:	
1	CITY OF HOMER
.2	HOMER, ALASKA
3	City Manager
4	Public Works Director
5	ORDINANCE 25-18
6	AN ORDINANCE OF THE OWN CONTROL OF THE OWN
7	AN ORDINANCE OF THE CITY COUNCIL OF HOMER, ALASKA
8	AMENDING THE FY25 CAPITAL BUDGET BY APPROPRIATING AN
9	ADDITIONAL \$17,000 FROM THE WATER CAPITAL ASSET REPAIR
10	AND MAINTENANCE ALLOWANCE (CARMA) FUND TO PURCHASE
11	ONE MEMBRANE FILTER MODULE FOR THE WATER TREATMENT
12	PLANT.
13	
14	WHEREAS, The City's water is treated with a sophisticated system of long, small-
15	diameter hollow threads, which, when connected together in a frame, comprise a "membrane
16	filter", referred to as a "train"; and
17	MILLEDEAS The Michael Treatment Dieut (MTD) huilt in 2007 has a second
18	WHEREAS, The Water Treatment Plant (WTP), built in 2007, has room for six membrane
19 20	filter trains, which have a predicted life span of 10-15 years; and
21	WHEREAS, The WTP currently has five filter trains operating and one filter train space
22	as reserved for future expansion; and
23	as reserved for future expansion, and
24	WHEREAS, It is time to procure replacements for the five that are currently operating
25	and past their expected useful life; and
26	
27	WHEREAS, The FY25 Capital Budget includes \$80,000 to procure one membrane filter
28	train; and
29	
30	WHEREAS, The first filter train was purchase for approximately \$95,000 under
31	Ordinance 23-57 and installed in FY24; and
32	
33	WHEREAS, The anticipated cost including a modest contingency for the second filter
34	train after coordination with the vendor is expected to be approximately \$97,000, which
35	exceeds the available budget by \$17,000; and
36	
37	WHEREAS, Funds are available in the Water CARMA fund to support the cost increase.
38	
39	NOW, THEREFORE, THE CITY OF HOMER ORDAINS:
40	
41	Section 1. The Homer City Council hereby amends the FY25 Capital Budget by
42	appropriating an additional \$17,000 as follows:
43	
44	

Page 2 of 2 ORDINANCE 25-18 CITY OF HOMER

45	<u>Fund</u>	<u>Description</u>		<u>Amount</u>
46	256-0378	8 WTP Membran	ie Train	\$17,000
47				
48			nent ordinance, is ter	nporary in nature, and shall
49	not be codified.			
50				
51	ENACTE	D BY THE CITY COUNCIL OF I	HOMER, ALASKA this	10 <sup>th</sup> day of March, 2025.
52			CITY OF HOM	<b>5</b> /
53	•			( )
54				
55			111/	
56		•	RACHEL LORI	D, MAYOR
57	<b>ATTECT.</b>			
58 59	ATTEST:			
60	Λ.			
61	KOLEO	Krause		
62	RENEE KRAUSE	, MMC, CITY CLERK		
63	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Times, of the obligation	K. Why	
64	YES: 5		CEARING CONTRACTOR	
65	NO: Ø		The same of the sa	
66	ABSTAIN: Ø	•	100	ch 31, 1964
67	ABSENT: /			
68		. ( )		arts
69	Introduction: o	2/24/25		
70	Public Hearing:	3/10/25		
71	Second Reading	3/10/25		
72	Effective Date:	3/11/25		
73				



Ordinance 25-18, An Ordinance of the City Council of Homer, Alaska, Amending the FY25
Capital Budget by Appropriating an Additional \$17,000 from the Water Capital Asset Repair and
Maintenance Allowance (CARMA) Fund to Purchase One Membrane Filter Module for the Water
Treatment Plant. City Manager/Public Works Director.

**Item Type:** Backup Memorandum

**Prepared For:** City Council

**Date:** February 12, 2025

**From:** Daniel Kort, Public Works Director

**Through:** Melissa Jacobsen, City Manager

**I. Issue:** The purpose of this Memorandum is to request an additional appropriation of \$17,000 from the Water CARMA for the purpose of paying increased costs of providing membrane replacement modules for the Water Treatment Plant (WTP).

## II. Background:

Homer's drinking water treatment technology involves the use of modules of very small diameter membranes, which are hung on racks, similar to a drying rack of angel hair pasta. Water passes through the membranes, which filter out sediment, organics and other particles. The WTP contains space for six of these racks, called "membrane trains" of which five are currently in use. The sixth rack location is vacant and is for future expansion to accommodate larger flows as water demand in Homer increases over time.

The original membrane trains were installed in 2009, with an expected life span of 10-14 years. Therefore, the current filter trains are at the end of their useful life. In 2023 a plan was developed for replacing these filter trains over several years in order to space out their expiration. The FY24/25 Capital Budget included \$80,000 to purchase one membrane train each fiscal year. The first membrane train was purchased and installed in FY24 for \$95,000 after a supplemental appropriation. This current additional appropriation request of \$17,000 is in addition to the already appropriated \$80,000 to cover the extra cost for the purchase of the second membrane train.

As stated in Ordinance 23-57, we will be asking for additional appropriations in future years to address future purchases. Once completed, we will have replaced all five of the original membrane trains.

The City's water treatment plant operators have the skills, abilities and tools to install the new membrane trains and have completed the installation of the first membrane filter train.

**III. RECOMMENDATION:** That the City Council appropriate an additional \$17,000 from the Water CARMA fund to pay for the acquisition of membrane filter trains for the Water Treatment Plant.

1 2		CITY OF HOMER HOMER, ALASKA				
3			City Mana	ger/		
4			Public Works Dire	_		
5		ORDINANCE 23-57				
6						
7		CE OF THE CITY COUNCIL OF				
8		HE FY24 CAPITAL BUDGET BY A				
9		\$35,000 FROM THE WATER CAPI				
10		NANCE ALLOWANCE (CARMA) FU				
11		ANE FILTER MODULE FOR THE V	VATER TREATMENT			
12	PLANT.					
13 14	WHEREAS Ordinance	22 22/A 2) adopted the FV24/2F	Capital Budget which suther	:d		
14 15		e 23-23(A-3) adopted the FY24/25 one membrane filter train; and	Capital Budget, which authori	izea		
16	380,000 III 124 to procure o	ne membrane mier tram, and				
17	WHEREAS An addition	onal funding of \$35,000 is necessa	ary to complete the EV24 purch	1250		
18		and financial factors and the cost				
19	arter riegotiating teermieat a	The inferior factors and the cost	or the consultant support, an	ıu		
20	WHEREAS, The City's	s water is treated with a soph	nisticated system of long, sm	nall-		
21	diameter hollow threads, which, when connected together in a frame, comprise a "membrane					
22	filter", referred to as a "train					
23						
24	WHEREAS, The Water	Treatment Plant (WTP), built in	2 <mark>007, has room for five memb</mark> r	ane		
25	filter trains, which have a pre	edicted life span of 10-15 years;	a <mark>nd</mark>			
26						
27		currently has five filter trains ope	rating that are currently opera	ting		
28	and past their expected usef	ful life; and				
29						
30		Capital Budget includes \$80,000				
31	filter train, and the intent is	to budget for the purchase of on	e each in FY26, FY27 and FY28.			
32 33	NOW THEREFORE TO	HE CITY OF HOMER ORDAINS:				
34	NOW, THEREFORE, T	HE CITT OF HOMER ORDAINS.				
35	Section 1 The Hou	mer City Council hereby amer	nds the EV24 Capital Budget	t by		
36		\$35,000 to fund the increased				
37	filter module for the Water T		sarchase price of one membr	unc		
38	The state of the state of					
39	<u>Fund</u>	Description	Amount			
40	256-0378	WTP Membrane Train	\$35,000			
41						
42						

77

Effective Date: November 28, 2023

45	Section 2. The tota	al appropriation is \$115,000 as follows:	
46			
47	<u>Fund</u>	Description	Amount
48	256-0378	WTP Membrane Train - Existing Appropriation	\$80,000
49	256-0378	WTP Membrane Train – Additional Funding	\$35,000
50			
51	Section 3. The City	Manager is authorized to execute the appropriate of	documents.
52			
53		a budget amendment ordinance, is temporary in nat	ture, and shall
54	not be codified.		
55			
56	ENACTED BY THE C	CITY COUNCIL OF HOMER, ALASKA this 27 <sup>th</sup> day of No	vember, 2023.
57		CITY OF HOMER	
58		1/	
59			
60		( Jul AS my	
61		KEN CASTNER, MAYOR	
62			
63	ÁTTEST:		
64			
65	10.0-1.00		
66	- Willin Jacol		
67	MELISSA JACOBSEN, MMC	, CITY CLERK	
68			
69	YES: 6	CE MUNICIPALITY OF THE PROPERTY OF THE PROPERT	
70	NO: 0	and the second s	
71	ABSTAIN: 0	mark of the state	
72	ABSENT: 0	161Ch 31 1964	
73			
74	Introduction: November 1	3, 2023	
75	Public Hearing: November	27, 2023	
76	Second Reading: Novemb	er 27, 2023	



Ordinance 23-57, An Ordinance of the City Council of Homer, Alaska Amending the FY24 Capital Budget by Appropriating an Additional \$35,000 from the Water Capital Asset Repair and Maintenance Allowance Fund to Purchase One Membrane Filter Module for the Water Treatment Plant. City Manager/Public Works Director.

**Item Type:** 

Backup Memorandum

**Prepared For:** 

City Council

Date:

October 31, 2023

From:

Janette Keiser, PE, Public Works Director/City Engineer

Through:

Rob Dumouchel, City Manager

Issue: The purpose of this Memorandum is to request an additional appropriation of \$30,061 from the Water CARMA for the purpose of paying increased costs of providing membrane replacement modules for the Water Treatment Plant (WTP).

## II. Background:

Homer's drinking water treatment technology involves the use of modules of very small diameter membranes, which are hung on racks, similar to a drying rack of angel hair pasta. Water passes through the membranes, which trap sediment, organics and other particles. The WTP contains space for six of these racks, called "membrane trains" of which five are currently in use. The sixth rack allows Homer to accommodate larger flows as water demand increases over time. The original membrane trains were installed in 2009, with an expected life span of 10-14 years. Thus, we are at the end of their useful life, so we have developed a plan for replacing them over the next few years. The FY24 Capital Budget includes \$80,000 to purchase one membrane train and the FY25 Capital Budget includes \$80,000 to purchase a second membrane train. We now know the cost of the first membrane train, including a modest contingency, is \$95,000. We need an additional appropriation of \$30,061 to cover the extra cost of the first membrane train.

We will be asking for additional appropriations in future years to address future purchases. We are contemplating purchase of five membrane trains in total to replace each of the original membrane trains.

Memorandum City Council October 31, 2023

We are also requesting an additional \$15,061 to cover the costs of the HDR Task Order. We needed help to review the specifications of the membrane trains, as some of the characteristics of the technology has changed in the past 14 years. Plus, we need to ensure brand new membranes won't adversely affect our current flow conditions at the WTP. So, we commissioned HDR, the original WTP designers to help us negotiate design parameters and features for the new membrane trains as well as to negotiate price indices. HDR's Task Order 23-04 for this work was authorized by Resolution 23-006 and cost \$15,061. The work has been done. We now have a final proposal from the manufacturer, Zenon Environmental Corporation (Zenon), for the new membrane trains.

The Zenon's proposal covers membrane replacement over a period of five years, anticipating purchase of one membrane train each year. This locks in the base price for all five membrane trains. Prices will be adjusted for inflation.

The total value for the purchase of five membrane trains is \$463,870. The Annual Payment is \$92,774 for the first year. Payments for subsequent years will be subject to inflationary adjustments, in accordance with the US CPI-U, All Urban Consumers. In addition to the membrane trains themselves, this price includes fiber repair kits and other parts required to connect the new membranes to the existing frameworks. In the event future City Councils do not appropriate funds for future payments, we have the option to terminate the purchase agreement. Once terminated, there is no option to restart the agreement; we will need to start from scratch.

The City's water treatment plant operators have the skills, abilities and tools to install the new membrane trains once we receive them. We may ask HDR to help commission the new membrane trains to ensure smooth transition between old and new flow parameters. We will assess the need, and request funding, for this possibility when we get the first train.

Homer City Code allows exceptions to be made to bidding requirements in the cases where a sole source procurements is justified, HCC 3.16.060(i). A sole source procurement is justified in this case because Zenon (1) provided the original membrane trains and (2) is the only manufacturer of these specialized membranes in the country.

Zenon's cost proposal is deem fair and reasonable, because it is based on the price guarantee formula that was part of the original purchase in 2009, adjusted for inflation, shipping and other incidental costs we've been able to identify and negotiate, such as costs for the repair kits, etc. The membranes themselves are manufactured in Hungary and subject to U.S. Custom duties, which are subject to change. Because of this, we recommend a small contingency be provided to account for small cost adjustments.

Delivery is projected to be 52 weeks after receipt of a purchase order.

We are asking for a total increase in appropriation of \$35,000, which includes \$15,000 for the additional costs for the membrane trains and \$15,061 for the cost of the HDR Task Order and a contingency amout:

•	HDR Task Order	\$	15,061
•	Membrane train	\$	95,000
•	Contingency	\$	4,939
	Total needed	\$:	115,000
•	Currently authorized	\$	80,000
	Additional \$ needed	\$	35,000

**III. RECOMMENDATION:** That the City Council appropriate an additional \$35,000 from the Water CARMAS fund to pay for the acquisition of membrane filter trains for the Water Treatment Plant, including (a) purchase of one membrane filter train and (b) consultant services related to the transaction.

## CITY OF HOMER FINANCIAL SUPPLEMENT

PROJECT NAME	Additional Funding - WTP Membrane Filter	DATE <u>11/08/2023</u>	
DEPARTMENT	Public Works	SPONSOR PW Director	
REQUESTED AMOUNT	\$ 35,000	or oneon	
DESCRIPTION	An additional funding of \$25,000 is present the second black to \$250.000 is present to to \$250.		
	An additional funding of \$35,000 is necessary to complete the FY24 the cost of the consultant support.	4 purchase after negotiating technical and financial factors and	
	The City's water is treated with a sophisticated system of long, sm. frame, comprise a "membrane filter", referred to as a "train". The membrane filter trains, which have a predicted life span of 10-15 y currently operating and past their expected useful life.	rall-diameter hollow threads, which, when connected together in a water Treatment Plant (WTP), built in 2007, has room for five rears. The WTP currently has five filter trains operating that are	

FUNDING SOURCE(S)	OPERATING	GF CARMA	GF FLEET CARMA	PORT RESERVES	WATER CARMA
	0%	0%	0%	0%	100%
	HAWSP	HART-ROADS	HART-TRAILS	PORT FLEET RESERVES	SEWER CARMA
	0%	0%	0%	0%	0%

FUNDING SOURCE 1: WATER CAR	MA (256-0378)	FUNDING SOURCE 2:	FUNDING SOURCE 3:	
Current Balance	\$ 2,119,591	Current Balance	Current Balance	
Encumbered	\$821,770	Encumbered	Encumbered	
Requested Amount	\$ 35,000	Requested Amount	Requested Amount	
Other Items on Current Agenda	\$ 0	Other Items on Current Agenda	Other Items on Current Agenda	
Remaining Balance \$1,262,821		Remaining Balance	Remaining Balance	
FUNDING SOURCE 4:		FUNDING SOURCE 5:	FUNDING SOURCE 6:	
Current Balance	_	Current Balance	Current Balance	
Encumbered		Encumbered	Encumbered	
Requested Amount		Requested Amount	Requested Amount	
Remaining Balance		Remaining Balance	Remaining Balance	

## CITY OF HOMER FINANCIAL SUPPLEMENT

PROJECT NAME	Additional Fundin	g - Membrane Filter for W	ater Treatment Plant	DATE 02/19/2025			
DEPARTMENT	Public Works	Public Works		SPONSOR City Manager/PW Director			
REQUESTED AMOUNT	\$ 17,000						
The City's water is treated with a sophisticated system of long, small-diameter hollow threads, which, when connected together in a frame, comprise a "membrane filter", referred to as a "train". The Water Treatment Plant (WTP), built in 2007, has room for six membrane filter trains, which have a predicted life span of 10-15 years. The WTP currently has five filter trains operating and one filter train space as reserved for future expansion. It is time to procure replacements for the five that are currently operating and past their expected useful life. The FY25 Capital Budget includes \$80,000 to procure one membrane filter train. The first filter train was purchase for approximately \$95,000 under Ordinance 23-57 and installed in FY24. The anticipated cost including a modest contingency for the second filter train after coordination with the vendor is expected to be approximately \$97,000, which exceeds the available budget by \$17,000.							
FUNDING SOURCE(S)	OPERATING	GF CARMA	GF FLEET CARMA	PORT RESERVES	WATER CARMA		
	0%	0%	0%	0%	100%		
	HAWSP	HART-ROADS	HART-TRAILS	PORT FLEET RESERVES	SEWER CARMA		
	0%	0%	0%	0%	0%		
FUNDING SOURCE 1: WATE	FUNDING SOURCE 1: WATER CARMA (256-0378) FUNDING SOURCE 2: FUNDING SOURCE 3:						
Current Balance \$2,222,705		Current Balance		Current Balance	Current Balance		
Encumbered \$ 1,156,706		Encumbered		Encumbered			
Requested Amount \$ 17,000		Requested Amount		Requested Amount			
Other Items on Current Agenda \$300,000		Other Items on Current Agenda		Other Items on Current Ag	Other Items on Current Agenda		

Remaining Balance

FUNDING SOURCE 6:

Requested Amount

Remaining Balance

**Current Balance** 

Encumbered

Remaining Balance

FUNDING SOURCE 4:

Requested Amount

Remaining Balance

**Current Balance** 

Encumbered

\$ 748,999

Remaining Balance

FUNDING SOURCE 5:

Requested Amount

Remaining Balance

**Current Balance** 

Encumbered