



Council Business Meeting

December 5, 2023

Agenda Item	Approval of a Sole Source Purchase from Veolia Water Technologies & Solutions – Wastewater Membrane Filters	
From	Scott Fleury PE	Public Works Director
Contact	Scott.fleury@ashland.or.us	
Item Type	Requested by Council <input type="checkbox"/> Update <input type="checkbox"/> Request for Direction <input checked="" type="checkbox"/> Presentation <input type="checkbox"/>	

SUMMARY

Before the Council is a request to approve a Sole Source Procurement with Veolia Water Technologies & Solutions in the amount of \$1,477,645.00 for replacement of two membrane filter trains that are critical to the wastewater treatment plant operations. The equipment is proprietary and not available through another source.

POLICIES, PLANS & GOALS SUPPORTED

City Council Goals:

Essential Services

- Sewer

Value Services:

Emergency Preparedness

Address Climate Change

CEAP Goals:

Address Climate Change by helping to reduce Ashland's greenhouse gas emissions and to prepare the city's communities, systems, and resources to be more resilient to climate change impacts.

Department Goals:

- Maintain existing infrastructure to meet regulatory requirements and minimize life-cycle costs
- Deliver timely life cycle capital improvement projects
- Maintain and improve infrastructure that enhances the economic vitality of the community
- Evaluate all city infrastructure regarding planning management and financial resources

PREVIOUS COUNCIL ACTION

N/A

BACKGROUND AND ADDITIONAL INFORMATION

The City owns and operates the Ashland Wastewater Treatment Plant (WWTP). The plant has numerous critical systems that allow it to operate and meet National Pollution Discharge Elimination System (NPDES) permit requirements. The NPDES is regulated by the Department of Environmental Quality (DEQ). One critical component is the membrane filtration system. The City is required to remove phosphorous from the waste water. Removal of phosphorous is accomplished with the use of membrane filters. The membrane filtration system is operated during the May to November period each year to remove excess the excess phosphorous from the wastewater





Council Business Meeting

before it is released into Ashland Creek and soon to be Bear Creek. Phosphorous is a soluble nutrient that most wastewater treatment plants cannot remove without special treatment processes. While phosphorus does not pose any health risk to humans and is not toxic to fish, it does cause algal growth, particularly in warm, slow moving waters. Excessive algal growth can impact fish by depleting oxygen and causing fluctuations in PH.

The membrane treatment system consists of filtration “modules”; there are 20 “modules” to one “cassette” and ten “cassettes” to one “train”. Each train therefore has 200 filtration membrane modules that are used to remove excess phosphorus. The treatment plant currently has four treatment trains and the plant is currently experiencing failures in the oldest membranes thus reducing the ability to meet the permit requirements for phosphorous removal.

As part of a life cycle replacement program a portion of the membrane filtration system is due to be replaced. Membranes have an expected life of ten years and two of four trains in operation have reached the end of their useful life.

FISCAL IMPACTS

Funds to support the purchase of two replacement membrane filter trains are within the approved 23-25 Wastewater Capital Improvement Program and budgeted for in the equipment replacement fund. Since the replacement of two trains in 2011, \$200k a year was put into the equipment fund to cover the cost of replacement. In 2019 a one-time transfer of \$460k was also added to the equipment fund providing for \$2.6 million in fund availability for membrane replacement.

STAFF RECOMMENDATION

Staff recommends approval of the Sole Source purchase from Veolia Water Technologies & Solutions in the amount of \$1,477,645.00.

ACTIONS, OPTIONS & POTENTIAL MOTIONS

I move to approve a Sole Source purchase with Veolia Water Technologies & Solutions in the amount of \$1,477,645.00 and authorize the Interim City Manager to sign the contractual agreement.

REFERENCES & ATTACHMENTS

Attachment #1: Sole Source – Form 6

Attachment #2: Veolia Replacement Letter

Attachment #3: Veolia Membrane Proposal

SOLE-SOURCE DETERMINATION AND WRITTEN FINDINGS**GOODS AND SERVICES**
Greater than \$100,000

To: *Sabrina Cotta, Interim City Manager*

From: *Scott Fleury PE, Public Works Director*
City of Ashland Public Works

Date: *November 27, 2023*

Re: **Sole Source Determination and Written Findings for Goods and Services**

In accordance with AMC 2.50.090(F), the Department Head shall determine in writing that there is only one provider of a product or service of the quality and type required available.

Estimated total value of contract: *\$1,477,645.00*

Project name: *Wastewater Treatment Plant Membranes Replacement*

Description of goods and services: *Provide Replacement ZW500D's 20/20 Membrane Filters, including all materials, off-site labor and delivery of items set forth in the proposal from Veolia Water Technologies & Solutions.*

Background: *The City owns and operates the Ashland Wastewater Treatment Plant (WWTP). The plant has numerous critical systems that allow it to operate and meet National Pollution Discharge Elimination System (NPDES) permit requirements. The NPDES is regulated by the Department of Environmental Quality (DEQ). One critical component is the membrane filtration system. The City is required to remove phosphorous from the waste water. Removal of phosphorous is accomplished with the use of membrane filters. The membrane filtration system is operated during the May to November period each year to remove excess the excess phosphorous from the wastewater before it is released into Ashland Creek and soon to be Bear Creek. Phosphorous is a soluble nutrient that most wastewater treatment plants cannot remove without special treatment processes. While phosphorus does not pose any health risk to humans and is not toxic to fish, it does cause algal growth, particularly in warm, slow-moving waters. Excessive algal growth can impact fish by depleting oxygen and causing fluctuations in PH.*

The membrane treatment system consists of filtration "modules"; there are 20 "modules" to one "cassette" and ten "cassettes" to one "train". Each train therefore has 200 filtration membrane modules that are used to remove excess phosphorus. The treatment plant currently has four treatment trains, and the plant is currently experiencing failures in the oldest membranes thus reducing the ability to meet the permit requirements for phosphorous removal.

As part of a life cycle replacement program a portion of the membrane filtration system is due to be replaced. Membranes have an expected life of ten years and two of four trains in operation have reached the end of their useful life.

Findings:

Market Research Overall finding:

Our research shows that only Veolia Water Technologies & Solutions are compatible with our existing membranes as confirmed in the attached letters from Veolia. There are no other Companies that can provide equipment compatible for replacement.

[In accordance with ORS 279B.075, these are the examples of findings that should be addressed. Select at least one of the findings and prepare the determination as it specifically relates to the goods or services being procured. More than one finding can be addressed. The findings are as follows.]

Pursuant to ORS 279B.075 (2)(a): Provide findings supporting your determination that the efficient utilization of existing goods requires the acquisition of compatible goods or services from only one source.

Any replacement materials and/or components to existing membranes have to be compatible with Veolia systems which are only supplied by Veolia Water Technologies & Solutions. Replacing them with a different system would require a redesign and upgrade to our membrane system. Therefore, Staff recommends replacement with the Veolia Water Technologies & Solutions membrane trains as there are no other compatible companies.

Pursuant to ORS 279B.075 (2)(b): Provide findings supporting your determination that the goods or services required for the exchange of software or data with other public or private agencies are available from only one source.

N/A

Pursuant to ORS 279B.075 (2)(c): Provide findings supporting your determination that the goods or services are for use in a pilot or an experimental project.

N/A

Pursuant to ORS 279B.075 (2)(d): Any other findings that support the conclusion that the goods or services are available from only one source.

None

PUBLIC NOTICE:

Pursuant to OAR 137-047-0275 (2), a Contracting Agency shall give public notice of the Contract Review Authority’s determination that the Goods and Services or class of Goods and Services are available from only one source in a manner similar to the public notice of Competitive Sealed Bids under ORS 279B.055(4) and OAR 137-047-0300. The public notice shall describe the Goods or Services to be acquired by a Sole Source Procurement. The Contracting Agency shall give such public notice at least seven days before Award of the Contract.

After the Sole Source Procurement has been approved by the City Council, the following public notice will be posted on the City’s website to allow for the seven (7) day protest period.

Date Public Notice first appeared on www.ashland.or.us – *December 6, 2023*

PUBLIC NOTICE
Approval of a Sole Source Procurement

First date of publication: *December 6, 2023*

A request for approval of a Sole Source procurement was presented to and approved by the City Council, acting as the Local Contract Review Board, on *December 5, 2023*.

It has been determined based on written findings that the following Goods and Services are available from only one source.

Wastewater Treatment Plant membrane filters provided by Veolia Water Technologies & Solutions.

The contract terms, conditions and specifications may be reviewed upon request by contacting *Scott Fleury PE, Public Works Director, 541-488-5347, scott.fleury@ashland.or.us*.

An affected person may protest the determination that the goods and services are available from only one source in accordance with OAR 137-047-0710. A written protest shall be delivered to the following address: City of Ashland, Scott Fleury PE, Public Works Director, 20 East Main Street, Ashland OR, 97520. The seven (7) day protest period will expire at 5:00pm on *December 13, 2023*.

This public notice is being published on the City’s Internet World Wide Web site at least seven days prior to the award of a public contract resulting from this request for approval of a Sole Source procurement.



City of Ashland
1195 Oak St,
Ashland OR 97520

Jason Diamond
Municipal Regional Lifecycle Manager
Water Technologies & Solutions

October 30, 2023

Dear Mr. Russell:

This letter is provided to confirm that a Sole Source Purchase with ZENON Environmental Corporation, a legal entity of Veolia Water Technologies & Solutions (Veolia WTS), will be required to procure parts and/or services for ZeeWeed® hollow fiber immersed ultrafiltration membrane systems. ZeeWeed® membrane systems are a proprietary technology developed by ZENON Environmental Corporation, a wholly owned business of Veolia WTS, subject to multiple patents. As a result, only Veolia WTS can manufacture and supply ZeeWeed® membranes & components directly to customers or via one of our approved partners.

Research and development work by Veolia WTS is regularly producing process and technology upgrade options. At the point where system upgrades are required, Veolia WTS will work closely with each client to select the best options specific for your plant.

Veolia WTS has structured the after-purchase support of our ZeeWeed® clients to assure access to a very high level of service and product support. VWTS has a service team with extensive experience and the capabilities to provide technical and engineering services distinctive to maintaining a high level of performance from the ZeeWeed® hollow fiber ultrafiltration membranes. VWTS offers these unique services:

1. Membrane Replacement Planning
2. System spare parts
3. Insight™ Remote Process Monitoring
4. 24/7 Emergency Telephone Technical Support
5. On-Site Service Visits
6. Membrane Maintenance Services & System Upgrades
7. PLC Control System Component and Programming Upgrades

If you have any questions, please do not hesitate to contact me.

Sincerely,

A handwritten signature in black ink that reads "Jason Diamond".

Jason Diamond, P.Eng.
Regional Lifecycle Manager - Veolia Water Technologies & Solutions



Membrane Replacement Proposal

To:	City of Ashland, referred to here as Ashland or Buyer	Date:	October 20, 2023
		No. of Pages:	30 including cover
Attention:	Ben Russell	Email:	ben.russell@ashland.or.us
Plant Address:	1295 Oak Street, Ashland, OR 97520 USA	Telephone No.:	541 552 2335
		From:	Jason Diamond Regional Lifecycle Manager Western USA
		Email:	jason.diamond@veolia.com
		Cell No.:	905 399 7055
CC:	Shawn Clark (APSCO)		
Subject:	Membrane replacement for trains 3 & 4	Proposal No.:	531996-1
		Original Project No.:	500127
Plant Data:	Please provide corrections if inaccurate City of Ashland Wastewater Treatment Plant ZW500 tertiary treatment: Trains 1 & 2 – 8 x ZW500Ds 20/20M cassettes with 350ft ² membranes + 2 x ZW500C 26M cassettes with 220ft ² membranes. Trains 3 & 4 – 10 x ZW500C 26/26M cassettes with 220ft ² membranes. Initial substantial completion date: October 17, 2002		



Proposal Provisos

This proposal has been issued based on the information provided by the customer and on information currently available to Veolia Water Technologies & Solutions at the time of proposal issuance. Any changes or discrepancies in site conditions, including but not limited to changes in system influent water characteristics, changes in environmental health and safety (EH&S) conditions, changes in the reissued state/provincial disposal system permit, changes in buyer financial standing, buyer requirements, or any other relevant change or discrepancy in the factual basis upon which this proposal was created may lead to changes in the offering, including but not limited to changes in pricing, guarantees, quoted specifications, or terms and conditions.

Confidential and Proprietary Information

The enclosed materials are considered proprietary property of Veolia Water Technologies & Solutions (Veolia). No assignments, either implied or expressed, of intellectual property rights, data, know how, trade secrets or licenses of use thereof are given. All information is provided exclusively to the addressee and agents of the addressee for the purposes of evaluation and is not to be reproduced or divulged to other parties, nor used for manufacture or other means, without the express written consent of Veolia. The acceptance of this document will be construed as an acceptance of the foregoing.

Trademarks

The following are trademarks of Veolia Water Technologies & Solutions and may be registered in one or more countries:

+100, ABMet, Absolute.Z, Absolute.Za, AccuSensor, AccuTrak, AccuTrak PLUS, ActNow, Acufeed, ALGAECAP, AmmCycle, Apogee, APPLICATIONS ATLAS, AquaFloc, AquaMax, Aquamite, Aquaplex, AquaSel, Aquatrex, Argo Analyzer, AutoSDI, BENCHMARK, Betz, BetzDearborn, BEV Rite, BioHealth, BioMate, BioPlus, BIOSCAN, Bio-Trol, Butaclean, Certified Plus, CheckPoint, ChemFeed, ChemSensor, ChemSure, CHEX, CleanBlade, CLOROMAT, CoalPlus, COMP-METER, COMP-RATE, COMS (Crude Overhead Monitoring System), Continuum, CopperTrol, CorrShield, CorTrol, Custom Clean, Custom Flo, Cyto3, DataGuard, DataPlus, DataPro, De:Odor, DELTAFLOW, DEOX, DeposiTrol, Desal, Dianodic, Dimetallic, Dispatch Restore, Durasan, DuraSlick, Durasolv, Duratherm, DusTreat, E-Cell, E-Cellerator, ELECTROMAT, Embreak, EndCor, EXACT, FACT-FINDER, Feedwater First, Ferrameen, Ferroquest, FilterMate, Fleet View, FloGard, Flotrex, Flotronics, FoamTrol, FoodPro, Fore4Sight, ForeSight, FRONTIER, FS CLEAN FLOW, FuelSolv, Full-Fit, G.T.M., GenGard, GEWaterSource, Glegg, Heat-Rate Pro, High Flow Z, HPC, HPD Process, HyperSpense, Hypure, Hytrex, InfoCalc, InfoScan, InfoTrac, InnovOx, InSight, IONICS, IONICS EDR 2020, IPER (Integrated Pump & Energy Recovery), iService, ISR (Integrated Solutions for Refining), JelClever, KlarAid, Kleen, LayUp, Leak Trac, Leakwise, LEAPmbr, LEAPprimary, Learning Source, LOGIX, LoSALT, M-PAK, MACarrier, Mace, Max-Amine, MegaFlo, Membrex, MemChem, Memtrex, MerCURxE, MetClear, MiniWizard, MK-3, MOBILEFLOW, MobileRO, Modular Pro, ModuleTrac, MonitAll, Monitor, Monitor Plus, Monsal, MP-MBR, MULTIFLOW, Muni.Z, NEWater, NGC (Next Generation Cassette), Novus, NTBC (Non Thermal Brine Concentrator), OptiGuard, OptiSpense, OptiTherm, Osmo, Osmo PRO, Osmo Titan, Osmonics, Pacesetter, PaceSetter, Petroflo, Petromeen, pHlimPLUS, PICOPORE, PlantGuard, PolyFloc, PowerTreat, Predator, PRO E-Cell, Pro Elite, ProCare, Procera, ProChem, Proof Not Promises, ProPAK, ProShield, ProSolv, ProSweet, Purtrex, QSO (Quality System Optimization), QuickShip, RCC, RE:Sep, Rec-Oil, Recurrent, RediFeed, ReNEW, Renewell, Return on Environment, RMS (Rackless Modular System), ROSave.Z, SalesEdge, ScaleTrol, SeaPAK, SeaPRO, SeaSMART, Seasoft, SeaTECH, Selex, Sencicore, Sentinel, Sepa, Sevenbore, Shield, SIDTECH, SIEVERS, SmartScan, SoliSep, SolSet, Solus, Spec-Aid, Spectrus, SPLASH, Steamate, SteriSafe, Styrex, SUCROSOFT, SUCROTEST, Super Westchar, SuperStar, TFM (Thin Film Membrane), Therminator, Thermoflo, Titan RO, TLC, Tonkaflo, Travelab, Trend, TruAir, TrueSense, TurboFlo, Turboline, Ultrafilic, UsedtoUseful, Vape-Sorber, VeriFeed, VersaFlo, Versamate, VICI (Virtual Intelligent Communication Interface), V-Star, WasteWizard, WATER FOR THE WORLD, Water Island, Water-Energy Nexus Game, WaterGenie, WaterNODE, WaterNOW, WaterPOINT, WellPro.Z, XPIeat, YieldUp, Z-BOX, Z-MOD, Z-PAK, Z-POD, ZCore, ZeeBlok, ZeeLung, ZeeWeed, ZENON, and Z.Plex.



Table of Contents

1	Introduction.....	4
2	Veolia Scope & Price	5
3	Material Description.....	8
3.1	Membrane Modules	8
3.2	Cassettes.....	8
3.3	Cassette Hanger Arms.....	8
3.4	Cassette Spool Components.....	8
3.5	Consumables.....	8
4	Delivery	9
5	Veolia Support	10
5.1	Off-Site Support	10
5.2	On-Site Technical Services.....	10
6	ZeeWeed Configuration.....	12
7	Scope - Ashland.....	13
7.1	Installation Preparation	13
7.2	Installation.....	13
8	Solution Design Notes.....	14
8.1	Permits	14
8.2	Maintenance Notes for Replacement Membranes.....	15
8.3	Technical	15
9	Health & Safety	16
10	ZeeWeed Membrane Module Standard Warranty	17
11	Terms and Conditions of Sale	20
12	Signed Agreement	22
	Attachment A Veolia Standard Terms and Conditions	23
	Attachment B ZENON Environmental Corporation W9.....	29

1 Introduction

Veolia Water Technologies & Solutions is pleased to present this proposal at the request of City of Ashland to provide membrane modules and cassettes to replace two ZW500C trains (trains 3 & 4) at the City of Ashland Wastewater Treatment Plant (WWTP).

Veolia has provided two options in this proposal:

- **Option 1** - 8 x ZW500Ds 20/20M cassettes per train (16 populated cassettes total);
- **Option 2** - 10 x ZW500Ds 20/20M cassettes per train (20 populated cassettes total).

Veolia is a proven leader in delivering tangible value to our clients over the life of the plant. Our measure of success is how well we deliver **solutions** that help our clients meet their critical business objectives.

Through long-acquired technical experience, Veolia has clearly distinguished itself from other membrane manufacturers. A mature service culture and deep technical expertise are ready to serve and support Ashland through this next membrane lifecycle.



2 Veolia Scope & Price

Veolia's scope includes the material and services outlined in the table below. The sections that follow provide additional detail regarding each scope item.

Option 1

Item Description	Part #	Quantity	Price
ZW500Ds 20/20M cassette with 350ft ² membrane modules, section 3.1& 3.2	3144414	16	1,073,795
2-year full replacement membrane warranty, section 10		incl.	
Hanger arms and hardware, section 3.3		16 sets	
Cassette spools (permeate & aeration), section 3.4		16 sets	
Consumables, section 3.5		lot	
Off-site support, project management, section 5.1		incl.	36,955
International shipment, fees and duties, section 4		incl.	68,405
Freight, DDP City of Ashland WWTP, section 4	3095534	incl.	
Material, off-site labor, delivery		Sub-total	1,179,155
On-site support, 1 FSR, 6 x 10-hr days on-site plus travel & living, section 5.2	135491	1 visit	15,960
On-site support		Sub-total	15,960
All figures are in USD and exclude taxes, which will be applied at the time of invoicing. Please make purchase order to ZENON Environmental Corporation.		Total Price	1,195,115



Option 2

Item Description	Part #	Quantity	Price
ZW500Ds 20/20M cassette with 350ft ² membrane modules, section 3.1& 3.2	3144414	20	1,338,285
2-year full replacement membrane warranty, section 10		incl.	
Hanger arms and hardware, section 3.3		20 sets	
Cassette spools (permeate & aeration), section 3.4		20 sets	
Consumables, section 3.5		lot	
Off-site support, project management, section 5.1		incl.	42,245
International shipment, fees and duties, section 4		incl.	79,055
Freight, DDP City of Ashland WWTP, section 4	3095534	incl.	
Material, off-site labor, delivery		Sub-total	1,459,585
On-site support, 1 FSR, 7 x 10-hr days on-site plus travel & living, section 5.2	135491	1 visit	18,060
On-site support		Sub-total	18,060
All figures are in USD and exclude taxes, which will be applied at the time of invoicing. Please make purchase order to ZENON Environmental Corporation.		Total Price	1,477,645

Proposal Notes:

- Veolia would like to note that under the current exceptional circumstances across global supply chains and logistics networks, Veolia may not be in a position to guarantee and comply with the planned schedule for product / project delivery or performance. Veolia reserves the right to modify the schedule / contract accordingly. Veolia will promptly inform you of any changes which may impact the contract or the project.
- **Price Review.** Notwithstanding the terms set forth herein or of any agreement or acceptance of Seller's quotation, Seller reserves the right at any time and from time to time by notice in writing to the Buyer to (a) determine periodic price reviews based on Goods' raw material increase arising from currency devaluations (b) increase Prices (or impose temporary price adjustments) based on increases in the cost of base components for the Goods or Services provided, where the increase is due to increased global demand, limited supply, temporary product shortages, allocation of supply, or such other similar inflationary pressures; and (c) impose a surcharge equal to any increase in the cost of the Goods or Services as a result of a modification of exchange rates, duties, taxes or other levies imposed by public authorities.
- Veolia's proposed price for ZeeWeed membranes is subject to adjustment between the period from the expiry of the proposal validity up to shipment of membranes according to upward changes in the following indices:



- 40%: PPI Industry Index for Hungary: [LINK to Industry Index](#)
- 60%: PPI Chemical Industry for European Union: [LINK to EU Chemical PPI](#)

In the event that either index becomes unavailable, a suitable equivalent replacement index will be agreed between the parties. The buyer has the right to request that the supplier supports any price increase with market pricing data, within the bounds of commercial confidentiality.

- Shipment/Collection Delays: The membrane sale will be subject to price adjustment if not collected within 1 month of Readiness for Shipment. After the one month of Readiness for Shipment if Purchaser does not send his agreement to receive or collects the membranes (depending on Incoterms), Seller is entitled to reallocate the membranes to another customer.

Invoicing Schedule	Approximate % of Sub-Total	Invoice Value, Excluding Tax	
		Option 1	Option 2
Materials and Off-Site Support Invoicing			
An invoice will be issued upon acceptance by Veolia of customer purchase order. Approximate percent calculation based on the material, off-site labor, delivery sub-total of the purchase order. Shipment of membranes is contingent on receipt of this initial milestone payment.	30%	353,745	437,875
An invoice for the balance of the material, off-site labor, delivery sub-total will be issued when membrane module shipping documents are supplied to the carrier.	70%	825,410	1,021,710
On-Site Support Invoicing			
A final invoice for the on-site support sub-total will be issued upon completion of installation.	100%	15,960	18,060
		1,195,115	1,477,645
All totals subject to applicable taxes, which will be added at time of invoicing.			

3 Material Description

The following materials are provided within Veolia's scope of supply.

3.1 Membrane Modules

Option 1

320 x ZeeWeed 500Ds 350ft² membrane modules.

Option 2

400 x ZeeWeed 500Ds 350ft² membrane modules.

3.2 Cassettes

Option 1

16 x ZeeWeed 500Ds 20/20M cassettes.

Option 2

20 x ZeeWeed 500Ds 20/20M cassettes.

Note: membranes from section 3.1 will be factory installed in the above cassettes, 20 membranes per cassette.

3.3 Cassette Hanger Arms

Option 1

32 hanger arms and associated hardware (2 hanger arms required per cassette).

Option 2

40 hanger arms and associated hardware (2 hanger arms required per cassette).

3.4 Cassette Spool Components

Option 1

16 sets of cassette spool components for both aeration and permeate spools (includes camlocks, PVC pipe, elbows, hose clamps, etc.).

Option 2

20 sets of cassette spool components for both aeration and permeate spools (includes camlocks, PVC pipe, elbows, hose clamps, etc.).

Note: cassette spool components do not include hose or fittings at the header end of the spools, as these items are considered to be available at site.

3.5 Consumables

- 1 x o-ring lubricant;
- 2 x anti-seize lubricant (food grade).

4 Delivery

o Freight

- o **DDP** - Delivery will be by standard ocean/ground on the basis of DDP Ashland WWTP, 1295 Oak Street, Ashland, OR, USA or other named place of destination; Incoterms 2020. DDP = delivery duty paid. Partial shipments will be acceptable unless otherwise specified. Where delivery cannot be accepted at this destination, Ashland shall specify an alternate, equivalent destination without delay.

Due to varying origins and availability, non-membrane items included in this proposal may be shipped separately from the membranes. Should separate shipments be required, where possible, Veolia will strive to provide these items on or before the delivery of the membranes.

- o **Title & Risk** - Title and risk of loss or damage to membrane modules, cassette frames, hardware and crating shall pass to Ashland upon delivery at the named place of destination.

o International Shipment, Fees, and Duties

- o Origin - Delivery of ZeeWeed membranes originates from the Veolia Water Technologies & Solutions, ZENON Membrane Products (ZEM), Bláthy Ottó u 4, Oroszlány, 2840 Hungary facility. Costs to transport membranes into North America are included in Veolia's quoted price.
- o Export Documents - All ZeeWeed membrane module shipments into the USA require clearance documentation from the EPA. Veolia will prepare and provide the required EPA documentation to the Carrier.
- o MPF - Merchandise processing fee is a fee assessed for formal custom entries based on 0.35% of the invoice value, with a minimum of USD \$25 per formal entry and a maximum of USD \$485. On the basis of DDP terms, this fee will be paid by Veolia within the quoted price.
- o Duty - Any new duty imposed after the date of this proposal is the responsibility of Ashland.
- o Taxes - All applicable local, state, or federal taxes are the responsibility of Ashland, and will be added at time of invoicing.
- o Temperature - UF membranes cannot be allowed to freeze or overheat and may require temperature-controlled freight and handling according to the season and the planned routing. If required, the price of temperature control will be included within the firm quote on freight by Veolia.
- o Packaging – Factory-installed in operational cassettes.
- o Unloading - may require one of or a combination of a loading dock, extended forks and an experienced forklift driver at delivery destination. Please consult with Veolia at the time of purchase order (PO) preparation on this.



shipping crate information (estimated – quantity depends on option selected)

Description	Dimensions (LxWxH) (in)	Weight (lb.)
ZW500Ds 20/20M cassette	75 X 35 X 94	1,451

Notes:

- Only crates for membrane/cassette transport have been shown above to identify the largest and heaviest items that will need to be unloaded;
- Smaller crates/skids will be used for hardware items (hanger arms, spool connection components, etc.).
- **Availability** - Delivery of membrane modules and cassettes is typically 10-20 weeks after receipt of order.

With current global logistics and freight delays, delivery is estimated at **60 - 62** weeks after receipt of order.

Definitive availability will be confirmed once a purchase order is received from Ashland and acknowledgement of a purchase order is issued by Veolia.

5 Veolia Support

5.1 Off-Site Support

Controls

Provide system controls programming adjustments as required for the new membranes.

Documentation

The base level of documentation updates will include:

- Summary of any significant changes to the current program or controls (HMI screens, SCADA, etc.);
- Updated Controls Documents (CN, OSC, CLC) as appropriate and issued electronically;
- Field/hand markups of P&ID drawings
- Updated P&ID and GA drawings issued electronically.

These electronic updates should be filed in the O&M manual as interim documentation.

Project Management

Provide planning and off-site assistance during the membrane replacement project.

5.2 On-Site Technical Services

The proposal includes a provision for technical services during installation and commissioning process to support Ashland's staff as outlined in section 2. On-site services is positioned in the price table (section 2) such that the price without this scope is easily defined should it not be required.

Please see section 7.2 for recommendations on the number of plant staff necessary to perform the work.



Installation and commissioning of membranes will be executed one train at a time to minimize down-time and to return each train to beneficial use in a timely manner.

The following activities will be completed by plant staff in collaboration with Veolia on-site FSR support:

- Remove existing membranes/cassettes;
- Install hanger arms and assembly of new cassette spools;
- Install the new membrane modules/cassettes;
- Revise programming and/or set-points as required;
- Perform bubble test where applicable to test membrane integrity and review trans membrane pressure (TMP) on the installed membranes and compare to expected values for new membranes; complete repairs/adjustments necessary to provide new membrane performance.

Operating Responsibility - Ashland retains control of the work site and retains final responsibility for the installation and commissioning process.

Veolia will perform the services specified in the scope section of this document, but Veolia will not operate the system. For the purposes of this agreement, the term “operate the system” shall mean to run or control the functioning of the equipment or to otherwise conduct or manage the affairs of any aspect of water or wastewater treatment or other functions at Ashland’s site, and shall include functions such as providing operators or laborers to adjust or control water treatment (“WT”) equipment, wastewater treatment (“WWT”) equipment or sludge management facilities (“SMF”), providing program oversight or directing on-site or contract operators/laborers to adjust or control WWT or SMF, providing personnel responsible for or providing oversight of water treatment residual quality, wastewater effluent quality, sludge quality, waste characterization, or waste disposal activities, or providing personnel with continual or daily operational responsibilities with respect to water or wastewater treatment, influent or effluent compliance monitoring, process monitoring, government reporting or notification, or permit compliance.

Waiting Time - Any overtime or waiting times required due to unforeseen site events outside the control of Veolia will be invoiced according to the prevailing Veolia service labor rates sheet, available on request.

Reporting - Before leaving site, Veolia will record observations and discuss with operators concerning the condition of the equipment, tasks accomplished during the visit, and key operating and maintenance issues requiring further attention. Veolia will provide a copy of a written report before leaving site and/or provide a service visit report to the plant operator within a reasonable timeframe of the Veolia service representative’s return to the office. In any case, Ashland will be asked to sign a work order that describes the hours on site and tasks accomplished.

Veolia Duties for On-Site Services

- Veolia will coordinate its work under this agreement in a reasonable manner with the operating staff of the facility.
- Veolia will maintain public liability and property damage insurance covering all operations undertaken by Veolia and its sub-contractors with a limit of \$5,000,000 inclusive for any one accident or occurrence. If for any reason additional insurance coverage (e.g. general construction/erection all risk, general liability) is required above and beyond Veolia’s standard insurance terms for on-site commissioning supervision, Ashland must inform Veolia in writing



60 days prior to work commencement at site. Ashland will be billed for all additional insurance costs and processing fees.

- Veolia will maintain workers compensation and employers' liability coverage as per statutory requirements.

6 ZeeWeed Configuration

Option 1

Configuration Data	Units	proposed configuration after Train 3 & 4 replacement		
		Train 1 & 2		Train 3 & 4
Number of trains, plant		4		
Number of trains as configured		2		2
Type of ZeeWeed membrane		ZW500C	ZW500Ds	ZW500Ds
Module surface area	ft ²	220	350	350
Total number of cassette spaces per train		10		10
Maximum number of modules per cassette		26	20	20
Fully populated cassettes installed per train		2	8	8
Total module count, train		52	160	160
Total surface area in operation, train	ft ²	67,440		56,000
Total module count, plant		104	640	
Total surface area in operation, plant	ft ²	246,880		
% surface area change from existing, plant	%	-1.0%		

Option 2

Configuration Data	Units	proposed configuration after Train 3 & 4 replacement		
		Train 1 & 2		Train 3 & 4
Number of trains, plant		4		
Number of trains as configured		2		2
Type of ZeeWeed membrane		ZW500C	ZW500Ds	ZW500Ds
Module surface area	ft ²	220	350	350
Total number of cassette spaces per train		10		10



Configuration Data	Units	proposed configuration after Train 3 & 4 replacement		
		Train 1 & 2		Train 3 & 4
Maximum number of modules per cassette		26	20	20
Fully populated cassettes installed per train		2	8	10
Total module count, train		52	160	200
Total surface area in operation, train	ft ²	67,440		70,000
Total module count, plant		104	720	
Total surface area in operation, plant	ft ²	274,880		
% surface area change from existing, plant	%	10.3%		

7 Scope - Ashland

7.1 Installation Preparation

- Receive, off-load, handle and provide temperature-controlled storage of the equipment and materials required for Seller to perform the duties outlined in the Seller’s scope of supply. Prior to off-loading, Buyer to confirm temperature indicators have not been tripped.
- Membranes must be stored in a sheltered area, protected from freezing, direct sunlight or extreme heat, and sealed as shipped until ready for use. Storage should be in a dark, dry, level area at a temperature of 5-30°C (41-86°F). Membranes have a shelf life of 1 year before requiring re-preservation and should not be stored longer than necessary prior to installation. Ashland is responsible for risk of loss of Seller’s parts while in storage at the customer’s plant.
- Inspect, evaluate and make repairs as required for the membrane tanks, mounting brackets, hoses and all connections prior to Veolia arriving at site.
- Provide all access structures (such as scaffolding) and mechanical lifting equipment including cranes, forklifts and scissor lifts.
- Assure availability of a copy of the operating manual, all process and instrumentation drawings, and all electrical drawings on site and accessible for reference.
- Maintain adequate insurance coverage for the risks of fire, theft, vandalism, floods and personal injury to authorized or unauthorized visitors.

7.2 Installation

- Provide 1 or more plant personnel to work continuously for the full duration of the Veolia site visits during installation and commissioning of the modules. Veolia recommends that at least one of the personnel be experienced with the ZeeWeed system.



- Ashland will afford Seller's personnel free access and egress of the facility for all authorized work. Ashland will provide reasonable access to workshop facilities with standard workshop tools and equipment as is necessary to meet any repair and maintenance requirements of the system during installation. Ashland will provide Seller's personnel reasonable access to the facility amenities, including washrooms and break rooms.
- Provide adequate illumination and emergency lighting for all areas in which the Seller will be executing the scope of supply. Provide all site utilities such as raw water, instrument quality air, potable water and power required for operation of the proposed equipment included in this scope of supply. Assure that adequate quantities of membrane cleaning and neutralizing chemicals are on hand for wash procedures including sodium hypochlorite, sodium bisulphite, citric acid and sodium hydroxide. Supply telephone/fax/modem access while Seller's staff members are on-site.
- Ashland will provide assistance to:
 - Remove cassettes from the system as required;
 - Install new cassettes with factory installed membranes, including hanger arm installation and assembly of new cassette spools.
- Ashland will:
 - Dispose of all retired membrane modules and cassette components;
 - Dispose of shipping and packaging materials unless specifically requested not to do so by Veolia.

8 Solution Design Notes

8.1 Permits

Regulatory Requirements

Ashland is responsible to review and report to the permit granting agency on the impact of any of the proposed changes on the regulatory permit. Veolia will provide the necessary manufacturer's technical support on regulatory issues.

Please speak with your regional lifecycle manager (RLM) if there are any regulatory requirements or concerns.

Utilization

Veolia understands that these modules are required as replacements for currently installed modules.

These modules are offered on the basis that the membrane modules will not be used to provide expanded flow beyond the current plant flow rating. Veolia makes no guarantees, implied or otherwise as to the performance of these modules in any other capacity than as replacement membranes.

Production Interruption

After the purchase order is acknowledged, Veolia's project manager for the installation will consult with Ashland to jointly develop the installation plan and work schedule with due regard for membrane delivery to the plant and plant preparation.



8.2 Maintenance Notes for Replacement Membranes

At the time of any full plant or full train membrane replacement, it is recommended to evaluate whether it is the right time to address any tank coating repairs which may be required.

Preferential Flow

Mixing a small proportion of new modules in trains with large amounts of older modules is not recommended as it creates a risk of over-fluxing of new modules, which can shorten their lives. For ZW500D membranes, the mixing of old and new modules in the same cassette makes slack adjustment more difficult. Veolia recommends that Ashland plan membrane module replacement on a complete cassette and complete train basis wherever possible to achieve both optimal performance and best value from the new membrane modules. In this case, by replacing all membrane modules on a per train basis, this risk has been neutralized.

Membrane Slack

Veolia's membranes are supplied and shipped with an initial factory fiber slack designed to optimize membrane air scouring during operation as well as accommodate a degree of shrinkage. Membranes shrink in length early in their lifecycle when exposed to higher temperature water. The pace of shrinkage slows with age. With the installation of new membranes, the requirements for slack adjustment start a new cycle.

Due to the wide variety of operating environments in which our products can be utilized, it is difficult to generally predict the rate of shrinkage. If membranes operate in a condition of insufficient slack for an extended period of time, irreversible damage to the fiber-urethane bond may occur. Please refer below to the recommended inspection frequencies based on your plant's membrane tank operating temperature. Visual inspections should begin during the membrane installation and be repeated over time on the same cassette. Digital pictures will allow for comparative analysis of the fiber slack over time.

Maximum Operating Temperature	Recommended Slack Inspection Frequency
0-24 °C / 32-76 °F	every 2 years
25-30 °C / 77-86 °F	once per year
>30 °C / > 86 °F	twice per year

Membrane Repairs

All new modules are factory tested at our manufacturing facilities and are in good working order as they are packaged and crated for shipment. On occasion, a limited number of modules arriving at site may require repairs due to uncontrollable factors during shipping and receiving, in particular with multi-modal shipments. Veolia recommends having one fiber repair kit on hand during the handling and installation of the drinking water modules.

8.3 Technical

Blowers

For the purposes of this proposal, the range of blower capacity has been assumed to be adequate for this upgrade.

Should resheaving parts be required they will be supplied by Veolia at additional cost to Ashland. Mechanical and electrical adjustments required to meet new air flow will be completed by Ashland or



their 3rd party designate. Veolia will assist Ashland in determining correct air flow requirements for the new plant configuration.

Pre-Screen

To ensure effective operation and to maximize membrane life, Veolia recommends operation of a pre-treatment screen, upstream of the pretreatment process, with mesh or punched-hole openings less than or equal to 0.5 mm and with no possibility of bypass or carryover. All processes after this screening must be covered and protected from outside elements such that no leaves, twigs or any foreign material can enter the membrane tank.

9 Health & Safety

Ashland

- Ashland will provide orientation to Seller's personnel to ensure site-specific safety protocols are known. Ashland will identify and inform Seller's personnel of any site-specific hazards present in the workplace that could impact the delivery of Seller's scope of supply and agrees to work with Seller to remove, monitor, and control the hazards to a practical level.
- Ashland will provide any site-specific or standard company operating procedures and practices for Seller's personnel to perform work on site, if required by Ashland's policies. Such programs may include, but are not limited to, general environmental health & safety (EHS), HAZOP, fire protection, drug testing, incident notice, site conduct, standard first aid, chemical receiving, electrical safety, etc. Ashland will provide a certificate of program completion for Seller's personnel. This program will be fully documented, training materials will be provided, and attendance list will be kept.
- If any type of lifting devices will be used on site, Ashland will provide proof of its maintenance, inspection and certification documentation upon request and will assist the Veolia service representative to complete a safety inspection checklist.
- Where confined space entry may be required, Ashland will provide early notice and will collaborate with Veolia in planning adequate staffing and in advising the local fire/rescue department as required.
- No time or cost provision has been made for preparations such as safety record clearances, drug testing, insurance confirmations or pre-job-training in excess of 1 hour. Prior to finalizing the Purchase Order and the work schedule, Ashland will advise Veolia of any pre-job or pre-mobilization requirements. Where these requirements exceed 1 hour, this time will be charged to Ashland at rates set out in the prevailing Veolia labor rate sheet.
- Where certain short duration activities require two people for safety and the Veolia Service representative is alone at site, Ashland will cooperate as required to assure that correct safety precautions are taken.
- Ashland is responsible for the following environmental provisions:
 - Environmental use and discharge permits for all chemicals at Ashland's facility either listed in this document or proposed for use at a later date;
 - Any special permits required for Seller's or Ashland's employees to perform work related to the water treatment system at the facility;



- All site testing, including soil, ground and surface water, air emissions, etc.;
- Disposal of all solid and liquid waste from the Seller's system including waste materials generated during construction, start up and operation.
- Ashland is responsible for provision of health and safety facilities to Seller's field service representatives to the same extent that they are provided to Ashland's own employees, including provision of:
 - Eyewash and safety showers in the water treatment area;
 - Chemical spill response;
 - Security and fire protection systems per local codes.

Veolia

- All work on site will be performed in accordance with applicable law and will be performed reasonably, in a clean and safe manner. The Veolia service representative will abide by the more stringent of the applicable health, safety and environmental policies and procedures of either Ashland or Veolia.
- Veolia will provide all applicable safety training required by Veolia policies or by state or national health and safety regulations. The Veolia service representative will have undergone workplace hazardous material information system (WHMIS) training and will come equipped with necessary personal protective equipment (PPE).
- Emergencies - In emergencies affecting the safety of persons, work or property at the site and adjacent thereto, Veolia will act, without previous instructions from Ashland, as the situation warrants. Veolia will notify Ashland immediately thereafter.

10 ZeeWeed Membrane Module Standard Warranty

This schedule sets out the warranty with respect to ZeeWeed membrane modules ("membrane modules"). No other warranties, expressed or implied are made in connection with the sale of these products, including, without limitation, warranties as to fitness for any purpose or use or merchantability of these products. The warranty provided herein will be the exclusive and sole remedy of Buyer. This warranty is not transferable.

1 Definitions

The follow terms shall have the meaning set forth below when used in the warranty document:

- a. "Buyer" means the party purchasing the ZeeWeed Modules from the Seller
- b. "Seller" means a business component of, or legal entity within the Veolia Water Technologies & Solutions business which is selling the ZeeWeed membranes.

1 Warranty Product

This warranty applies to only the membrane modules supplied under the contract of sale. Membrane module means the hollow fiber ultrafiltration membranes and the potted plastic headers. This warranty does not cover air piping to the membrane module, permeate piping from the membrane module, piping connection fittings, connecting hardware and cassette frames with their associated components including but not limited to spacers, aerator tubes, aerator assemblies, screen, module dummies or module blanks.



2 Scope of Warranty

The Seller warrants that its membrane module(s) will be free of defects due to faulty materials or errors in manufacturing workmanship.

Regular membrane module inspection and normal fiber repair shall be the responsibility of Buyer.

All replacement membrane modules will be shipped on the basis of INCOTERMS 2020 FCA Veolia manufacturing facility.

All ancillary costs including but not limited to bagging, boxing, crating, freight, freight insurance, applicable taxes, import duties, certifications, brokerage, receiving, forklift services, storage at site, reattachment hardware, hose/clamp/camlock replacement, crane services, installation, fiber repair materials, glycerin flushing, commissioning and waste disposal are the responsibility of Buyer.

3 Warranty Start Date

Membrane warranty will start on the earlier of:

- a. The date that installation of the original membrane module(s) has been substantially completed, or
- b. Three (3) months from the date of delivery of the original membrane module(s) to Buyer.

4 Warranty Duration

Total Warranty Duration: a total of **24** months of full replacement warranty coverage.

5 Notification Of Claim

All claims filed under this warranty shall be made in writing by Buyer within 30 days of identifying a defect.

Buyer shall provide the following information:

- a. A description of the defect giving rise to the claim;
- b. Photographs showing the manufacturing defect;
- c. The serial number(s) of the membrane module(s) which is (are) the subject of the warranty claim; and
- d. Operating data and repair history for the life of membrane modules which are the subject of a warranty claim.

6 Verification of Claim

After receipt of written notification of a defect, the Seller will promptly undertake such investigations as, in the Seller's opinion, are necessary to verify whether a defect exists. The Seller reserves the right to require additional data as necessary to validate claims. Buyer may, in the course of these investigations, be requested to return membrane module(s) to the Seller for examination (see section 11). The Seller may also conduct reasonable tests and inspections at Buyer's plant or premises. If the results of the investigation do not validate the defect claimed, Buyer will reimburse the Seller for all reasonable expenses associated with said investigation, including expenses for all tests, inspections, and associated travel.

7 Satisfaction of Claims

The Seller will have the right to satisfy claims under this warranty in a flexible manner. Such flexibility may include the repair of existing membrane modules or changes in operating protocols or membrane module replacement or by upgrading failed membrane modules with newer membrane module(s) that may embody design and efficiency improvements. Buyer consents to the supply of replacement membrane modules which may be of a different design than original membrane modules.



8 Operating Information

To maintain the membrane module warranty, membrane system operation records from initial start-up date until claim must be maintained by Buyer and made available to the Seller upon request. Records must be provided in sufficient detail as applicable to verify the subject of a warranty claim and can include but is not limited to, operation data including information on feed water quality, temperatures, flows, trans-membrane pressures, aeration rates, permeate quality, cleaning intervals, cleaning chemical concentrations, elapsed time since start-up, relevant analytical data and reporting of any screen bypass events.

Buyer shall maintain and share access to a single reference copy in electronic form of a membrane module map containing the history of activity by membrane module and the serial number for each module. Buyer shall log its procedures performed related to a membrane module including relocation of membrane modules, repairs, replacements and any other noteworthy events.

Buyer authorizes the Seller to conduct any reasonable review of operation and maintenance records or to inspect facilities where membrane modules are installed, upon reasonable notice to Buyer. Such reviews and/or inspections are intended to also assist the Seller and Buyer in detection of membrane system faults and to optimize the care and operation of the membrane modules.

9 Limitation of Warranties

Occurrence of any of the following as reasonably determined by the Seller will void this warranty:

- a. A material failure to operate the membrane system in accordance with Seller's operations and maintenance manual supplied to Buyer as part of the contract, including material failure to adhere to the Seller's specified membrane module cleaning procedures and the use of anything other than Seller-approved membrane module cleaning agents.
- b. Failure to adhere to the preventive maintenance program as presented in the Seller's operations and maintenance manual, in published product manuals and in specifications.
- c. Failure to adhere to all transportation and storage requirements. ZeeWeed membrane modules may be stored up to 12 months from date of receipt and must be transported and stored in original intact packaging out of direct sunlight in ambient temperatures between 5-35 Degrees Celsius. Storage beyond 12 months from date of receipt requires a written request to Veolia to maintain membrane module warranties.
- d. Introduction of destructive foreign materials and chemical agents into the membrane module.
- e. Failure to maintain and provide system operating data and repair history for the life of membrane modules which are the subject of a warranty claim.
- f. Physical abuse or misuse, incorrect removal or installation of membrane modules by non-Seller personnel including fiber damage caused by operator error in handling of membrane modules or cassettes.
- g. Unauthorized alteration of any components or parts originally supplied by the Seller.
- h. Intentional damage.

10 Return Procedure

In the event that the return of a membrane module is required pursuant to this warranty, Buyer will first obtain a Return Goods Authorization (RGA) number from the Seller. Membrane module(s) shipped to the Seller for warranty examination must be shipped freight prepaid in environmentally controlled freight and storage with ambient air temperature between 5-35 degree Celsius. If Buyer desires temporary replacement membrane module(s) to replace those alleged to be defective and returned to the Seller for warranty examination, Buyer shall be responsible for the cost associated with any such replacements until



examination of the returned membrane modules pursuant to this warranty is complete. Any membrane module examined by Seller as part of a warranty claim where the membrane module is subsequently found to be performing as warranted or where a membrane module failure is not covered under the warranty will be returned to Buyer, freight collect or disposed of by Seller and the cost associated with any membrane analysis and diagnostic work will be levied against the Buyer based on Veolia standard labor rates.

11 Disclaimer and Limitation on Liability

To the maximum extent permitted by law, in no event shall Seller be liable for any loss of profit or revenues, loss of production, loss of use of equipment or services or any associated equipment, interruption of business, cost of capital, cost of replacement water or power, downtime costs, increased operating costs, claims of Buyer’s customers for such damages, or for any special, consequential, incidental, indirect, punitive or exemplary damages arising out of or relating to the performance or actual or alleged breach of the agreement, regardless of whether a claim is based in contract (including warranty or indemnity), extra-contractual liability, tort (including negligence or strict liability), statute, equity or any other legal theory.

11 Terms and Conditions of Sale

A - Specific Terms and Conditions of Sale

These terms take precedence over the general terms and conditions of sale.

1 Legal Entity for Contracting

ZENON Environmental Corporation is the legal business entity name of the Seller for this product, and means a business component of, or legal entity within the Veolia Water Technologies & Solutions business (Veolia).

Please advise us if this Veolia entity is not set up in your purchasing system as a vendor and you do have another Veolia entity set up. We are keen to make the purchase process as convenient as possible for Ashland.

short form: Where a short reference is required in this document, for convenience, we are called simply **Veolia**.

2 Payment

Veolia prefers to receive payment by wire transfer and will also accept payment by courier check.

Wire transfer information for ZENON Environmental Corporation	
send details to: SHD WATS REMIT-NAM vtc.vwts.remit-nam.all@veolia.com	
Bank of America Merrill Lynch C/O ZENON Environmental Corporation 901 Main Street Dallas, TX 75202	ACCT# 4426318136 ABA# 026009593 SWIFT# BOFAUS3N ACH# 111000012

3 Payment Terms

On approved credit, payment terms are **net 30 days** from customer receipt of invoice. Please see the invoicing schedule in the price section. In the event an invoice is issued on shipment of goods from a Veolia Hungarian production facility, payment terms will be extended by an additional 45 days to account for the additional transit time to the delivery location.

4 Proposal Validity

Prices quoted and proposal terms are valid up to **thirty (30) days** after the date of issue of this proposal unless confirmed with a purchase order.

5 Bonds

Performance or payment bonds are not included in the price. These bonds can be purchased on request but will be at an additional cost.



6 Assignment of Membrane Warranty

The Buyer will be entitled to assign to a subsequent owner of the membranes the warranties of the Seller under this Agreement, provided that a prior written notification is sent to the Seller and the assignment agreement contains terms and conditions which provide the Seller with the protections of the warranties and limitations on liability contained in the Agreement. Subject to Buyer's compliance with the foregoing requirement, such warranty rights are expressly assignable by the Buyer to a subsequent owner of the membranes. Except as provided herein, Buyer is not entitled to extend or transfer this warranty to any other party.

7 Flight Booking

Prices quoted for installation which include airfare are either based on timely confirmation of a visit schedule or based on receipt of a purchase order in time to book any flights seven days in advance. Additional airfare charges related to late arrival of a purchase order will be extra and billed through to Ashland without mark-up.

8 Warranty on Programming

Veolia warrants that the PLC program will conform to the specifications in the relevant sections of the CLSC and OSC (revised for the project) and will be free from defects in workmanship when operated at all times in accordance with Veolia's written instructions. If any defects are found and reported by Ashland within a period not exceeding twelve (12) months beyond the completion of the site acceptance test, Veolia will make modifications to the PLC code as deemed necessary. Any changes requested by Ashland after this period will be at the customer's expense.

9 Purchase Order Guidelines

Please confirm that your purchase order has covered the following points. This will ensure accurate and prompt order entry, product delivery, invoicing and accounts receivables processing and will prevent administrative delays for all parties.

- **Documentation** – Our strong preference is to receive a hard or digital copy of your purchase order (PO) rather than a PO number alone. Your PO can be sent by email to nam.service.pocentral@veolia.com. If you are not able to provide a PO, please contact us for alternatives.
- **Veolia legal entity** – Please be sure your purchase order is issued in the name of the specific Veolia legal entity outlined in the quote. We will be glad to work with your purchasing department to set this entity up as an approved supplier/vendor. Please advise us if this Veolia entity is not set up in your purchasing system as a vendor and you do have another Veolia entity set up.
- **Quotation Number** – Please reference the quotation number in your PO.
- **Product** – Please note which product(s) you wish to purchase along with the quoted price, particularly if quantities or scope differ from the quotation.
- **Taxes** – Please provide any required tax exemption certificates. Please indicate if taxes have been added in your PO.
- **Payment Terms** – Please acknowledge the payment terms included with the quotation.
- **Bill-to Address** – Please include contact information for your accounts payable.
- **Ship-to Address** – Please clearly define the delivery location and the receiver's email & telephone. Please specify receiving hours and any special off-loading requirements.
- **Delivery Date** – Please include your requested delivery date.

B – General Terms and Conditions of Sale

Veolia's standard terms and conditions apply. See Attachment A.

Note to purchasing agent: The Veolia's standard set of commercial terms & conditions are written for moderate value transactions to allow an efficient and rapid provision of services and parts. Where corporate agreement terms have been previously agreed, these may be brought forward by either party and applied by mutual consent. If either of these terms sets are not immediately acceptable, please expect a typical 6-10 week cycle of mutual review to build agreement on changes.



12 Signed Agreement

Through the issue of this proposal, Veolia signals their intent to enter into an agreement with Ashland. Ashland and Veolia acknowledge that they have read and understood this agreement and agree to be bound by the terms and conditions specified in it.

Offered by ZENON Environmental
Legal Entity: Corporation, also known as
Veolia or Seller

Accepted by City of Ashland
Legal Entity: also known as Ashland or Buyer

**Authorized
Signature
by:** _____

Title: _____

**Signature
Date:** _____

Signature: x _____

Purchase Order No: _____

**If options were available,
which options selected** _____

Upon acceptance of this proposal, please forward the following either
• by email with .pdf attachments or • by postal mail or • by fax.

1) this signature page completed
to:

2) a hard copy of your purchase order, and
3) any required tax exemption certificates

nam.service.pocentral@veolia.com or
Veolia Water Technologies & Solutions
attention: Contracts Administrator
Please contact
nam.service.pocentral@veolia.com for
correct address
or
fax no.: 905 465 3050

This agreement comes into force when Veolia has issued a formal acceptance of Ashland's Purchase order or formal acceptance of this Ashland signed agreement.

doc. control: author: RM filename: Ashland Tertiary 531996-1 320 x ZW500Ds 350ft² Oct 20 2023
last modified: 10/19/2023 2:18 PM technical review: JD commercial review: DP/JD DOA: Blkt



Attachment A Veolia Standard Terms and Conditions

- 1. Exclusive Terms and Conditions.** Together with any other terms the Parties agree to in writing, these General Terms and Conditions – together with the last proposal in order of time issued by the Seller – form the exclusive terms (“Agreement”) whereby Buyer agrees to purchase, and Seller agrees to sell products and equipment (jointly “Equipment”) and to provide advice, instruction and other services in connection with the sale of that Equipment (“Services”). If Buyer sends to Seller other terms and conditions to which Seller may not respond, including but not limited to those contained in Buyer’s purchase order, such shall not apply. This Agreement may only be revised by a change order approved in writing by both Parties. All terms not defined herein shall be defined in Seller’s proposal.
- 2. Equipment and Services.** The Equipment to be delivered and the Services to be provided shall be as set out in this Agreement. Unloading, handling, storage, installation, and operation of Buyer’s systems or the Equipment are the responsibility of Buyer. Buyer shall not require or permit Seller’s personnel to operate Buyer’s systems or the Equipment at Buyer’s site.
- 3. Prices and Payment.** Buyer shall pay Seller for the Equipment and Services in accordance with the payment schedule (as set forth in Seller’s proposal or, if applicable, in any special conditions agreed to in writing by the Parties). Unless otherwise specified in writing, payment is due net thirty (30) days from the date of Seller’s invoice. Seller may require a Letter of Credit or other payment guarantee, in which case the stated amount of the guarantee will be adjusted by Buyer in the event of any currency-based adjustment to prices or payment amounts per the Payment Schedule, and Buyer shall deliver the adjusted guarantee within five (5) days of request by Seller. Buyer agrees to reimburse Seller for collection costs, including 2% (two per cent) interest per month (not to exceed the maximum amount permitted by applicable law), should Buyer fail to timely pay. Buyer shall have no rights to make any deduction, retention, withholding or setoff relating to any payments due under this Agreement.
- 4. Taxes and Duties** Seller shall be responsible for all corporate taxes measured by net income due to performance of or payment for work under this Agreement (“Seller Taxes”). Buyer shall be responsible for all taxes, duties, fees, or other charges of any nature (including, but not limited to, consumption, gross receipts, import, property, sales, stamp, turnover, use, or value-added taxes, and all items of withholding, deficiency, penalty, addition to tax, interest, or assessment related thereto, imposed by any governmental authority on Buyer or Seller or its subcontractors) in relation to the Agreement or the performance of or payment for work under the Agreement other than Seller Taxes (“Buyer Taxes”). The Agreement prices do not include the amount of any Buyer Taxes. If Buyer deducts or withholds Buyer Taxes, Buyer shall pay additional amounts so that Seller receives the full Agreement price without reduction for Buyer Taxes. Buyer shall provide to Seller, within one month of payment, official receipts from the applicable governmental authority for deducted or withheld taxes. Buyer shall furnish Seller with evidence of tax exemption acceptable to taxing authorities if applicable, prior to execution of the Agreement by both Parties or issuance by the Seller of the order acceptance. Buyer’s failure to provide evidence of exemption at time of order will relieve Seller of any obligation to refund taxes paid by Seller.
- 5. Delivery, Title, Risk of Loss.** Unless otherwise specified in this Agreement, Seller shall deliver all Equipment to Buyer FCA (Incoterms 2010) Seller’s facility. The time for delivery of the Equipment to Buyer shall be specified in this Agreement. Seller’s sole liability for any delay in delivery of the Equipment shall be as expressly set out in this Agreement. The place of delivery specified herein shall be firm and fixed, provided that Buyer may notify Seller no later than forty-five (45) days prior to the scheduled shipment date of the Equipment of an alternate point of delivery, Buyer shall compensate Seller for any additional cost in implementing the change. If any part of the Equipment cannot be delivered when ready due to any cause not attributable to Seller, Buyer shall designate a climate-controlled storage location, and Seller shall ship such Equipment to storage. Title and risk of loss shall thereupon pass to Buyer, and amounts payable to Seller upon delivery or shipment shall be paid by Buyer along with expenses incurred by Seller. Services provided herein shall be charged at the rate prevailing at the time of actual use and Buyer shall pay any increase, and Buyer shall pay directly all costs for storage and subsequent transportation. Failure by Buyer to take delivery of the Equipment shall be a material breach of this Agreement.

Title and risk of loss to the Equipment shall be transferred from Seller to Buyer at the point of delivery upon handover in accordance with this Agreement. Title and risk of loss to the Services shall pass as they are performed.



6. Warranties and Remedies. Seller warrants that Equipment shall be delivered free from defects in material, workmanship and title and that Services shall be performed in a competent, diligent manner in accordance with any mutually agreed specifications. Seller's warranty does not cover the results of improper handling, storage, installation, commissioning, operation or maintenance of the Equipment by Buyer or third parties, repairs or alterations made by Buyer without Seller's written consent, influent water which does not comply with agreed parameters, or fair wear and tear.

Unless otherwise expressly provided in this Agreement, the foregoing warranties are valid for:

- (a) chemicals and Services, for six (6) months from their date of delivery or the provision of Services;
- (b) consumables, including filters and spiral wound membranes (other than spiral wound membranes for process treatment), the earlier of twelve (12) months from date of first use of fifteen (15) months from their date of delivery;
- (c) spiral wound membranes for process fluid treatment, ninety (90) days from their date of first use;
- (d) ultrafiltration membranes (ZW500, ZW700B, ZW1000, ZW1500), twelve (12) months from their date of delivery;
- (e) Equipment other than chemicals and consumables, the earlier of, fifteen (15) months from delivery or shipment to storage, or twelve (12) months from start-up/first use;
- (f) software, ninety (90) days from the date of receipt;
- (g) Equipment not manufactured by Seller, the warranty shall be the manufacturer's transferable warranty only,

Any claim for breach of these warranties must be promptly notified in writing, and Buyer shall make the defective item available to the Seller, or the claim will be void. Seller's sole responsibility and Buyer's exclusive remedy arising out of or relating to the Equipment or Services or any breach of these warranties is limited to repair at Seller's facility or (at Seller's option) replace at Seller's facility the defective item of Equipment, and re-perform defective Services. In performance of its obligations hereunder, Seller will not control the actual operation of either Buyer's systems or the Equipment at the Buyer's site.

Warranty repair, replacement or re-performance by Seller shall not extend or renew the applicable warranty period.

The warranties and remedies are conditioned upon (a) proper unloading, handling, storage, installation, use, operation, and maintenance of the Equipment and Buyer's facility and all related system in accordance with Seller's instructions and, in the absence, generally accepted industry practice, (b) Buyer keeping accurate and complete records of operation and maintenance during the warranty period and providing Seller access to those records, and (c) modification or repair of Equipment or Services only as authorized by Seller in writing. Failure to meet any such conditions renders the warranty null and void.

The Buyer will be entitled to assign to a subsequent owner of the Equipment the warranties of the Seller under this Agreement, provided that a prior written notification is sent to the Seller and the assignment agreement contains terms and conditions which provide the Seller with the protections of the warranties and limitations on liability contained in the Agreement. Subject to Buyer's compliance with the foregoing requirement, such warranty rights are expressly assignable by the Buyer to a subsequent owner of the Equipment. Except as provided herein, Buyer is not entitled to extend or transfer this warranty to any other party. The warranties and remedies set forth in this article are in lieu of and exclude all other warranties and remedies, statutory, express or implied, including any warranty of merchantability or of fitness for a particular purpose.

Unless otherwise expressly stipulated in this Agreement, Seller gives no warranty or guarantee as to process results or performance of the Equipment, including but not limited to product quality, flow, production, capacity, membrane life, chemical consumption, regulatory compliance or energy consumption.

7. General Indemnity. Seller shall indemnify and hold harmless Buyer from claims for physical damage to third party property or injury to persons, including death, to the extent caused by the negligence of Seller or its officers, agents, employees, and/or assigns while engaged in activities under this Agreement. Buyer shall likewise indemnify and hold harmless Seller from claims for physical damage to third party property or injury to persons, including death, to the extent caused by the negligence of the Buyer, its officers, agents, employees, and/or assigns. In the event such damage or injury is caused by the joint or concurrent negligence of Seller and Buyer, the loss shall be borne by each Party in proportion to its negligence. For the purposes of this article (i) "Third party" shall not include Buyer or any subsequent owner of the Equipment, their subsidiaries, parents, affiliates, agents, successors or assigns including any operation or maintenance contractor, or their insurer; and (ii) no portion of the Equipment is "third party property".

8. Compliance with Laws and Permits. All permits, authorisations, and licenses which are required to construct, install and/or operate Buyer's facility or equipment, to use the Equipment, or to manage and dispose of any wastes, discharges, and



residues resulting from Buyer's use of the Equipment, shall be obtained and maintained by Buyer at Buyer's sole expense. Buyer is responsible for compliance with all laws and regulations applicable to the storage, use, handling, installation, maintenance, removal, registration, and labelling of all Equipment after delivery of the Equipment, as well as for the proper management and disposal of all wastes, discharges, and residues.

9. Buyer's Site Conditions. Buyer warrants that any data furnished to the Seller concerning conditions at Buyer's site (including but not limited to any existing Buyer facility, equipment or processes, influent water or other substances to be treated or measured with the Equipment) is accurate and complete, and the Seller reserves the right to utilize the most appropriate design compatible with generally accepted engineering practices, and to make changes in details of design, manufacture and arrangement of Equipment unless precluded by any limitations specified in this Agreement. Seller shall notify Buyer of (1) any conditions at Buyer's site which materially differ from those indicated in the data furnished by Buyer, (2) any previously unknown physical conditions at Buyer's site of an unusual nature, not revealed by previous investigations and differing from those ordinarily encountered in the type of work provided for in this Agreement, and (3) the presence of any Hazardous Materials (as defined below), the existence of a contaminated soil, unexploded ordinance, or archaeological remains. If such conditions cause an increase in Seller's cost or in the time required for the performance of Seller's obligations, Seller shall be entitled to an equitable adjustment in the Agreement price and an extension in the time for performance.

10. Hazardous Materials and Wastes. In the event that Seller encounters any Hazardous Materials (meaning toxic substances, hazardous substances, pollutants, contaminants, regulated wastes, or hazardous wastes as such terms may be defined or classified in any law, statute, directive, ordinance or regulations promulgated by any applicable governmental entity) at Buyer's site, other than Hazardous Materials introduced by Seller or that are otherwise the express responsibility of Seller under this Agreement, Buyer shall immediately take whatever precautions are required to legally eliminate such Hazardous Materials so that the Seller's work under this Agreement may safely proceed. At no time shall Seller be deemed to have taken title to or the responsibility for the management or disposal of any wastes, Hazardous Materials, influent water, any resultant product streams, wastewater streams, discharges, cleaning materials, or any other materials or substances processed by the Equipment or otherwise located at Buyer's site. Seller does not take responsibility for and hereby expressly disclaims responsibility for the characterization or disposal of wastes, Hazardous Materials, or for the identification, selection, or management of disposal facilities for any wastes.

11. Excusable Delays. Seller shall not be liable nor in breach or default of its obligations under this Agreement to the extent performance of such obligations is delayed or prevented, directly or indirectly, due to causes beyond the reasonable control of Seller, including, but not limited to: acts of God, natural disasters, unusually severe weather, fire, terrorism, war (declared or undeclared) epidemics, material shortages, insurrection, act (or omissions) of Buyer or Buyer's contractors/suppliers or agents, any act (or omission) by any governmental authority, strikes, labour disputes, transportation shortages, or vendor non-performance. The delivery or performance date shall be extended for a period equal to the time lost by reason of delay or non-performance, plus such additional time as may be necessary to overcome the effect of the delay or non-performance. If delivery or performance is delayed for a period exceeding 180 (one hundred and eighty) days, either Party may terminate this Agreement without further liability provided that Seller shall be paid an amount equal to that which would be payable to Seller under the article entitled "Termination". If Seller is delayed by any acts (or omissions) of Buyer, or by the prerequisite work of Buyer's other contractors or suppliers, Seller shall be entitled to an equitable adjustment in schedule, price and/or performance, as applicable.

12. Emergencies. If the safety of Seller's personnel is threatened or likely to be threatened by circumstances outside the reasonable control of Seller, including but not limited to war, armed conflict, civil unrest, riots, terrorism, kidnapping, presence of or exposure to hazardous materials, unsafe working conditions, or by the threat of such circumstances or a lack of adequate protections against such circumstances, Seller shall be entitled to take all necessary steps to ensure the security and safety of its personnel including the evacuation of personnel until such circumstances no longer apply. Any such occurrence shall be considered an excusable delay event. Buyer shall reasonably assist in the event of any such evacuation.

13. Confidentiality, Intellectual Property. Both Parties agree to keep confidential the other Party's proprietary non-public information, if any, which may be acquired in connection with this Agreement. Buyer will not, without Seller's advance written consent, subject Equipment to testing, analysis, or any type of reverse engineering. Seller retains all intellectual property rights including copyright which it has in all drawings and data or other deliverables (including the Equipment) supplied or developed under this Agreement. Buyer agrees that it will not file patent applications on the Equipment or any development or enhancement of the Equipment, or of processes and methods of using the Equipment, without Seller's express prior written permission. Buyer further agrees that in any event any such patents will not be asserted against Seller or its other buyers based upon purchase and use of such Equipment. Seller grants to Buyer a non-exclusive, non-terminable, royalty free license to use the intellectual property embedded in Equipment delivered to and paid for by the Buyer, as well as any drawings, design



or data delivered to and paid for by the Buyer, for the purposes of owning, financing, using, operating and maintaining the relevant Equipment at Buyer's site. Such license may only be assigned to a subsequent owner of the Equipment or to an operations and maintenance subcontractor. Such license does not extend to the re-creation of the Equipment or the manufacture of spares or consumables by Buyer or third parties.

Any software Seller owns and provides pursuant to this Agreement shall remain Seller's property. Seller provides to Buyer a limited, non-exclusive and terminable royalty free project-specific license to such software for the use, operation or maintenance at Buyer's site of any Equipment purchased hereunder to which the software is a necessary component. Buyer agrees not to copy, sub-license, translate, transfer, reverse engineer, or decode the software.

Seller shall indemnify and hold harmless Buyer from any rightful claim of any third party that any Equipment or Service infringe a patent in effect in the USA, an EU member state or country of delivery (provided there is a corresponding patent issued by the USA or an EU member state), or USA copyright or copyright registered in the country of delivery. If the Buyer notifies the Seller promptly of the receipt of any such claim, does not take any position adverse to the Seller regarding such claim and gives the Seller information, assistance and exclusive authority to settle and defend the claim, the Seller shall, at its own expense and choice, either (i) settle or defend the claim and pay all damages and costs awarded in it against the Buyer, or (ii) procure for the Buyer the right to continue using the Equipment or Service, or (iii) modify or replace the Equipment or Service so that it becomes non-infringing, or (iv) remove the infringing Equipment and refund the price. The above paragraph shall not apply to any misuse of Equipment or Equipment which is manufactured to the Buyer's design, or to alleged infringement arising from the combination, operation, or use of any Equipment or Services with other equipment or services when such combination is part of any allegedly infringing subject matter. The foregoing list of sub-sections (i), (ii), (iii), and (iv) and related terms state the entire liability of the Seller for intellectual property infringement by any Equipment or Service.

14. Limitations on Liability. Notwithstanding anything else contained in this Agreement, to the maximum extent permitted by law, and regardless of whether a claim is based in contract (including warranty or indemnity), extra-contractual liability, tort (including negligence or strict liability), statute, equity or any other legal theory:

- a. THE TOTAL LIABILITY OF THE SELLER AND OF ITS INSURER FOR ALL CLAIMS ARISING OUT OF OR RELATING TO THE PERFORMANCE OR BREACH OF THIS AGREEMENT OR USE OF ANY EQUIPMENT OR SERVICES SHALL NOT EXCEED THE TOTAL PRICE PAID BY BUYER UNDER THIS AGREEMENT OR (IN THE CASE OF AN AGREEMENT FOR SERVICES WITH A TERM OF MORE THAN ONE YEAR) THE ANNUAL PRICE PAYABLE BY BUYER UNDER THIS AGREEMENT;
- b. IN NO EVENT SHALL SELLER BE LIABLE FOR ANY LOSS OF PROFIT OR REVENUES, LOSS OF PRODUCTION, LOSS OF USE OF EQUIPMENT OR SERVICES OR ANY ASSOCIATED EQUIPMENT, INTERRUPTION OF BUSINESS, COST OF CAPITAL, COST OF REPLACEMENT WATER OR POWER, DOWNTIME COSTS, INCREASED OPERATING COSTS, CLAIMS OF BUYER'S CUSTOMERS FOR SUCH DAMAGES, OR FOR ANY SPECIAL, CONSEQUENTIAL, INCIDENTAL, INDIRECT, PUNITIVE OR EXEMPLARY DAMAGES;
- c. SELLER'S LIABILITY SHALL END UPON EXPIRATION OF THE APPLICABLE WARRANTY PERIOD, PROVIDED THAT BUYER MAY CONTINUE TO ENFORCE A CLAIM FOR WHICH IT HAS GIVEN NOTICE PRIOR TO THAT DATE BY COMMENCING AN ACTION OR ARBITRATION, AS APPLICABLE UNDER THIS AGREEMENT, BEFORE EXPIRATION OF ANY STATUTE OF LIMITATIONS OR OTHER LEGAL TIME LIMITATION BUT IN NO EVENT – TO THE EXTENT PERMITTED BY APPLICABLE LAW – LATER THAN FIVE (5) MONTHS AFTER EXPIRATION OF SUCH WARRANTY PERIOD.

For the purposes of this article, "Seller" shall mean Seller, its affiliates, subcontractors and suppliers of any tier, and their respective agents and employees, individually or collectively. If Buyer is supplying Seller's Equipment or Services to a third party, Buyer shall require the third party to agree to be bound by this article. If Buyer does not obtain this agreement for Seller's benefit for any reason, Buyer shall indemnify and hold Seller harmless from all liability arising out of claims made by the third party in excess of the limitations and exclusion of this article.

15. Termination. This Agreement and any performance pursuant to it may be terminated by either Party, and the consequences of such termination shall be as set out in the next paragraph, if the other Party

- a. becomes insolvent, makes an assignment for the benefit of its creditors, has a receiver or trustee appointed for the benefit of its creditors, or files for protection from creditors under any bankruptcy or insolvency laws; or



- b. fails to make any payment when due or to establish any payment security required by this Agreement, or commits a material breach or defaults in its material obligations under this Agreement, and such default is not cured within thirty (30) days of written notice from the other Party.

Upon the termination of this Agreement by Buyer for cause (i) Seller shall reimburse Buyer the difference between that portion of the Agreement price allocable to the terminated scope and the actual amounts reasonably incurred by Buyer to complete that scope, and (ii) Buyer shall pay to Seller (a) the portion of the Agreement price allocable to Equipment completed, and (b) amounts for Services performed before the effective date of termination. Upon the termination of this Agreement by Seller for cause Buyer shall pay to Seller within thirty (30) days of receipt of invoice the price of all Equipment or Services delivered at the date of termination, plus an amount equal to all costs and expenses incurred in the engineering, sourcing, financing, procurement, manufacture, storage and transportation of the Equipment including materials, work in progress and any cancellation charges assessed against Seller by Seller's suppliers including reasonable overhead and profit on all such costs and expenses. Alternatively, if any schedule of termination payments has been agreed between the Parties, Buyer shall pay to Seller within thirty (30) days of receipt of invoice the amounts set out in that schedule.

Seller shall have the right to suspend performance upon written notice to Buyer in any case where Seller would have the right to terminate the Agreement under this article, without prejudice to Seller's right to terminate this Agreement for cause. Any cost incurred by Seller in accordance with any such suspension (including storage costs) shall be payable by Buyer upon submission of the Seller's invoice(s). Performance of the Seller's obligations shall be extended for a period of time reasonably necessary to overcome the effects of such suspension.

16. Governing Law, Dispute Resolution. This Agreement shall be governed by the substantive laws of the State of Oregon. In the event of a dispute concerning this Agreement, the complaining Party shall notify the other Party in writing thereof. Management level representatives of both Parties shall meet at an agreed location to attempt to resolve the dispute in good faith. Should the dispute not be resolved within thirty (30) days after such notice, the complaining Party shall seek remedies exclusively through arbitration. The seat of arbitration shall be the federal district court in Philadelphia, PA, and the rules of the arbitration will be the Commercial Arbitration Rules of the American Arbitration Association, which are incorporated by reference into this article.

Notwithstanding the foregoing, each Party shall have the right to commence an action or proceeding in a court of competent jurisdiction, subject to the terms of this Agreement, in order to seek and obtain a restraining order or injunction to enforce the confidentiality intellectual property provisions set forth in the first two paragraphs of article 13; nuclear use restrictions set forth in article 17, or to seek interim or conservatory measures not involving monetary damages.

17. No Nuclear Use. Equipment and Services sold by Seller are not intended for use in connection with any nuclear facility or activity, the Buyer warrants that it shall not use or permit others to use the Equipment or Services for such purposes, without the advance written consent of Seller. If, in breach of this, any such use occurs, Seller (and its parent, affiliates, suppliers and subcontractors) disclaims all liability for any nuclear or other damage, injury or contamination, and, in addition to any other rights of Seller, Buyer shall indemnify and hold Seller (and its parent, affiliates, suppliers and subcontractors) harmless against all such liability.

18. Export Control. Seller's obligations are conditioned upon Buyer's compliance with all applicable trade control laws and regulations including those of the United States, European Union, and France. Additionally, Buyer shall not sell, distribute, disclose, release or otherwise transfer any item or technical data provided under this Agreement to: (i) any country designated as a "State Sponsor of Terrorism" by the U.S. Department of State including, for this Agreement, the countries of North Korea (ii) any entity located in, or owned by an entity located in, a "State Sponsor of Terrorism" country, North Korea, (iii) the region of Crimea or (iv) any person or entity listed on the "Entity List" or "Denied Persons List", the list of "Specifically Designated Nationals and Blocked Persons" maintained by any other applicable prohibited party list. The Buyer hereby certifies that the work, technical data, software or other information or assistance furnished by the Seller or its Affiliates under this contract will not be used in the design, development, production, stockpiling or use of chemical, biological or nuclear weapons either by the Buyer or by any entity acting on the Buyer's behalf. The obligations of the parties to comply with all applicable trade control laws and regulations shall survive any termination or discharge of any other contract obligations.

19. Changes. Each Party may at any time propose changes in the schedule or scope of Equipment or Services. All changes to the Equipment or Services shall be subject to mutual agreement via a written change order or variation, which shall only become effective once signed by both Parties. The scope, Agreement price, schedule, and other provisions will be equitably adjusted to reflect additional costs or obligations incurred by Seller resulting from a change, after Seller's proposal date, in Buyer's site-specific requirements or procedures, or in industry specifications, codes, standards, applicable laws or



regulations. It shall be acceptable and not considered a change if Seller delivers Equipment (including Equipment replacement under warranty) that bears a different, superseding or new part or version number compared to the part or version number listed in the Agreement, provided that in no circumstance shall this affect any other of Seller's obligations including those set forth in article 6.

20. Conflicts; Survival, Assignment. If there is any conflict between this Agreement and any written proposal or quotation provided by Seller, then the terms and conditions set forth in this Agreement shall prevail. If any term or condition of this Agreement or any accompanying terms and conditions are held invalid or illegal, then such terms and conditions shall be reformed to be made legal or valid, or deleted, but the remaining terms and conditions shall remain in full force and effect, and this Agreement shall be interpreted and implemented in a manner which best fulfils Parties' intended agreement. Those provisions which by their nature remain applicable after termination shall survive the termination of this Agreement for any reason. Seller may assign or novate its rights and obligations under the Agreement, in whole or in part, to any of its affiliates or may assign any of its accounts receivable under this Agreement to any party without Buyer's consent, and the Buyer hereby agrees, by signing this Agreement, to such assignment and to execute any document that may be necessary to complete Seller's assignment or novation. This Agreement shall not otherwise be assigned by either Party without the other Party's prior written consent, and any assignment without such consent shall be void.

Seller may (i) manufacture and source the Equipment and any part thereof globally in the country or countries of its choosing; and (ii) subcontract portions of the Services, so long as Seller remains responsible for such.

21. No third-party beneficiary. Except as specifically set forth in the article entitled "Limitations on Liability" and "No Nuclear Use", this Agreement is not intended to, and does not, give to any person who is not a party to this Agreement any rights to enforce any provisions contained in this Agreement.

22. Entire Agreement. This Agreement embodies the entire agreement between Buyer and Seller and supersedes any previous documents, correspondence or agreements between them. No modification, amendment, revision, waiver, or other change shall be binding on either Party unless agreed in writing by the Party's authorized representative. Any oral or written representation, warranty, course of dealing, or trade usage not specified herein shall not be binding on either Party. Each Party agrees that it has not relied on, or been induced by, any representations of the other Party not contained in this Agreement.



Attachment B ZENON Environmental Corporation W9

Form **W-9** Request for Taxpayer Identification Number and Certification

(Rev. October 2018)
Department of the Treasury
Internal Revenue Service

► Go to www.irs.gov/FormW9 for instructions and the latest information.

Give Form to the requester. Do not send to the IRS.

1 Name (as shown on your income tax return). Name is required on this line; do not leave this line blank.
Zenon Environmental Corporation

2 Business name/disregarded entity name, if different from above

3 Check appropriate box for federal tax classification of the person whose name is entered on line 1. Check only one of the following seven boxes.

Individual/sole proprietor or single-member LLC

C Corporation S Corporation Partnership Trust/estate

Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=Partnership) ► _____

Other (see instructions) ► _____

4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3):

Exempt payee code (if any) 5

Exemption from FATCA reporting code (if any) _____

5 Address (number, street, and apt. or suite no.) See instructions.
3600 Horizon Blvd.

6 City, state, and ZIP code
Trevoose, PA 19053

7 List account number(s) here (optional)

Requester's name and address (optional)

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the instructions for Part I, later. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN*, later.

Social security number

OR

Employer identification number

3	8		2	5	4	9	3	2	6
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Note: If the account is in more than one name, see the instructions for line 1. Also see *What Name and Number To Give the Requester* for guidelines on whose number to enter.

Part II Certification

Under penalties of perjury, I certify that:

- The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
- I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
- I am a U.S. citizen or other U.S. person (defined below); and
- The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions for Part II, later.

Sign Here Signature of U.S. person ► *Ralph J. D...* Date ► **01/19/2023**

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. For the latest information about developments related to Form W-9 and its instructions, such as legislation enacted after they were published, go to www.irs.gov/FormW9.

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following.

- Form 1099-INT (interest earned or paid)
- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-S (proceeds from real estate transactions)
- Form 1099-K (merchant card and third party network transactions)
- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
- Form 1099-C (canceled debt)
- Form 1099-A (acquisition or abandonment of secured property)

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See *What is backup withholding, later*.



ZENON ENVIRONMENTAL CORPORATION

ADDENDUM TO FORM W-9

Zenon Environmental Corporation owns or leases various properties in its business activities in addition to the Trevoise, PA property listed as the official Tax mailing address on lines 5 and 6 of Form W-9.

Specifically, Zenon Environmental Corporation operates from the following address:

3239 Dundas Street West
Oakville, Ontario, L6M 4B2 Canada

This address should be used for your billing records.