

Form 5500 Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Annual Return/Report of Employee Benefit Plan This form is required to be filed for employee benefit plans under sections 104 and 4065 of the Employee Retirement Income Security Act of 1974 (ERISA) and sections 6057(b) and 6058(a) of the Internal Revenue Code (the Code). ▶ Complete all entries in accordance with the instructions to the Form 5500.	OMB Nos. 1210-0110 1210-0089 2022 This Form is Open to Public Inspection
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Part I	Annual Report Identification Information
For calendar plan year 2022 or fiscal plan year beginning <u>01/01/2022</u> and ending <u>12/31/2022</u>	
A This return/report is for:	☐ a multiemployer plan ☐ a multiple-employer plan (Filers checking this box must attach a list of participating employer information in accordance with the form instructions.) ☒ a single-employer plan ☐ a DFE (specify) ____
B This return/report is:	☐ the first return/report ☐ the final return/report ☐ an amended return/report ☐ a short plan year return/report (less than 12 months)
C If the plan is a collectively-bargained plan, check here.	☐
D Check box if filing under:	☐ Form 5558 ☐ automatic extension ☐ the DFVC program ☐ special extension (enter description)
E If this is a retroactively adopted plan permitted by SECURE Act section 201, check here.	☐

Part II	Basic Plan Information —enter all requested information		
1a Name of plan	<u>ECOVYST 401(K) SAVINGS PLAN</u>	1b Three-digit plan number (PN) ▶	<u>003</u>
		1c Effective date of plan	<u>02/01/1982</u>
2a Plan sponsor's name (employer, if for a single-employer plan)	2b Employer Identification Number (EIN)		
Mailing address (include room, apt., suite no. and street, or P.O. Box)	<u>86-2551862</u>		
City or town, state or province, country, and ZIP or foreign postal code (if foreign, see instructions)	2c Plan Sponsor's telephone number		
<u>ECOVYST CATALYST TECHNOLOGIES, LLC</u>	<u>484-617-1202</u>		
<u>P. O. BOX 834</u>	2d Business code (see instructions)		
<u>VALLEY FORGE, PA 19482-0840</u>	<u>325200</u>		

Caution: A penalty for the late or incomplete filing of this return/report will be assessed unless reasonable cause is established.

Under penalties of perjury and other penalties set forth in the instructions, I declare that I have examined this return/report, including accompanying schedules, statements and attachments, as well as the electronic version of this return/report, and to the best of my knowledge and belief, it is true, correct, and complete.

SIGN HERE	Filed with authorized/valid electronic signature.	07/24/2023	SUSAN F. OLAFSON
	Signature of plan administrator	Date	Enter name of individual signing as plan administrator
SIGN HERE			
	Signature of employer/plan sponsor	Date	Enter name of individual signing as employer or plan sponsor
SIGN HERE			
	Signature of DFE	Date	Enter name of individual signing as DFE

For Paperwork Reduction Act Notice, see the Instructions for Form 5500.

Form 5500 (2022)
v. 220413

3a Plan administrator's name and address ☒ Same as Plan Sponsor		3b Administrator's EIN																				
		3c Administrator's telephone number																				
4 If the name and/or EIN of the plan sponsor or the plan name has changed since the last return/report filed for this plan, enter the plan sponsor's name, EIN, the plan name and the plan number from the last return/report: a Sponsor's name c Plan Name		4b EIN 4d PN																				
5 Total number of participants at the beginning of the plan year		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; text-align: center;">5</td> <td style="text-align: right;">1551</td> </tr> </table>	5	1551																		
5	1551																					
6 Number of participants as of the end of the plan year unless otherwise stated (welfare plans complete only lines 6a(1) , 6a(2) , 6b , 6c , and 6d).		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="background-color: #f2f2f2; height: 20px;"></td> </tr> <tr> <td style="width: 10%; text-align: center;">6a(1)</td> <td style="text-align: right;">1098</td> </tr> <tr> <td style="text-align: center;">6a(2)</td> <td style="text-align: right;">782</td> </tr> <tr> <td style="text-align: center;">6b</td> <td style="text-align: right;">42</td> </tr> <tr> <td style="text-align: center;">6c</td> <td style="text-align: right;">444</td> </tr> <tr> <td style="text-align: center;">6d</td> <td style="text-align: right;">1268</td> </tr> <tr> <td style="text-align: center;">6e</td> <td style="text-align: right;">14</td> </tr> <tr> <td style="text-align: center;">6f</td> <td style="text-align: right;">1282</td> </tr> <tr> <td style="text-align: center;">6g</td> <td style="text-align: right;">1259</td> </tr> <tr> <td style="text-align: center;">6h</td> <td style="text-align: right;">20</td> </tr> </table>			6a(1)	1098	6a(2)	782	6b	42	6c	444	6d	1268	6e	14	6f	1282	6g	1259	6h	20
6a(1)	1098																					
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6c	444																					
6d	1268																					
6e	14																					
6f	1282																					
6g	1259																					
6h	20																					
a(1) Total number of active participants at the beginning of the plan year																						
a(2) Total number of active participants at the end of the plan year																						
b Retired or separated participants receiving benefits																						
c Other retired or separated participants entitled to future benefits.....																						
d Subtotal. Add lines 6a(2) , 6b , and 6c																						
e Deceased participants whose beneficiaries are receiving or are entitled to receive benefits.																						
f Total. Add lines 6d and 6e																						
g Number of participants with account balances as of the end of the plan year (only defined contribution plans complete this item).....																						
h Number of participants who terminated employment during the plan year with accrued benefits that were less than 100% vested.....																						
7 Enter the total number of employers obligated to contribute to the plan (only multiemployer plans complete this item)		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; text-align: center;">7</td> <td></td> </tr> </table>	7																			
7																						
8a If the plan provides pension benefits, enter the applicable pension feature codes from the List of Plan Characteristics Codes in the instructions: 2E 2F 2G 2J 2K 2T 3F 3H																						
b If the plan provides welfare benefits, enter the applicable welfare feature codes from the List of Plan Characteristics Codes in the instructions:																						
9a Plan funding arrangement (check all that apply) (1) ☐ Insurance (2) ☐ Code section 412(e)(3) insurance contracts (3) ☒ Trust (4) ☐ General assets of the sponsor	9b Plan benefit arrangement (check all that apply) (1) ☐ Insurance (2) ☐ Code section 412(e)(3) insurance contracts (3) ☒ Trust (4) ☐ General assets of the sponsor																					
10 Check all applicable boxes in 10a and 10b to indicate which schedules are attached, and, where indicated, enter the number attached. (See instructions)																						
a Pension Schedules (1) ☒ R (Retirement Plan Information) (2) ☐ MB (Multiemployer Defined Benefit Plan and Certain Money Purchase Plan Actuarial Information) - signed by the plan actuary (3) ☐ SB (Single-Employer Defined Benefit Plan Actuarial Information) - signed by the plan actuary	b General Schedules (1) ☒ H (Financial Information) (2) ☐ I (Financial Information – Small Plan) (3) ☐ A (Insurance Information) (4) ☒ C (Service Provider Information) (5) ☐ D (DFE/Participating Plan Information) (6) ☐ G (Financial Transaction Schedules)																					

Part III Form M-1 Compliance Information (to be completed by welfare benefit plans)

11a If the plan provides welfare benefits, was the plan subject to the Form M-1 filing requirements during the plan year? (See instructions and 29 CFR 2520.101-2.) ☐ Yes ☐ No

If "Yes" is checked, complete lines 11b and 11c.

11b Is the plan currently in compliance with the Form M-1 filing requirements? (See instructions and 29 CFR 2520.101-2.) ☐ Yes ☐ No

11c Enter the Receipt Confirmation Code for the 2022 Form M-1 annual report. If the plan was not required to file the 2022 Form M-1 annual report, enter the Receipt Confirmation Code for the most recent Form M-1 that was required to be filed under the Form M-1 filing requirements. (Failure to enter a valid Receipt Confirmation Code will subject the Form 5500 filing to rejection as incomplete.)

Receipt Confirmation Code _____

SCHEDULE C (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Service Provider Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA). ▶ File as an attachment to Form 5500.	OMB No. 1210-0110
		2022
		This Form is Open to Public Inspection.

For calendar plan year 2022 or fiscal plan year beginning 01/01/2022 and ending 12/31/2022		
A Name of plan ECOVYST 401(K) SAVINGS PLAN	B Three-digit plan number (PN) ▶	003
C Plan sponsor's name as shown on line 2a of Form 5500 ECOVYST CATALYST TECHNOLOGIES, LLC	D Employer Identification Number (EIN) 86-2551862	

Part I	Service Provider Information (see instructions)
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You must complete this Part, in accordance with the instructions, to report the information required for **each person** who received, directly or indirectly, \$5,000 or more in total compensation (i.e., money or anything else of monetary value) in connection with services rendered to the plan or the person's position with the plan during the plan year. If a person received **only** eligible indirect compensation for which the plan received the required disclosures, you are required to answer line 1 but are not required to include that person when completing the remainder of this Part.

1 Information on Persons Receiving Only Eligible Indirect Compensation

- a Check "Yes" or "No" to indicate whether you are excluding a person from the remainder of this Part because they received only eligible indirect compensation for which the plan received the required disclosures (see instructions for definitions and conditions)..... ☒ Yes ☐ No
- b If you answered line 1a "Yes," enter the name and EIN or address of each person providing the required disclosures for the service providers who received only eligible indirect compensation. Complete as many entries as needed (see instructions).

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation
THE VANGUARD GROUP, INC.
23-1945930

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation
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2. Information on Other Service Providers Receiving Direct or Indirect Compensation. Except for those persons for whom you answered "Yes" to line 1a above, complete as many entries as needed to list each person receiving, directly or indirectly, \$5,000 or more in total compensation (i.e., money or anything else of value) in connection with services rendered to the plan or their position with the plan during the plan year. (See instructions).

(a) Enter name and EIN or address (see instructions)

VANGUARD ADVISERS INC.

23-2811930

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
26	NONE	69489	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

(a) Enter name and EIN or address (see instructions)

THE VANGUARD GROUP, INC.

23-1945930

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
15 25 37 52 99	NONE	27835	Yes ☒ No ☐	Yes ☒ No ☐	0	Yes ☒ No ☐

(a) Enter name and EIN or address (see instructions)

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
			Yes ☐ No ☐	Yes ☐ No ☐		Yes ☐ No ☐

Part I Service Provider Information (continued)

3. If you reported on line 2 receipt of indirect compensation, other than eligible indirect compensation, by a service provider, and the service provider is a fiduciary or provides contract administrator, consulting, custodial, investment advisory, investment management, broker, or recordkeeping services, answer the following questions for (a) each source from whom the service provider received \$1,000 or more in indirect compensation and (b) each source for whom the service provider gave you a formula used to determine the indirect compensation instead of an amount or estimated amount of the indirect compensation. Complete as many entries as needed to report the required information for each source.

(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation
THE VANGUARD GROUP, INC.	99	0

(d) Enter name and EIN (address) of source of indirect compensation	(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.
FIDELITY INVESTMENTS 04-2033129	25 BPS

(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation

(d) Enter name and EIN (address) of source of indirect compensation	(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.

(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation

(d) Enter name and EIN (address) of source of indirect compensation	(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.

Part II Service Providers Who Fail or Refuse to Provide Information

4 Provide, to the extent possible, the following information for each service provider who failed or refused to provide the information necessary to complete this Schedule.

(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide

Part III Termination Information on Accountants and Enrolled Actuaries (see instructions)
(complete as many entries as needed)

a Name:	BOYLE CPA, LLC	b EIN:	81-2651633
c Position:	ACCOUNTANT/AUDITOR		
d Address:	361 HOPEDALE DRIVE SE BAYVILLE, NJ 08721	e Telephone:	

Explanation: PLAN SPONSOR DECIDED TO ENGAGE THE SERVICES OF ANOTHER ACCOUNTING FIRM FOR PLAN AUDIT PURPOSES.

a Name:		b EIN:	
c Position:			
d Address:		e Telephone:	

Explanation:

a Name:		b EIN:	
c Position:			
d Address:		e Telephone:	

Explanation:

a Name:		b EIN:	
c Position:			
d Address:		e Telephone:	

Explanation:

a Name:		b EIN:	
c Position:			
d Address:		e Telephone:	

Explanation:

SCHEDULE H (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Financial Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA), and section 6058(a) of the Internal Revenue Code (the Code). ► File as an attachment to Form 5500.	OMB No. 1210-0110 2022 This Form is Open to Public Inspection
	For calendar plan year 2022 or fiscal plan year beginning <u>01/01/2022</u> and ending <u>12/31/2022</u>	
	A Name of plan <u>ECOVYST 401(K) SAVINGS PLAN</u>	B Three-digit plan number (PN) <u>003</u>
C Plan sponsor's name as shown on line 2a of Form 5500 <u>ECOVYST CATALYST TECHNOLOGIES, LLC</u>	D Employer Identification Number (EIN) <u>86-2551862</u>	

Part I Asset and Liability Statement			
1 Current value of plan assets and liabilities at the beginning and end of the plan year. Combine the value of plan assets held in more than one trust. Report the value of the plan's interest in a commingled fund containing the assets of more than one plan on a line-by-line basis unless the value is reportable on lines 1c(9) through 1c(14). Do not enter the value of that portion of an insurance contract which guarantees, during this plan year, to pay a specific dollar benefit at a future date. Round off amounts to the nearest dollar. MTIAs, CCTs, PSAs, and 103-12 IEs do not complete lines 1b(1), 1b(2), 1c(8), 1g, 1h, and 1i. CCTs, PSAs, and 103-12 IEs also do not complete lines 1d and 1e. See instructions.			
Assets		(a) Beginning of Year	(b) End of Year
a Total noninterest-bearing cash.....	1a		
b Receivables (less allowance for doubtful accounts):			
(1) Employer contributions.....	1b(1)	<u>5671207</u>	<u>4509579</u>
(2) Participant contributions.....	1b(2)	<u>106774</u>	
(3) Other.....	1b(3)		
c General investments:			
(1) Interest-bearing cash (include money market accounts & certificates of deposit).....	1c(1)		
(2) U.S. Government securities.....	1c(2)		
(3) Corporate debt instruments (other than employer securities):			
(A) Preferred.....	1c(3)(A)		
(B) All other.....	1c(3)(B)		
(4) Corporate stocks (other than employer securities):			
(A) Preferred.....	1c(4)(A)		
(B) Common.....	1c(4)(B)		
(5) Partnership/joint venture interests.....	1c(5)		
(6) Real estate (other than employer real property).....	1c(6)		
(7) Loans (other than to participants).....	1c(7)		
(8) Participant loans.....	1c(8)	<u>3512451</u>	<u>2495471</u>
(9) Value of interest in common/collective trusts.....	1c(9)		
(10) Value of interest in pooled separate accounts.....	1c(10)		
(11) Value of interest in master trust investment accounts.....	1c(11)		
(12) Value of interest in 103-12 investment entities.....	1c(12)		
(13) Value of interest in registered investment companies (e.g., mutual funds).....	1c(13)	<u>325583364</u>	<u>202332422</u>
(14) Value of funds held in insurance company general account (unallocated contracts).....	1c(14)		
(15) Other.....	1c(15)		

1d Employer-related investments:		(a) Beginning of Year	(b) End of Year
(1) Employer securities	1d(1)	431662	264789
(2) Employer real property	1d(2)		
e Buildings and other property used in plan operation	1e		
f Total assets (add all amounts in lines 1a through 1e)	1f	335305458	209602261

Liabilities

g Benefit claims payable	1g		
h Operating payables	1h		
i Acquisition indebtedness	1i		
j Other liabilities	1j		
k Total liabilities (add all amounts in lines 1g through 1j)	1k	0	0

Net Assets

l Net assets (subtract line 1k from line 1f)	1l	335305458	209602261
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Part II Income and Expense Statement

2 Plan income, expenses, and changes in net assets for the year. Include all income and expenses of the plan, including any trust(s) or separately maintained fund(s) and any payments/receipts to/from insurance carriers. Round off amounts to the nearest dollar. MTIAs, CCTs, PSAs, and 103-12 IEs do not complete lines 2a, 2b(1)(E), 2e, 2f, and 2g.

Income

		(a) Amount	(b) Total
a Contributions:			
(1) Received or receivable in cash from: (A) Employers	2a(1)(A)	4925935	
(B) Participants	2a(1)(B)	6979235	
(C) Others (including rollovers)	2a(1)(C)	196360	
(2) Noncash contributions	2a(2)		
(3) Total contributions. Add lines 2a(1)(A) , (B) , (C) , and line 2a(2)	2a(3)		12101530
b Earnings on investments:			
(1) Interest:			
(A) Interest-bearing cash (including money market accounts and certificates of deposit)	2b(1)(A)		
(B) U.S. Government securities	2b(1)(B)		
(C) Corporate debt instruments	2b(1)(C)		
(D) Loans (other than to participants)	2b(1)(D)		
(E) Participant loans	2b(1)(E)	118222	
(F) Other	2b(1)(F)		
(G) Total interest. Add lines 2b(1)(A) through (F)	2b(1)(G)		118222
(2) Dividends: (A) Preferred stock	2b(2)(A)		
(B) Common stock	2b(2)(B)		
(C) Registered investment company shares (e.g. mutual funds)	2b(2)(C)	8290699	
(D) Total dividends. Add lines 2b(2)(A) , (B) , and (C)	2b(2)(D)		8290699
(3) Rents	2b(3)		
(4) Net gain (loss) on sale of assets: (A) Aggregate proceeds	2b(4)(A)		
(B) Aggregate carrying amount (see instructions)	2b(4)(B)		
(C) Subtract line 2b(4)(B) from line 2b(4)(A) and enter result	2b(4)(C)		0
(5) Unrealized appreciation (depreciation) of assets: (A) Real estate	2b(5)(A)		
(B) Other	2b(5)(B)		
(C) Total unrealized appreciation of assets. Add lines 2b(5)(A) and (B)	2b(5)(C)		0

		(a) Amount	(b) Total
(6) Net investment gain (loss) from common/collective trusts	2b(6)		
(7) Net investment gain (loss) from pooled separate accounts	2b(7)		
(8) Net investment gain (loss) from master trust investment accounts	2b(8)		
(9) Net investment gain (loss) from 103-12 investment entities.....	2b(9)		
(10) Net investment gain (loss) from registered investment companies (e.g., mutual funds)	2b(10)		-48598050
c Other income	2c		
d Total income. Add all income amounts in column (b) and enter total	2d		-28087599
Expenses			
e Benefit payment and payments to provide benefits:			
(1) Directly to participants or beneficiaries, including direct rollovers	2e(1)	18820109	
(2) To insurance carriers for the provision of benefits	2e(2)		
(3) Other	2e(3)		
(4) Total benefit payments. Add lines 2e(1) through (3)	2e(4)		18820109
f Corrective distributions (see instructions)	2f		
g Certain deemed distributions of participant loans (see instructions)	2g		
h Interest expense	2h		
i Administrative expenses: (1) Professional fees	2i(1)		
(2) Contract administrator fees	2i(2)		
(3) Investment advisory and management fees	2i(3)		
(4) Other	2i(4)	219649	
(5) Total administrative expenses. Add lines 2i(1) through (4)	2i(5)		219649
j Total expenses. Add all expense amounts in column (b) and enter total	2j		19039758
Net Income and Reconciliation			
k Net income (loss). Subtract line 2j from line 2d	2k		-47127357
l Transfers of assets:			
(1) To this plan	2l(1)		
(2) From this plan	2l(2)		78575840

Part III Accountant's Opinion

3 Complete lines 3a through 3c if the opinion of an independent qualified public accountant is attached to this Form 5500. Complete line 3d if an opinion is not attached.

a The attached opinion of an independent qualified public accountant for this plan is (see instructions):

(1) ☒ Unmodified (2) ☐ Qualified (3) ☐ Disclaimer (4) ☐ Adverse

b Check the appropriate box(es) to indicate whether the IQPA performed an ERISA section 103(a)(3)(C) audit. Check both boxes (1) and (2) if the audit was performed pursuant to both 29 CFR 2520.103-8 and 29 CFR 2520.103-12(d). Check box (3) if pursuant to neither.

(1) ☐ DOL Regulation 2520.103-8 (2) ☐ DOL Regulation 2520.103-12(d) (3) ☒ neither DOL Regulation 2520.103-8 nor DOL Regulation 2520.103-12(d).

c Enter the name and EIN of the accountant (or accounting firm) below:

(1) Name: **URISH POPECK & CO., LLC**

(2) EIN: **25-1306171**

d The opinion of an independent qualified public accountant is **not attached** because:

(1) ☐ This form is filed for a CCT, PSA, or MTIA. (2) ☐ It will be attached to the next Form 5500 pursuant to 29 CFR 2520.104-50.

Part IV Compliance Questions

4 CCTs and PSAs do not complete Part IV. MTIAs, 103-12 IEs, and GIAs do not complete lines 4a, 4e, 4f, 4g, 4h, 4k, 4m, 4n, or 5. 103-12 IEs also do not complete lines 4j and 4l. MTIAs also do not complete line 4l.

During the plan year:

a Was there a failure to transmit to the plan any participant contributions within the time period described in 29 CFR 2510.3-102? Continue to answer "Yes" for any prior year failures until fully corrected. (See instructions and DOL's Voluntary Fiduciary Correction Program.)

	Yes	No	Amount
4a		X	

	Yes	No	Amount
b Were any loans by the plan or fixed income obligations due the plan in default as of the close of the plan year or classified during the year as uncollectible? Disregard participant loans secured by participant's account balance. (Attach Schedule G (Form 5500) Part I if "Yes" is checked.)			
4b		X	
c Were any leases to which the plan was a party in default or classified during the year as uncollectible? (Attach Schedule G (Form 5500) Part II if "Yes" is checked.)			
4c		X	
d Were there any nonexempt transactions with any party-in-interest? (Do not include transactions reported on line 4a. Attach Schedule G (Form 5500) Part III if "Yes" is checked.)			
4d		X	
e Was this plan covered by a fidelity bond?	X		5000000
f Did the plan have a loss, whether or not reimbursed by the plan's fidelity bond, that was caused by fraud or dishonesty?		X	
4f		X	
g Did the plan hold any assets whose current value was neither readily determinable on an established market nor set by an independent third party appraiser?			
4g		X	
h Did the plan receive any noncash contributions whose value was neither readily determinable on an established market nor set by an independent third party appraiser?			
4h		X	
i Did the plan have assets held for investment? (Attach schedule(s) of assets if "Yes" is checked, and see instructions for format requirements.)	X		
4i	X		
j Were any plan transactions or series of transactions in excess of 5% of the current value of plan assets? (Attach schedule of transactions if "Yes" is checked and see instructions for format requirements.)			
4j		X	
k Were all the plan assets either distributed to participants or beneficiaries, transferred to another plan, or brought under the control of the PBGC?			
4k		X	
l Has the plan failed to provide any benefit when due under the plan?			
4l		X	
m If this is an individual account plan, was there a blackout period? (See instructions and 29 CFR 2520.101-3.)			
4m		X	
n If 4m was answered "Yes," check the "Yes" box if you either provided the required notice or one of the exceptions to providing the notice applied under 29 CFR 2520.101-3.			
4n			

5a Has a resolution to terminate the plan been adopted during the plan year or any prior plan year? ☐ Yes ☒ No
If "Yes," enter the amount of any plan assets that reverted to the employer this year _____.

5b If, during this plan year, any assets or liabilities were transferred from this plan to another plan(s), identify the plan(s) to which assets or liabilities were transferred. (See instructions.)

5b(1) Name of plan(s)	5b(2) EIN(s)	5b(3) PN(s)
PQ PERFORMANCE CHEMICAL SAVINGS PLAN	23-0972750	001

5c Was the plan a defined benefit plan covered under the PBGC insurance program at any time during this plan year? (See ERISA section 4021 and instructions.) ☐ Yes ☒ No ☐ Not determined
If "Yes" is checked, enter the My PAA confirmation number from the PBGC premium filing for this plan year _____.

SCHEDULE R (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Retirement Plan Information This schedule is required to be filed under sections 104 and 4065 of the Employee Retirement Income Security Act of 1974 (ERISA) and section 6058(a) of the Internal Revenue Code (the Code). ► File as an attachment to Form 5500.	OMB No. 1210-0110 2022 This Form is Open to Public Inspection.
For calendar plan year 2022 or fiscal plan year beginning 01/01/2022 and ending 12/31/2022		
A Name of plan ECOVYST 401(K) SAVINGS PLAN		B Three-digit plan number (PN) ► 003
C Plan sponsor's name as shown on line 2a of Form 5500 ECOVYST CATALYST TECHNOLOGIES, LLC		D Employer Identification Number (EIN) 86-2551862
Part I	Distributions	
All references to distributions relate only to payments of benefits during the plan year.		
1 Total value of distributions paid in property other than in cash or the forms of property specified in the instructions.....		1
2 Enter the EIN(s) of payor(s) who paid benefits on behalf of the plan to participants or beneficiaries during the year (if more than two, enter EINs of the two payors who paid the greatest dollar amounts of benefits): EIN(s): 23-2186884		
Profit-sharing plans, ESOPs, and stock bonus plans, skip line 3.		
3 Number of participants (living or deceased) whose benefits were distributed in a single sum, during the plan year.....		3
Part II	Funding Information (If the plan is not subject to the minimum funding requirements of section 412 of the Internal Revenue Code or ERISA section 302, skip this Part.)	
4 Is the plan administrator making an election under Code section 412(d)(2) or ERISA section 302(d)(2)? ☐ Yes ☐ No ☐ N/A If the plan is a defined benefit plan, go to line 8.		
5 If a waiver of the minimum funding standard for a prior year is being amortized in this plan year, see instructions and enter the date of the ruling letter granting the waiver. Date: Month _____ Day _____ Year _____ If you completed line 5, complete lines 3, 9, and 10 of Schedule MB and do not complete the remainder of this schedule.		
6 a Enter the minimum required contribution for this plan year (include any prior year accumulated funding deficiency not waived).....		6a
b Enter the amount contributed by the employer to the plan for this plan year.....		6b
c Subtract the amount in line 6b from the amount in line 6a. Enter the result (enter a minus sign to the left of a negative amount).....		6c
If you completed line 6c, skip lines 8 and 9.		
7 Will the minimum funding amount reported on line 6c be met by the funding deadline? ☐ Yes ☐ No ☐ N/A		
8 If a change in actuarial cost method was made for this plan year pursuant to a revenue procedure or other authority providing automatic approval for the change or a class ruling letter, does the plan sponsor or plan administrator agree with the change? ☐ Yes ☐ No ☐ N/A		
Part III	Amendments	
9 If this is a defined benefit pension plan, were any amendments adopted during this plan year that increased or decreased the value of benefits? If yes, check the appropriate box. If no, check the "No" box..... ☐ Increase ☐ Decrease ☐ Both ☐ No		
Part IV	ESOPs (see instructions). If this is not a plan described under section 409(a) or 4975(e)(7) of the Internal Revenue Code, skip this Part.	
10 Were unallocated employer securities or proceeds from the sale of unallocated securities used to repay any exempt loan?..... ☐ Yes ☐ No		
11 a Does the ESOP hold any preferred stock?..... ☐ Yes ☐ No		
b If the ESOP has an outstanding exempt loan with the employer as lender, is such loan part of a "back-to-back" loan? (See instructions for definition of "back-to-back" loan.)..... ☐ Yes ☐ No		
12 Does the ESOP hold any stock that is not readily tradable on an established securities market?..... ☐ Yes ☐ No		
For Paperwork Reduction Act Notice, see the Instructions for Form 5500.		
Schedule R (Form 5500) 2022 v. 220413		

Part V Additional Information for Multiemployer Defined Benefit Pension Plans

13 Enter the following information for each employer that (1) contributed more than 5% of total contributions to the plan during the plan year or (2) was one of the top-ten highest contributors (measured in dollars). See instructions. *Complete as many entries as needed to report all applicable employers.*

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

14	Enter the number of deferred vested and retired participants (inactive participants), as of the beginning of the plan year, whose contributing employer is no longer making contributions to the plan for:		
	a The current plan year. Check the box to indicate the counting method used to determine the number of inactive participants: ☐ last contributing employer ☐ alternative ☐ reasonable approximation (see instructions for required attachment).....	14a	
	b The plan year immediately preceding the current plan year. ☐ Check the box if the number reported is a change from what was previously reported (see instructions for required attachment)	14b	
	c The second preceding plan year. ☐ Check the box if the number reported is a change from what was previously reported (see instructions for required attachment)	14c	
15	Enter the ratio of the number of participants under the plan on whose behalf no employer had an obligation to make an employer contribution during the current plan year to:		
	a The corresponding number for the plan year immediately preceding the current plan year.....	15a	
	b The corresponding number for the second preceding plan year.....	15b	
16	Information with respect to any employers who withdrew from the plan during the preceding plan year:		
	a Enter the number of employers who withdrew during the preceding plan year	16a	
	b If line 16a is greater than 0, enter the aggregate amount of withdrawal liability assessed or estimated to be assessed against such withdrawn employers.....	16b	
17	If assets and liabilities from another plan have been transferred to or merged with this plan during the plan year, check box and see instructions regarding supplemental information to be included as an attachment ☐		

Part VI	Additional Information for Single-Employer and Multiemployer Defined Benefit Pension Plans
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18	If any liabilities to participants or their beneficiaries under the plan as of the end of the plan year consist (in whole or in part) of liabilities to such participants and beneficiaries under two or more pension plans as of immediately before such plan year, check box and see instructions regarding supplemental information to be included as an attachment ☐
19	If the total number of participants is 1,000 or more, complete lines (a) through (c) a Enter the percentage of plan assets held as: Stock: _____% Investment-Grade Debt: _____% High-Yield Debt: _____% Real Estate: _____% Other: _____% b Provide the average duration of the combined investment-grade and high-yield debt: ☐ 0-3 years ☐ 3-6 years ☐ 6-9 years ☐ 9-12 years ☐ 12-15 years ☐ 15-18 years ☐ 18-21 years ☐ 21 years or more c What duration measure was used to calculate line 19(b)? ☐ Effective duration ☐ Macaulay duration ☐ Modified duration ☐ Other (specify): _____
20	PBGC missed contribution reporting requirements. If this is a multiemployer plan or a single-employer plan that is not covered by PBGC, skip line 20. a Is the amount of unpaid minimum required contributions for all years from Schedule SB (Form 5500) line 40 greater than zero? ☐ Yes ☐ No b If line 20a is "Yes," has PBGC been notified as required by ERISA sections 4043(c)(5) and/or 303(k)(4)? Check the applicable box: ☐ Yes. ☐ No. Reporting was waived under 29 CFR 4043.25(c)(2) because contributions equal to or exceeding the unpaid minimum required contribution were made by the 30th day after the due date. ☐ No. The 30-day period referenced in 29 CFR 4043.25(c)(2) has not yet ended, and the sponsor intends to make a contribution equal to or exceeding the unpaid minimum required contribution by the 30th day after the due date. ☐ No. Other. Provide explanation _____



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Independent Auditor's Report

To the Participants and Benefit Plans Committee of
the Ecovyst 401(k) Savings Plan
Malvern, Pennsylvania

Opinion

We have audited the financial statements of the Ecovyst 401(k) Savings Plan (the "Plan"), an employee benefit plan subject to the Employee Retirement Income Security Act of 1974 ("ERISA"). The financial statements comprise the statements of net assets available for benefits as of December 31, 2022 and 2021, and the related statements of changes in net assets available for benefits for the years then ended, and the related notes to the financial statements.

In our opinion, the accompanying financial statements present fairly, in all material respects, the net assets available for the benefits of the Plan as of December 31, 2022 and 2021, and the changes in its net assets available for benefits for the years then ended, in accordance with accounting principles generally accepted in the United States of America ("GAAP").

Basis for Opinion

We conducted our audits in accordance with auditing standards generally accepted in the United States of America ("GAAS"). Our responsibilities under those standards are further described in the *Auditor's Responsibilities for the Audit of the Financial Statements* section of our report. We are required to be independent of the Plan and to meet our other ethical responsibilities, in accordance with the relevant ethical requirements relating to our audits. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Responsibilities of Management for the Financial Statements

Management is responsible for the preparation and fair presentation of financial statements in accordance with GAAP, and for the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is required to evaluate whether there are conditions or events, considered in the aggregate, that raise substantial doubt about the Plan's ability to continue as a going concern within one year after the date that the financial statements are issued or available to be issued.

Management is responsible for maintaining a current plan instrument, including all plan amendments. Management is also responsible for administering the Plan and determining that the Plan's transactions that are presented and disclosed in the financial statements are in conformity with the Plan's provisions, including maintaining sufficient records with respect to each of the participants, to determine the benefits due or which may become due to such participants.

Auditors' Responsibilities for the Audits of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance but is not absolute assurance and therefore is not a guarantee that an audit conducted in accordance with GAAS will always detect a material misstatement when it exists. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control. Misstatements are considered material if, there is a substantial likelihood that, individually or in the aggregate, they would influence the judgment made by a reasonable user based on the financial statements.

In performing an audit in accordance with GAAS, we:

- Exercise professional judgment and maintain professional skepticism throughout the audit.
- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, and design and perform audit procedures responsive to those risks. Such procedures include examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements.

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- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Plan's internal control. Accordingly, no such opinion is expressed.
- Evaluate the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluate the overall presentation of the financial statements.
- Conclude whether, in our judgment, there are conditions or events, considered in the aggregate, that raise substantial doubt about the Plan's ability to continue as a going concern for a reasonable period of time.

We are required to communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit, significant audit findings, and certain internal control-related matters that we identified during the audit.

Supplementary Schedules Required by ERISA

Our audit was conducted for the purpose of forming an opinion on the financial statements as a whole. The supplemental schedules, Schedule H, Line 4i - Schedule of Assets (Held at End of Year) as of December 31, 2022 and Schedule H, Line 4a - Schedule of Delinquent Participant Contributions for the year ended December 31, 2021, are presented for purposes of additional analysis and are not a required part of the financial statements but are supplementary information required by the Department of Labor's Rules and Regulations for Reporting and Disclosure under ERISA. Such information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the financial statements. The information has been subjected to the auditing procedures applied in the audits of the financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the financial statements or to the financial statements themselves, and other additional procedures in accordance with GAAS.

In forming our opinion on the supplemental schedules, we evaluated whether the supplemental schedules, including their form and content, are presented in conformity with the Department of Labor's Rules and Regulations for Reporting and Disclosure under ERISA.

In our opinion, the information in the accompanying supplemental schedules are fairly stated, in all material respects, in relation to the financial statements as a whole, and the form and content are presented in conformity with the Department of Labor's Rules and Regulations for Reporting and Disclosure under ERISA.



Urish Popeck & Co., LLC

State College, Pennsylvania

June 27, 2023

Ecovyst 401(k) Savings Plan (Amended and Restated Effective January 1, 2016)

As of and for the Years Ended December 31, 2022 and 2021

Ecovyst Inc.
300 Lindenwood Drive
Malvern, Pennsylvania 19355

ECOVYST 401(K) SAVINGS PLAN

As of and for the Years Ended December 31, 2022 and 2021

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Independent Auditor's Report

To the Participants and Benefit Plans Committee of
the Ecovyst 401(k) Savings Plan
Malvern, Pennsylvania

Opinion

We have audited the financial statements of the Ecovyst 401(k) Savings Plan (the "Plan"), an employee benefit plan subject to the Employee Retirement Income Security Act of 1974 ("ERISA"). The financial statements comprise the statements of net assets available for benefits as of December 31, 2022 and 2021, and the related statements of changes in net assets available for benefits for the years then ended, and the related notes to the financial statements.

In our opinion, the accompanying financial statements present fairly, in all material respects, the net assets available for the benefits of the Plan as of December 31, 2022 and 2021, and the changes in its net assets available for benefits for the years then ended, in accordance with accounting principles generally accepted in the United States of America ("GAAP").

Basis for Opinion

We conducted our audits in accordance with auditing standards generally accepted in the United States of America ("GAAS"). Our responsibilities under those standards are further described in the *Auditor's Responsibilities for the Audit of the Financial Statements* section of our report. We are required to be independent of the Plan and to meet our other ethical responsibilities, in accordance with the relevant ethical requirements relating to our audits. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Responsibilities of Management for the Financial Statements

Management is responsible for the preparation and fair presentation of financial statements in accordance with GAAP, and for the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is required to evaluate whether there are conditions or events, considered in the aggregate, that raise substantial doubt about the Plan's ability to continue as a going concern within one year after the date that the financial statements are issued or available to be issued.

Management is responsible for maintaining a current plan instrument, including all plan amendments. Management is also responsible for administering the Plan and determining that the Plan's transactions that are presented and disclosed in the financial statements are in conformity with the Plan's provisions, including maintaining sufficient records with respect to each of the participants, to determine the benefits due or which may become due to such participants.

Auditors' Responsibilities for the Audits of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance but is not absolute assurance and therefore is not a guarantee that an audit conducted in accordance with GAAS will always detect a material misstatement when it exists. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control. Misstatements are considered material if, there is a substantial likelihood that, individually or in the aggregate, they would influence the judgment made by a reasonable user based on the financial statements.

In performing an audit in accordance with GAAS, we:

- Exercise professional judgment and maintain professional skepticism throughout the audit.
- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, and design and perform audit procedures responsive to those risks. Such procedures include examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements.

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- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Plan's internal control. Accordingly, no such opinion is expressed.
- Evaluate the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluate the overall presentation of the financial statements.
- Conclude whether, in our judgment, there are conditions or events, considered in the aggregate, that raise substantial doubt about the Plan's ability to continue as a going concern for a reasonable period of time.

We are required to communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit, significant audit findings, and certain internal control-related matters that we identified during the audit.

Supplementary Schedules Required by ERISA

Our audit was conducted for the purpose of forming an opinion on the financial statements as a whole. The supplemental schedules, Schedule H, Line 4i - Schedule of Assets (Held at End of Year) as of December 31, 2022 and Schedule H, Line 4a - Schedule of Delinquent Participant Contributions for the year ended December 31, 2021, are presented for purposes of additional analysis and are not a required part of the financial statements but are supplementary information required by the Department of Labor's Rules and Regulations for Reporting and Disclosure under ERISA. Such information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the financial statements. The information has been subjected to the auditing procedures applied in the audits of the financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the financial statements or to the financial statements themselves, and other additional procedures in accordance with GAAS.

In forming our opinion on the supplemental schedules, we evaluated whether the supplemental schedules, including their form and content, are presented in conformity with the Department of Labor's Rules and Regulations for Reporting and Disclosure under ERISA.

In our opinion, the information in the accompanying supplemental schedules are fairly stated, in all material respects, in relation to the financial statements as a whole, and the form and content are presented in conformity with the Department of Labor's Rules and Regulations for Reporting and Disclosure under ERISA.



Urish Popeck & Co., LLC

State College, Pennsylvania

June 27, 2023

FINANCIAL STATEMENTS

**ECOVYST 401(K) SAVINGS PLAN
STATEMENTS OF NET ASSETS AVAILABLE FOR BENEFITS**

	December 31,	
	2022	2021
Assets		
Investments, at fair value	\$ 202,597,211	\$ 326,015,026
Receivables:		
Participant contributions	—	106,774
Employer contributions	4,509,579	5,671,207
Participant notes receivable	2,495,471	3,512,451
Total receivables	<u>7,005,050</u>	<u>9,290,432</u>
Net assets available for benefits	<u><u>\$ 209,602,261</u></u>	<u><u>\$ 335,305,458</u></u>

The accompanying notes are an integral part of these financial statements.

ECOVYST 401(K) SAVINGS PLAN
STATEMENTS OF CHANGES IN NET ASSETS AVAILABLE FOR BENEFITS

	Years ended December 31,	
	2022	2021
Additions		
Investment income:		
Dividends	\$ 8,290,699	\$ 28,394,796
Contributions:		
Employer	4,925,935	6,665,000
Participants	6,979,235	9,345,329
Rollovers	196,360	1,172,528
Total contributions	12,101,530	17,182,857
Interest income on participant notes receivable	118,222	192,532
Total additions	20,510,451	45,770,185
Deductions		
Benefits paid to participants	18,820,109	33,019,008
Administrative expenses	219,649	191,771
Total deductions	19,039,758	33,210,779
Net (depreciation) appreciation in fair value of investments	(48,598,050)	13,855,600
Net (decrease) increase in net assets available for benefits	(47,127,357)	26,415,006
Transfers in	—	148,176
Transfers out	(78,575,840)	(62,845,245)
Net assets available for benefits, beginning of year	335,305,458	371,587,521
Net assets available for benefits, end of year	<u>\$ 209,602,261</u>	<u>\$ 335,305,458</u>

The accompanying notes are an integral part of these financial statements.

ECOVYST 401(K) SAVINGS PLAN NOTES TO THE FINANCIAL STATEMENTS

1. Description of Plan:

The following description of the Ecovyst 401(k) Savings Plan (the “Plan”) provides only general information. Participants should refer to the plan document or summary plan description for a more complete description of the Plan’s provisions.

General

The Plan is a defined contribution plan covering substantially all U.S. employees of Ecovyst Catalyst Technologies, LLC (the “Company”) and its participating affiliates. The Plan provides for a cash-deferred option and is qualified under Section 401(k) of the Internal Revenue Code (“IRC”). It is subject to the provisions of the Employee Retirement Income Security Act of 1974 (“ERISA”). The Plan is interpreted, administered and operated by an administrative committee (the “Benefit Plans Committee”) comprised entirely of executives of the Company.

The plan document provides for a Company investment program as a component of the Plan, which allows for the establishment of a parent company stock account through which participants may elect to invest in common shares of Ecovyst Inc., the parent of the Company (the “Parent Company”). A participant’s investment in the Ecovyst Stock Fund (the “Parent Company’s common stock”) is limited to 15% of the participant’s total account value.

Plan Amendments, Changes and Transfers

Performance Materials divestiture

On December 14, 2020, the Parent Company completed the sale of its Performance Materials business to Potters Buyer, LLC, an affiliate of The Jordan Company, L.P. Following the transaction, the Plan was amended to become a multiple employer plan in accordance with IRC Section 413(c). The Plan allowed Performance Materials employees to continue making contributions to the Plan through December 31, 2020. The Plan was also amended to allow employees of any former Participating Company, as defined in the Plan document, who has not had a separation of service from the former Participating Company to take new loans and continue making loan payments as agreed as part of a divestiture event.

On February 4, 2021, the Plan liquidated and transferred \$62,845,245 of Performance Materials participant balances to a third-party plan sponsored by Potters Buyer, LLC. The amount is included in the Statement of Changes in Net Assets Available for Benefits for the year ended December 31, 2021 as “Transfers out.”

Performance Chemicals divestiture

On August 1, 2021, the Parent Company completed the sale of its Performance Chemicals business to Sparta Aggregator L.P., a partnership established by Koch Minerals & Trading, LLC and Cerberus Capital Management, L.P. Prior to the close of the Performance Chemicals transaction, the Company signed a resolution to change the sponsorship of the Plan with Vanguard Fiduciary Trust Company (“VFTC”) from PQ Corporation to the Company, since the Plan remained with the Parent Company, as well as change the name of the Plan from PQ Corporation Savings Plan to Ecovyst 401(k) Savings Plan. The resolution also allowed Performance Chemicals employees to continue to make contributions through December 31, 2021.

On January 7, 2022, the Plan liquidated and transferred \$78,575,840 of Performance Chemicals participant balances, which includes participant notes receivables of \$1,028,204 as of December 31, 2021, to a third-party plan sponsored by PQ LLC.

Transfers in

On March 1, 2021, the Parent Company completed the acquisition of Chem32, LLC (“Chem32”). During the year ended December 31, 2021, Chem32’s 401(k) plan was terminated and the net assets of \$148,176 were transferred into the Plan. The amount is included in the Statement of Changes in Net Assets Available for Benefits for the year ended December 31, 2021 as “Transfers in”.

Contributions

The Plan provides for employee discretionary salary reduction (pre-tax) contributions. Non-highly compensated participating employees may elect to contribute up to 50% of their basic earnings to the Plan and highly compensated employees may elect to contribute up to 15% of their basic earnings (“basic contributions”). The Company will make matching contributions of 50% of the first 6% of an employee’s elective deferrals of their basic earnings. Due to limitations imposed by the IRC, the aggregate amount of compensation deferral pre-tax contributions with respect to any participant could not exceed \$20,500 and \$19,500 for December 31, 2022 and 2021, respectively. In addition, participants who attained age 50 by the end of the respective plan year were eligible to make additional catch up contributions of \$6,500 for the years ended December 31, 2022 and 2021. Employees may also elect to make additional after tax contributions (“voluntary contributions”), the maximum aggregate amount of which may not exceed 10% of the employee’s basic earnings for the calendar year. Participants may also roll-over amounts representing distributions from other qualified defined contribution plans.

**ECOVYST 401(K) SAVINGS PLAN
NOTES TO THE FINANCIAL STATEMENTS**

The Company makes annual contributions (“Annual Contributions”) ranging from 4% to 8% of eligible compensation for the plan year depending on certain factors such as age and years of service. Amounts totaling \$4,509,579 and \$5,495,436 were contributed as Annual Contributions for the years ended December 31, 2022 and 2021, respectively, which are included (along with Company matching contributions) in employer contributions in the Statements of Changes in Net Assets Available for Benefits.

Investment Options

Contributions to the Plan are invested, at the direction of the participants in accordance with ERISA Sec. 404(c), in a series of mutual funds or the Parent Company’s common stock. The Plan currently offers mutual funds or shares of the Parent Company’s common stock as investment options for participants through the Plan’s trustee, VFTC. Participants determine the amount to be invested and may make changes in their investment elections at any time.

Participant Accounts

Each participant’s account is credited with the participant’s contributions, Company contributions and Plan earnings (gains and losses). Participant accounts are charged directly for the expenses associated with the administration of their participant notes, as applicable (see Note 6). Administrative or recordkeeping fees are offset by applicable credits, if any, built into fund expense ratios. Any increase or decrease in the value of the funds and all income is credited to (or losses deducted from) the participants’ accounts in direct proportion to the respective amount in each account. The benefit to which participants are entitled is the benefit that can be provided from the participants’ vested account.

Vesting and Eligibility

All participants are fully vested in their basic, voluntary and rollover contributions plus earnings thereon. Participants vest in their matching contribution account at the rate of 33-1/3% per year and become fully vested after three years of service with the Company. Employees are eligible for Plan participation on any entry date (first day of the first pay period of any calendar month) upon completion of one or more hours of service. Participants are not vested in their Annual Contributions until the completion of three years of service, at which time they become 100% vested. Notwithstanding the above, all participants become 100% vested in all accounts upon normal retirement, death while an active employee (including while serving during qualified military leave) or total disability.

Forfeited Accounts

Non-vested Company contributions are forfeited under Plan rules and serve to offset the Company’s future contributions. The Company used \$225,020 and \$359,500 in forfeitures to offset Company contributions during the years ended December 31, 2022 and 2021, respectively. The amount of unused forfeitures in the Plan totaled \$143,826 and \$122,589 at December 31, 2022 and 2021, respectively.

Payment of Benefits and Withdrawals

Upon termination of service due to death, disability, retirement or other reasons, any participant may elect to immediately receive a lump sum distribution or installment payments, or combination of both equal to the vested interest of his or her account. If a participant is not fully vested in the Company matching contribution portion of his or her account on the date of termination of employment, the non-vested portion is forfeited. Upon attainment of age 59 1/2, participants may withdraw, not more than once per plan year, amounts from their rollover and basic contribution accounts. In addition, participants who have made voluntary after tax contributions may make withdrawals from their voluntary contribution accounts at any time, but are limited to two withdrawals during any plan year (subject to Internal Revenue Service penalties). The Plan allows participants to make hardship withdrawals of basic contributions subject to income taxation and Internal Revenue Service penalties from some or all of their vested account balances. The Plan’s management implemented the provisions of the CARES Act to allow certain affected participants to take a special COVID-19 related distribution of up to \$100,000 from qualified plans through December 31, 2020, which must be repaid within three years of the date of distribution in order for the participant to claim a refund for the income taxes paid on the distribution. Also, during the year ended December 31, 2020, the maximum age for required minimum distributions was increased to age 72 (from age 70 1/2). The SECURE 2.0 Act of 2022 increased the age to 73, beginning in 2023.

**ECOVYST 401(K) SAVINGS PLAN
NOTES TO THE FINANCIAL STATEMENTS**

Participant Notes Receivable

Eligible participants may also borrow from their accounts. The minimum that may be borrowed is \$1,000. The maximum that may be borrowed is the lesser of \$50,000, as adjusted, or 50% of a participant's vested account balance. The notes are secured by the balance in the participant's account. Principal and interest is paid ratably through monthly payroll deductions over five years or less (15 years if the note is for the purchase of a primary residence) with interest at rates that range from 4.25% to 8.50%, which are commensurate with prevailing rates at the time the loans are initiated. The Plan's management implemented the provisions of the CARES Act to allow for delaying the period for loan repayments by individuals affected by the COVID-19 pandemic, if applicable, for up to one year. This relief expired on December 31, 2021. Participants must pay a note origination fee as well as an annual note maintenance fee for each note. Participant notes are valued at their outstanding balances, which approximates fair value.

Plan Termination

Although it has not expressed any intent to do so, the Company has the right under the Plan to discontinue its contributions at any time and to terminate the Plan subject to the provisions of ERISA. In the event of a Plan termination, affected participants will become 100% vested in their accounts.

2. Summary of Significant Accounting Policies:

Basis of Accounting

The accompanying financial statements of the Plan are prepared on the accrual basis of accounting generally accepted in the United States of America.

Investment Valuation and Income Recognition

The investments of the Plan are stated at fair value. An asset's fair value is defined as the price at which the asset could be exchanged in a current transaction between market participants. A liability's fair value is defined as the amount that would be paid to transfer the liability to a market participant, not the amount that would be paid to settle the liability with the creditor. See Note 3 to these financial statements regarding the application of fair value measurements.

Purchases and sales of investments are recorded on a trade-date basis. Interest income is recorded as earned on an accrual basis. Dividends are recorded on the ex-dividend date. The Plan presents in the Statements of Changes in Net Assets Available for Benefits the net appreciation (depreciation) in fair value of investments which consists of realized gains or losses and unrealized appreciation or depreciation on those investments.

Payment of Benefits

Benefits are recorded when paid.

Use of Estimates

The preparation of financial statements in accordance with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and changes therein, and disclosure of contingent assets and liabilities. Actual results could differ from those estimates and these differences could be material.

Risks and Uncertainties

The Plan invests in various mutual fund investments and the Parent Company's common stock. Investment securities, in general, are exposed to various risks, such as interest rate, market volatility and credit risks. Due to the level of risk associated with certain investment securities and the level of uncertainty related to changes in the values of investment securities, it is at least reasonably possible that changes in the values of investment securities will occur in the near term and that such changes could materially affect participants' account balances and the amounts reported in the Statements of Net Assets Available for Benefits.

**ECOVYST 401(K) SAVINGS PLAN
NOTES TO THE FINANCIAL STATEMENTS**

3. Fair Value Measurements:

Accounting Standards Codification Topic 820, *Fair Value Measurements and Disclosures* (“ASC 820”), establishes a fair value hierarchy that prioritizes the inputs to valuation techniques used to measure fair value. The hierarchy gives the highest ranking to fair values determined using unadjusted quoted prices in active markets for identical assets or liabilities (Level 1) and the lowest ranking to fair values determined using methodologies and models with unobservable inputs (Level 3). The classification of an asset or a liability is based on the lowest level input that is significant to its measurement. For example, a Level 3 fair value measurement may include inputs that are both observable (Levels 1 and 2) and unobservable (Level 3). The levels of the fair value hierarchy under ASC 820 are described below:

Level 1—Values are unadjusted quoted prices for identical assets and liabilities in active markets accessible at the measurement date. Active markets provide pricing data for trades occurring at least weekly and include exchanges and dealer markets.

Level 2—Inputs include quoted prices of similar assets or liabilities in active markets, quoted prices from those willing to trade in markets that are not active, or other inputs that are observable or can be corroborated by market data for the term of the instrument. Such inputs include market interest rates and volatilities, spreads and yield curves.

Level 3—Certain inputs are unobservable (supported by little or no market activity) and significant to the fair value measurement. Unobservable inputs reflect the Company’s best estimate of what hypothetical market participants would use to determine a transaction price for the asset or liability at the reporting date.

Valuation methodologies maximize the use of relevant observable inputs and minimize the use of unobservable inputs. The following is a description of the valuation methodologies used for the Plan’s investment assets measured at fair value. There have been no changes in the valuation methodologies used at December 31, 2022 and 2021.

Mutual funds represent investments with various investment managers. The fair value of these investments is determined by reference to the fund’s underlying assets, which are principally marketable equity and fixed income securities. All of the Plan’s mutual fund investments are traded on national securities exchanges and are valued at their respective net asset values as of December 31, 2022 and 2021.

The Plan has an investment in the common shares of the Parent Company, which is listed on the New York Stock Exchange (“NYSE”) under the ticker symbol “ECVT”. The investment in Parent Company common stock is valued based on the number of shares held by the Plan at year-end multiplied by the closing price of the Parent Company’s common stock on the NYSE as of December 31, 2022 and 2021.

The following tables set forth by level within the fair value hierarchy the Plan investment assets at fair value, as of December 31, 2022 and 2021. As required by ASC 820, assets and liabilities are classified in their entirety based on the lowest level of input that is significant to the fair value measurement. The Plan had no financial liabilities as of December 31, 2022 and 2021.

Investment Assets at Fair Value as of December 31, 2022				
	Level 1	Level 2	Level 3	Total
Mutual funds	\$ 202,332,422	\$ —	\$ —	\$ 202,332,422
Parent Company common stock	264,789	—	—	264,789
Total investments at fair value	<u>\$ 202,597,211</u>	<u>\$ —</u>	<u>\$ —</u>	<u>\$ 202,597,211</u>

Investment Assets at Fair Value as of December 31, 2021				
	Level 1	Level 2	Level 3	Total
Mutual funds	\$ 325,583,364	\$ —	\$ —	\$ 325,583,364
Parent Company common stock	431,662	—	—	431,662
Total investments at fair value	<u>\$ 326,015,026</u>	<u>\$ —</u>	<u>\$ —</u>	<u>\$ 326,015,026</u>

The Plan’s investment in the Vanguard PRIMECAP Fund Admiral Shares totaling \$24,422,375 and \$36,251,586 as of December 31, 2022 and 2021, respectively, represents a concentration equal to or greater than 10% of the Plan’s net assets available for benefits.

**ECOVYST 401(K) SAVINGS PLAN
NOTES TO THE FINANCIAL STATEMENTS**

4. Tax Status:

The Internal Revenue Service has determined and informed the Company by a determination letter dated September 22, 2017 that the Plan and related trust are designed in accordance with applicable sections of the IRC. The Plan has been amended since receiving the determination letter. However, the Company and the Benefit Plans Committee believe the Plan is designed and currently being operated in compliance with the applicable requirements of the IRC.

Generally accepted accounting principles require plan management to evaluate tax positions taken by the Plan and recognize a tax liability (or asset) if the Plan has taken an uncertain position that more likely than not would not be sustained upon examination by the relevant taxing authority. The tax positions taken include the Plan status as a qualified plan. The Benefit Plans Committee believes that the Plan is operating in a manner that does not jeopardize its tax status. Therefore, no provision for income taxes has been included in the Plan's financial statements.

The Plan is subject to routine audits by taxing jurisdictions; however, there are currently no audits for any tax periods in progress. The Benefit Plans Committee believes the Plan is no longer subject to income tax examinations for years prior to 2019.

5. Terminated Participants:

When participants terminate employment with the Company or a participating affiliate, they may choose to leave their investments in the Plan, as long as their vested balance is greater than \$5,000. Terminated participants' accounts totaled \$93,297,341 and \$66,601,023 as of December 31, 2022 and 2021, respectively.

6. Administrative Expenses:

Overall administrative expenses can be settled and reduced using any revenue credits built into fund expense ratios (see Note 7). Although not obligated to do so, the Company has historically paid any net recordkeeping expenses of the Plan. Amounts reported as administrative expenses in the Statements of Changes in Net Assets Available for Benefits represent fees paid by participants for requested services. Participants' accounts are charged directly for these fees.

7. Related Party Transactions:

Certain Plan investments are shares of mutual funds managed by VFTC. VFTC is the trustee as defined by the Plan and therefore, these transactions qualify as party-in-interest transactions. The Plan holds shares of common stock in the Parent Company, representing qualifying employer securities as defined by ERISA. The Plan held qualifying employer securities valued at \$264,789 and \$431,662 at December 31, 2022 and 2021, respectively.

Notes to participants also qualify as party-in-interest transactions. Participant notes receivable were \$2,495,471 and \$3,512,451 as of December 31, 2022 and 2021, respectively. Fees paid to VFTC by Plan participants for note administration are reflected within administrative expenses in the Statements of Changes in Net Assets Available for Benefits. Including investment advisory fees paid by Plan participants, administrative expenses totaled \$219,649 and \$191,771 for the years ended December 31, 2022 and 2021, respectively.

Several of the mutual funds managed by VFTC and included under the Plan offer revenue credits as part of what is built into their expense ratio. These revenue credits are used to offset and reduce the administrative and recordkeeping fees of the Plan.

8. Nonexempt Transactions:

During the various payroll periods in the 2021 plan year, certain employee withholdings and loan payments totaling \$38,656 were not remitted timely to the Plan by the Company. Plan management remitted the earnings associated with the untimely remittances during year ended December 31, 2022. Plan management has implemented controls and procedures to mitigate similar errors in the future.

There were no such untimely remittances during the year ended December 31, 2022 for the 2022 plan year.

9. Subsequent Events:

The Company has evaluated subsequent events since the financial statement dates and determined that there are no items to disclose.

SUPPLEMENTAL SCHEDULES

ECOVYST 401(K) SAVINGS PLAN
Schedule H, Line 4i - Schedule of Assets (Held at End of Year)

EIN 23-0972750, Plan Number 003

			December 31, 2022	
(a)	(b) Identity of issue, borrower, lessor, or similar party	(c) Description of investment including maturity date, rate of interest, collateral, par, or maturity value	(d) Cost	(e) Current Value
*	The Vanguard Group	Vanguard PRIMECAP Fund Admiral Shares	a	\$ 24,422,375
*	The Vanguard Group	Vanguard Institutional Index Fund Inst'l Shares	a	19,072,743
*	The Vanguard Group	Vanguard Cash Reserves Federal MM Fund Admiral Shares	a	15,567,129
*	The Vanguard Group	Vanguard Target Retirement 2025 Fund	a	14,057,169
*	The Vanguard Group	Vanguard Total Bond Market Index Fund: Inst'l Shares	a	11,471,091
*	The Vanguard Group	Vanguard Target Retirement 2030 Fund	a	10,280,493
*	The Vanguard Group	Vanguard Target Retirement 2020 Fund	a	9,668,290
*	The Vanguard Group	Vanguard Windsor II Fund Admiral Shares	a	9,245,250
*	The Vanguard Group	Vanguard Target Retirement 2035 Fund	a	8,456,281
*	The Vanguard Group	Vanguard Wellington Fund Admiral Shares	a	8,293,571
*	The Vanguard Group	Vanguard Target Retirement Income	a	8,116,070
*	The Vanguard Group	Vanguard Total Stock Market Index Fund Admiral Shares	a	6,585,826
*	The Vanguard Group	Vanguard Total International Stock Index Fund Admiral Shares	a	6,432,051
*	The Vanguard Group	Vanguard Mid-Cap Index Fund Investor Shares	a	6,371,722
*	The Vanguard Group	Vanguard Target Retirement 2040 Fund	a	6,326,072
*	The Vanguard Group	Vanguard Target Retirement 2045 Fund	a	5,439,379
*	The Vanguard Group	Vanguard U.S. Growth Fund Investor Shares	a	4,613,509
*	The Vanguard Group	Vanguard Small-Cap Index Fund Investor Shares	a	4,513,144
*	The Vanguard Group	Vanguard Target Retirement 2050 Fund	a	4,504,258
*	The Vanguard Group	Vanguard Explorer Fund Investor Shares	a	4,328,241
*	The Vanguard Group	Vanguard International Growth Fund Investor Shares	a	3,636,447
*	The Vanguard Group	Vanguard Wellesley Income Fund Investor Shares	a	3,246,719
*	The Vanguard Group	Vanguard Target Retirement 2055 Fund	a	2,801,676
	Fidelity Investments	Fidelity Value Fund Retail Class	a	1,943,007
	PIMCO	PIMCO Total Return Fund, Administrative Class	a	1,838,891
*	The Vanguard Group	Vanguard Target Retirement 2060 Fund	a	911,891
*	The Vanguard Group	Vanguard Target Retirement 2065 Fund	a	189,127
*	Ecovyst Inc.	Ecovyst Stock Fund	a	264,789
*	Participants	Participant notes receivable, interest rates from 4.25% to 8.50%	—	2,495,471
	Total			<u><u>\$ 205,092,682</u></u>

* - Indicates a party-in-interest to the Plan

a - The cost of participant directed investments is not required to be disclosed

See the accompanying Independent Auditor's Report.

ECOVYST 401(K) SAVINGS PLAN
Schedule H, Line 4a - Schedule of Delinquent Participant Contributions

EIN 23-0972750, Plan Number 003

Total that Constitute Nonexempt Prohibited Transactions						
Year	Participant Contributions and Notes Receivable Repayments Transferred Late to Plan	Contributions not Corrected	Contributions Corrected Outside of VFCP	Contributions Pending Correction in VFCP	Total Fully Corrected Under VFCP and PTE 2002-51	
2021	\$ 38,656	\$ —	\$ 38,656	\$ —	\$ —	

See the accompanying Independent Auditor's Report.

SUPPLEMENTAL SCHEDULES

ECOVYST 401(K) SAVINGS PLAN
Schedule H, Line 4i - Schedule of Assets (Held at End of Year)

EIN 23-0972750, Plan Number 003

			December 31, 2022	
(a)	(b) Identity of issue, borrower, lessor, or similar party	(c) Description of investment including maturity date, rate of interest, collateral, par, or maturity value	(d) Cost	(e) Current Value
*	The Vanguard Group	Vanguard PRIMECAP Fund Admiral Shares	a	\$ 24,422,375
*	The Vanguard Group	Vanguard Institutional Index Fund Inst'l Shares	a	19,072,743
*	The Vanguard Group	Vanguard Cash Reserves Federal MM Fund Admiral Shares	a	15,567,129
*	The Vanguard Group	Vanguard Target Retirement 2025 Fund	a	14,057,169
*	The Vanguard Group	Vanguard Total Bond Market Index Fund: Inst'l Shares	a	11,471,091
*	The Vanguard Group	Vanguard Target Retirement 2030 Fund	a	10,280,493
*	The Vanguard Group	Vanguard Target Retirement 2020 Fund	a	9,668,290
*	The Vanguard Group	Vanguard Windsor II Fund Admiral Shares	a	9,245,250
*	The Vanguard Group	Vanguard Target Retirement 2035 Fund	a	8,456,281
*	The Vanguard Group	Vanguard Wellington Fund Admiral Shares	a	8,293,571
*	The Vanguard Group	Vanguard Target Retirement Income	a	8,116,070
*	The Vanguard Group	Vanguard Total Stock Market Index Fund Admiral Shares	a	6,585,826
*	The Vanguard Group	Vanguard Total International Stock Index Fund Admiral Shares	a	6,432,051
*	The Vanguard Group	Vanguard Mid-Cap Index Fund Investor Shares	a	6,371,722
*	The Vanguard Group	Vanguard Target Retirement 2040 Fund	a	6,326,072
*	The Vanguard Group	Vanguard Target Retirement 2045 Fund	a	5,439,379
*	The Vanguard Group	Vanguard U.S. Growth Fund Investor Shares	a	4,613,509
*	The Vanguard Group	Vanguard Small-Cap Index Fund Investor Shares	a	4,513,144
*	The Vanguard Group	Vanguard Target Retirement 2050 Fund	a	4,504,258
*	The Vanguard Group	Vanguard Explorer Fund Investor Shares	a	4,328,241
*	The Vanguard Group	Vanguard International Growth Fund Investor Shares	a	3,636,447
*	The Vanguard Group	Vanguard Wellesley Income Fund Investor Shares	a	3,246,719
*	The Vanguard Group	Vanguard Target Retirement 2055 Fund	a	2,801,676
	Fidelity Investments	Fidelity Value Fund Retail Class	a	1,943,007
	PIMCO	PIMCO Total Return Fund, Administrative Class	a	1,838,891
*	The Vanguard Group	Vanguard Target Retirement 2060 Fund	a	911,891
*	The Vanguard Group	Vanguard Target Retirement 2065 Fund	a	189,127
*	Ecovyst Inc.	Ecovyst Stock Fund	a	264,789
*	Participants	Participant notes receivable, interest rates from 4.25% to 8.50%	—	2,495,471
	Total			<u>\$ 205,092,682</u>

* - Indicates a party-in-interest to the Plan

a - The cost of participant directed investments is not required to be disclosed

See the accompanying Independent Auditor's Report.