compliance with such applicable export laws and regulations. It shall be a condition of the continuing performance by Seller of its obligations hereunder that compliance with such export laws and regulations be maintained at all times. BUYER AGREES TO INDEMNIFY AND HOLD SELLER HARMLESS FROM ANY AND ALL COSTS, LIABILITIES, PENALTIES, SANCTIONS AND FINES RELATED TO NON-COMPLIANCE WITH APPLICABLE EXPORT LAWS AND REGULATIONS.
- 13. Anti-Kickback Statute Discounts. It is the intent of both Buyer and Seller to comply with the Anti-Kickback Statute (42 U.S.C. §1320a-7b(b)) and the Discount Safe Harbor and Warranties Safe Harbor regulations set forth in 42 C.F.R. 1001.952(h) and (g), respectively. Buyer's price may constitute a 'discount or other reduction in price' under the Anti-Kickback Statute. Seller shall provide Buyer with invoices that fully and accurately disclose the discounted price of all Products purchased under this Agreement to allow Buyer to comply with this Section and the Discount Safe Harbor regulations, including sufficient information to enable it to accurately report its actual cost for all purchases of Products. Buyer acknowledges that, if applicable, it will fully and accurately report all discounts or other price reductions, including warranty items, in the costs claimed or charges made under any Federal or State healthcare program and provide information upon request to third party reimbursement programs, including Medicare and Medicaid. Buyer will be solely responsible for determining whether any savings or discount or warranty item it receives must be reported or passed on to payors.
- 14. <u>Federal Program Participation.</u> Seller represents and warrants that neither it nor any of its current directors, officers, or key personnel: (i) are currently excluded, debarred or otherwise ineligible to participate in federal health care programs as defined in 42 U.S.C. §1320a-7b(f) (the "Federal Healthcare Programs"); (ii) have been convicted of a criminal offense related to the provision of healthcare items or services during the last five (5) years; or (iii) have been excluded, debarred or otherwise declared ineligible to participate during the last five (5) years in Federal Healthcare Programs. Seller will notify Buyer of any change in the status of the representations and warranties set forth above.
- 15. <u>LIMITATION OF LIABILITY.</u> NOTWITHSTANDING ANYTHING ELSE TO THE CONTRARY, SELLER SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, PUNITIVE OR OTHER INDIRECT DAMAGES, AND SELLER'S TOTAL LIABILITY ARISING AT ANY TIME FROM THE SALE OR USE OF THE WORK, INCLUDING WITHOUT LIMITATION ANY LIABILITY

FOR ALL WARRANTY CLAIMS OR FOR ANY BREACH OR FAILURE TO PERFORM ANY OBLIGATION UNDER THE AGREEMENT, SHALL NOT EXCEED THE PURCHASE PRICE PAID FOR THE WORK. THESE LIMITATIONS APPLY WHETHER THE LIABILITY IS BASED ON CONTRACT, TORT, STRICT LIABILITY OR ANY OTHER THEORY.

16. <u>Miscellaneous.</u> These terms, together with any related Contract Documents issued or signed by the Seller, comprise the complete and exclusive statement of the agreement between the parties (the "Agreement") and supersede any terms contained in Buyer's documents, unless separately signed by Seller. No part of the Agreement may be changed or cancelled except by a written document signed by Seller and Buyer. No course of dealing or performance, usage of trade or failure to enforce any term shall be used to modify the Agreement. To the extent the Agreement is considered a subcontract under Buyer's prime contract with an agency of the United States government, in case of Federal Acquisition Regulations (FARs) flow down terms, Seller will be in compliance with Section 44.403 of the FAR relating to commercial items and those additional clauses as specifically listed in 52.244-6, Subcontracts for Commercial Items (OCT 2014). If any of these terms is unenforceable, such term shall be limited only to the extent necessary to make it enforceable, and all other terms shall remain in full force and effect. The Agreement shall be governed by the laws of the Commonwealth of Pennsylvania without regard to its conflict of laws provisions. Both Buyer and Seller reject the applicability of the United Nations Convention on Contracts for the international sales of goods to the relationship between the parties and to all transactions arising from said relationship.

Only in the event that the Work contemplated in this Order is related to the provision of medical devices, the following additional terms apply:

17. Medical Devices Act and Regulatory Disclaimer. Buyer acknowledges that it is familiar with the U.S. Safe Medical Devices Act of 1990 (the "Devices Act") and the reporting obligations imposed on device users thereunder. In this regard, Buyer agrees to notify Seller within ten (10) days of the occurrence of any event identified in the Devices Act imposing a reporting obligation on Buyer and/or Seller (except for events representing an imminent hazard that require notification to the United States Food and Drug Administration (the "FDA") within seventy-two (72) hours (or such shorter time as required by law), in which case, such notice will be delivered to the FDA and Seller within said period). Buyer will maintain adequate tracking for the Products to enable Seller to meet the FDA requirements applicable to the tracking of medical devices. Although Seller has the required registrations, approvals, and licenses (e.g., U.S. 510(k) pre-market notifications) for all or substantially all of its systems, the purchase of parts and system components from Seller does not provide 510(k) compliance or compliance under any other law, rule or regulation for Buyer's system.

Only in the event that the Work contemplated in this Order is related to the provision of leased or rented equipment ("Leased Equipment"), the following additional terms apply:

18. Rental Equipment / Services. Any Leased Equipment provided by Seller shall at all times be the property of Seller with the exception of certain miscellaneous installation materials purchased by the Buyer, and no right or property interest is transferred to the Buyer, except the right to use any such Leased Equipment as provided herein. Buyer agrees that it shall not pledge, lend, or create a security interest in, part with possession of, or relocate the Leased Equipment. Buyer shall be responsible to maintain the Leased Equipment in good and efficient working order. At the end of the initial term specified in the order, the terms shall automatically renew for the identical period unless canceled in writing by Buyer or Seller not sooner than three (3) months nor later than one (1) month from termination of the initial order or any renewal terms. Upon any renewal, Seller shall have the right to issue notice of increased pricing which shall be effective for any renewed terms unless Buyer objects in writing within fifteen (15) days of issuance of said notice. If Buyer timely cancels service in writing prior to the end of the initial or any renewal term this shall not relieve Buyer of its obligations under the order for the monthly rental service charge which shall continue to be due and owing. Upon the expiration or termination of this Agreement, Buyer shall promptly make any Leased Equipment available to Seller for removal. Buyer hereby agrees that it shall grant Seller access to the Leased Equipment location and shall permit Seller to take possession of and remove the Leased Equipment without resort to legal process and hereby releases Seller from any claim or right of action for trespass or damages caused by reason of such entry and removal.



Attachment 5. Equipment Specification Summary



Rev.0 - 3/11/2020

HP®1220CIX SYS

DUAL MEDIA GAC/RESIN ADSORPTION SYSTEM SPECIFICATION SUMMARY

HP®1220CIX SYS Liquid Phase Adsorption Systems are designed to treat a wide range of contaminated process streams. Piping and valves are configured for series, parallel, or vessel isolation flows. System includes GAC/RESIN inlet and outlet piping, and backwash capabilities (for GAC Only). The system consists of two adsorbers, with all piping, valves, and gauges assembled for ease of operation. The adsorbers are equipped with underdrains for maximum series flow rate of 525 GPM for GAC and 1600 GPM for Resin.

EACH VESSEL:

		144"
		60"
	Overall Height (Approx.)	16'-4"
	Maximum Working Pressure	125 psi @ 140 °F
	Manway:	
	Flanged at side shell	24"
	Elliptical type at head	14" x 18"
	Vessel Volume	7,520 gal.
	Carbon Volume	700 Ft ³
		424 Ft ³ .
		525 GPM
	Empty Bed Contact Time (GAC)	10 min/vessel @ 525 GPM
		1600 GPM
		2 min/vessel @ 1600 GPM
		YES
	Material	Carbon Steel
	Supports	Wide Flange Legs
		Lifting Lugs
		Current IBC
	Interior Surface Prep	SSPC-SP5
		Plasite 4110 35 mil dft min
	Exterior Surface Primer	Carboguard 890 Epoxy 4-6 mil dft
		Carbothane 133VOC Urethane 3-4 mil dft
		Cashew #9225
CONNE	CTIONS.	
CONNE	CTIONS:	40" 450# ANOL Florens d
		8" Flanged
	Utility vvater	2" Kamlock

All information presented herein is believed reliable and in accordance with accepted engineering practices. Evoqua makes no warranties as to completeness of information. Users are responsible for evaluating individual product suitability for specific applications. Evoqua assumes no liability whatsoever for any special, indirect or consequential damages arising from the sale, resale or misuse of its products.

Evoqua reserves the right to change the specifications referred to in this literature at any time, without prior notice.



UNDERDRAINS:

External Ring H	eader		10)" Sch.	40 Ep	oxy Lined	Carboi	n Steel
Screens	8 ea 316L	Stainless	Steel V	'-Wire	X-Box	Screens 4	1 ½" dia	a. x 10"

VALVE ASSEMBLY AND PIPING:

Piping:	
Process Piping1	0" Schedule 40 Carbon Steel, Epoxy Lined
GAC Transfer Piping	4" Sch 40 Carbon Steel, Epoxy Lined
Valves:	
Process 10" Butterfly	, Cast Iron Body w/SS Disk, Gear Operator
GAC Transfer	. 4" Flanged 316 Stainless Steel Ball Valve
Drain/Wash	2" Bronze Ball Valve
Sample Ports (3)	1/2" Bronze Ball Valve
. , ,	

SYSTEM WEIGHT:

System Shipping weight (Two Vessels F	Piping & Manifold)43,000 lbs.
Operating Weight (with UC1240LD GAC	C)180,000 lbs.
Operating Weight (with PSR2+ Resin)	192,000 lbs.

FOR ADDITIONAL INFORMATION, PLEASE CONTACT YOUR NEAREST CARBON SERVICE BRANCH AT:

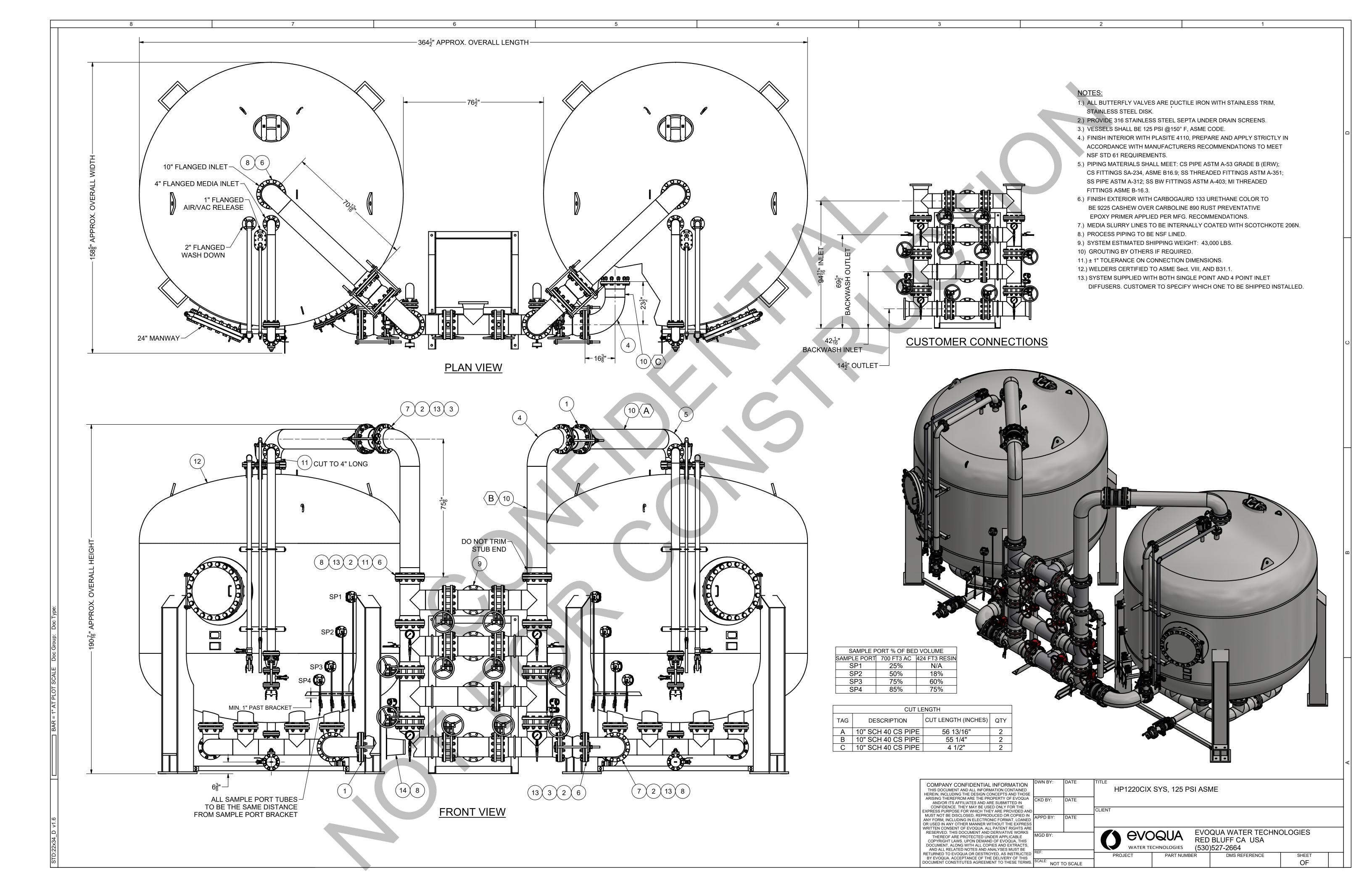
866-613-5620

All information presented herein is believed reliable and in accordance with accepted engineering practices. Evoqua makes no warranties as to completeness of information. Users are responsible for evaluating individual product suitability for specific applications. Evoqua assumes no liability whatsoever for any special, indirect or consequential damages arising from the sale, resale or misuse of its products.

Evoqua reserves the right to change the specifications referred to in this literature at any time, without prior notice.



Attachment 6. Equipment General Arrangement Drawing





Product Data Sheet

AmberLite™ PSR2 Plus Ion Exchange Resin

Drinking Water-grade, Uniform Particle Size, Gel, Strong Base Anion Resin for Selective Perchlorate Removal

Description

AmberLite[™] PSR2 Plus Ion Exchange Resin is a strong base anion exchange resin for the selective removal of perchlorate and per- and polyfluoroalkyl substances (PFAS) from potable water.

The resin offers exceptional selectivity for perchlorate and a high affinity for PFAS. The physical characteristics of AmberLite™ PSR2 Plus, a gel resin with a uniform particle size, afford high operating capacity and lower pressure losses compared to conventional perchlorate removal resins.

Applications

- Potable water treatment
 - Perchlorate removal
 - Per- and polyfluoroalkyl substances (PFAS) removal

Typical Properties

rene-divinylbenzene ong base anion n-butyl amine te to yellow, translucent, spherical beads 7 eq/L - 35%
ong base anion n-butyl amine te to yellow, translucent, spherical beads
n-butyl amine te to yellow, translucent, spherical beads 7 eq/L
n-butyl amine te to yellow, translucent, spherical beads 7 eq/L
te to yellow, translucent, spherical beads 7 eq/L
7 eq/L
•
•
•
- 35%
± 50 µm
1
6
5%
0%

[§] For additional particle size information, please refer to the Particle Size Distribution Cross Reference Chart (Form No. 45-D00954-en).

Suggested
Operating
Conditions

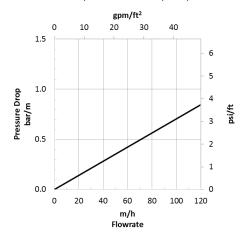
Maximum Operating Temperature	60°C (140°F)	
pH Range	0 – 14	

Hydraulic Characteristics

Estimated pressure drop for AmberLite™ PSR2 Plus Ion Exchange Resin as a function of service flowrate at 20°C (68°F) is shown in Figure 1. These pressure drop expectations are valid at the start of the service run with clean water. Estimated pressure drop at other water temperatures can be calculated with the provided equations.

Figure 1: Pressure Drop

Temperature = 20°C (68°F)



For other temperatures use:

 $P_T = P_{20^{\circ}C} / (0.026T_{^{\circ}C} + 0.48)]$, where P = bar/m $P_T = P_{68^{\circ}F} / (0.014T_{^{\circ}F} + 0.05)]$, where P = psi/ft

Conditioning and Limits of Use

AmberLite™ PSR2 Plus Ion Exchange Resin is suitable for use in potable water applications ¹ after an initial commissioning pretreatment at ambient temperature.

Product Stewardship

DuPont has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with DuPont products—from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

Customer Notice

DuPont strongly encourages its customers to review both their manufacturing processes and their applications of DuPont products from the standpoint of human health and environmental quality to ensure that DuPont products are not used in ways for which they are not intended or tested. DuPont personnel are available to answer your questions and to provide reasonable technical support. DuPont product literature, including safety data sheets, should be consulted prior to use of DuPont products. Current safety data sheets are available from DuPont.

Please be aware of the following:

 WARNING: Oxidizing agents such as nitric acid attack organic ion exchange resins under certain conditions. This could lead to anything from slight resin degradation to a violent exothermic reaction (explosion). Before using strong oxidizing agents, consult sources knowledgeable in handling such materials.

¹ Please confirm the regulatory approval in your specific country of use.

Regulatory Note

These products may be subject to drinking water application restrictions in some countries; please check the application status before use and sale.

Have a question? Contact us at:

www.dupont.com/water/contact-us

All information set forth herein is for informational purposes only. This information is general information and may differ from that based on actual conditions. Customer is responsible for determining whether products and the information in this document are appropriate for Customer's use and for ensuring that Customer's workplace and disposal practices are in compliance with applicable laws and other government enactments. The product shown in this literature may not be available for sale and/or available in all geographies where DuPont is represented. The claims made may not have been approved for use in all countries. Please note that physical properties may vary depending on certain conditions and while operating conditions stated in this document are intended to lengthen product lifespan and/or improve product performance, it will ultimately depend on actual circumstances and is in no event a guarantee of achieving any specific results. DuPont assumes no obligation or liability for the information in this document. References to "DuPont" or the "Company" mean the DuPont legal entity selling the products to Customer unless otherwise expressly noted. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED. No freedom from infringement of any patent or trademark owned by DuPont or others is to be inferred.

© 2023 DuPont. DuPont™, the DuPont Oval Logo, and all trademarks and service marks denoted with ™, ⁵M or ® are owned by affiliates of DuPont de Nemours Inc., unless otherwise noted.





Login

Join WQA



Water Quality Association

3/31/2025



CERTIFIED DRINKING WATER SYSTEM COMPONENTS

NSF/ANSI/CAN 61: Drinking Water System Components - Health Effects

DDP Specialty Electronic Materials US, LLC

974 Centre Road, Building 730

Wilmington, DE 19805

United States

http://www.dupont.com (http://www.dupont.com)

Product Type: Ion Exchange Resin

Brand Name	Model	Water Contact Temp	Water Contact Material	Size
AMBERLITE™	PSR2 Plus (Cl) Ic	on Cold (23C)	Various	0.5 - 0.9 mm
	Exchange Resin	1		
	2			

- ¹ Product approved for both residential point of entry and water treatment plant application end uses.
- ² For POE applications, soak with water for 1 hour. Then, rinse with 20 bed volumes (BV) of water at 10BV/hr (2 hours at 0.14 gpm). For water treatement applications, soak with water for 1 hour. Then, rinse with 20 bed volumes (BV) (12 gallons) of water at 10 BV/hour.

Water Quality Association

About Us (https://wqa.org/about-wqa/) (https://wqa.org)

International Headquarters &

Advertising Policy (https://wqa.org/wp-Laboratory

2375 Cabot Dr

content/uploads/2022/12/WQA-Advertising-Policy-Version-

Contact Us (https://wqa.org/about-wqa/contact-us/)

Lisle,IL 60532-3696 USA

1.pdf)

Tel: 630-505-0160 (tel:630-505-0160)

Press Room (https://wqa.org/press-room/)

wqa@wqa.org

WQA Convention & Expo (https://convention.wga.org/) (mailto:wqa@wqa.org)

© 2023 Water Quality Association, All Rights

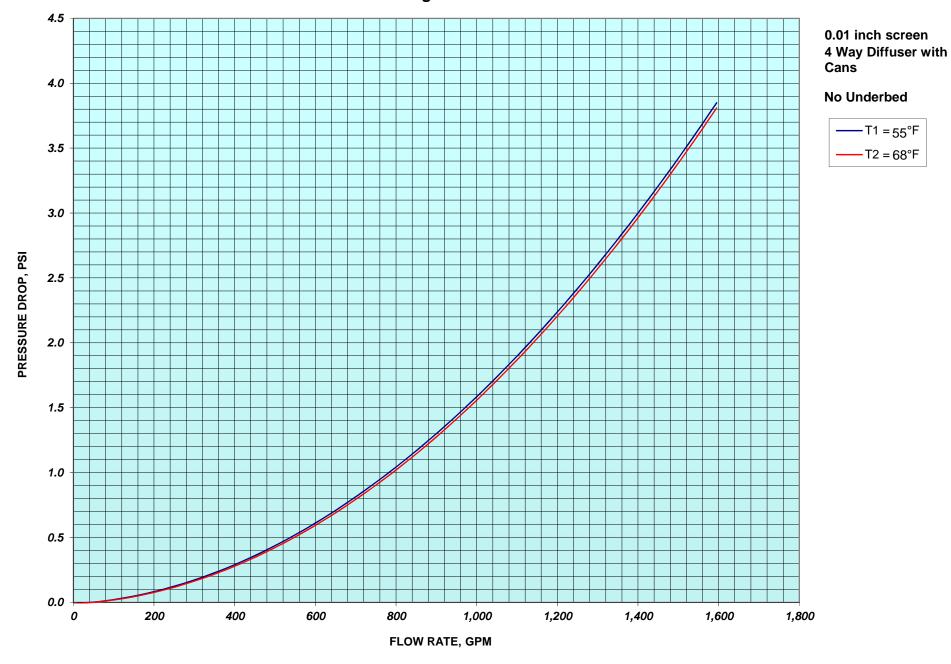
Terms of Use (https://wqa.org/?page_id=311)

Privacy Statement (https://wga.org/privacy-statement/) Reserved

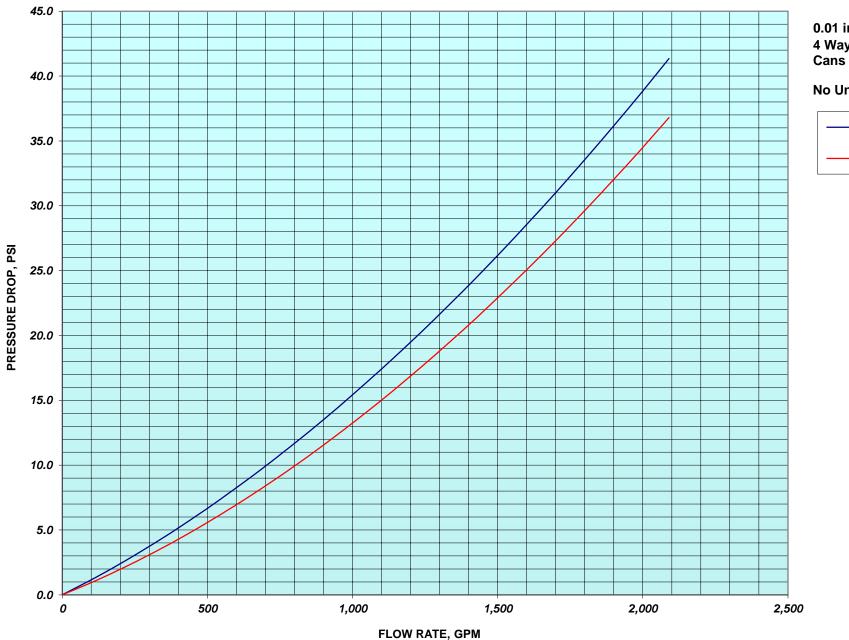


Attachment 7. Pressure Drop Curves

Predicted System Pressure Loss HP1220CIX Single Tank - No Media



Predicted System Pressure Loss HP1220CIX Series 2 Vessels - Media 424 ft³ of DOWEX PSR2+ - 10in CS Manifold



0.01 inch screen 4 Way Diffuser with Cans

No Underbed

----T1 = 50°F ----T2 = 68°F



Attachment 8. Statement of Compliance

Affirmative Action Compliance	(FAR 52.222-2	5) (Apr 1984)
-------------------------------	---------------	---------------

The	e Offeror represents that it: (Complete either item (a) or (b) only; do not complete both (a) and (b)).
(a)	☐ Has developed and has on file, or ☐ has not developed and does not have on file, at each establishment, affirmative action programs required by the rules and regulations of the Secretary of Labor (41 CFR 60-1 and 60-2), or
(b)	☐ Has not previously had contracts subject to the written affirmative action programs requirement of the rules and regulations of the Secretary of Labor.



Attachment 9. CA Dept of Industrial Relations

	Registration I	Registration History	
Contractor Information	Effective Date	Expiration Date	
Legal Entity Name			
EVOQUA WATER TECHNOLOGIES LLC	6/19/2018	6/30/2019	
Legal Entity Type			
LLC	6/8/2017	6/30/2018	
Status			
Active	6/29/2016	6/30/2017	
Registration Number			
1000012718	9/29/2015	6/30/2016	
Registration effective date			
7/1/2024	2/27/2015	6/30/2015	
Registration expiration date			
6/30/2027	7/1/2019	6/30/2020	
Mailing Address			
14250 Gannet St. La Mirada 90638 CA United States of	7/1/2020	6/30/2021	
Physical Address			
1441 EAST WASHINGTON BLVD LOS ANGELES 90021 C	7/1/2021	6/30/2022	
Email Address			
Trade Name/DBA	7/1/2022	6/30/2023	
License Number(s)	- 111005	2/22/222/	
CSLB:989497	7/1/2023	6/30/2024	
CSLB:989497	7/1/2024	6/30/2027	

Legal Entity Information

Corporation Number:

Agent of Service Name:

CT Corporation System

Agent of Service Mailing Address:

330 Brand Blvd STE 700 Glendale 91203 CA United States of America

Workers Compensation

Do you lease employees No through Professional Employer Organization (PEO)?:

Please provide your current workers

compensation insurance information below:

PEO PEO PEO

PEO InformationName Phone Email

Insured by Carrier

Policy Holder Name: Workers Compensation **Insurance Carrier:** AIU Insurance Co.

Policy Number:049154513Inception date:10/31/2023Expiration Date:12/31/2024