

<div>Form 5500</div> <div>Department of the Treasury Internal Revenue Service</div> <div>Department of Labor Employee Benefits Security Administration</div> <div>Pension Benefit Guaranty Corporation</div>	<div>Annual Return/Report of Employee Benefit Plan</div> <div>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).</div> <div>▶ Complete all entries in accordance with the instructions to the Form 5500.</div>	<div>OMB Nos. 1210-0110 1210-0089</div> <div>2022</div> <div>This Form is Open to Public Inspection</div>
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Part I	Annual Report Identification Information
For calendar plan year 2022 or fiscal plan year beginning 07/01/2022 and ending 06/30/2023	
A	This return/report is for: <div>☐ a multiemployer plan</div> <div>☒ a single-employer plan</div> <div>☐ a multiple-employer plan (Filers checking this box must attach a list of participating employer information in accordance with the form instructions.)</div> <div>☐ a DFE (specify) _____</div>
B	This return/report is: <div>☐ the first return/report</div> <div>☐ the final return/report</div> <div>☐ an amended return/report</div> <div>☐ a short plan year return/report (less than 12 months)</div>
C	If the plan is a collectively-bargained plan, check here. ▶ ☐
D	Check box if filing under: <div>☒ Form 5558</div> <div>☐ automatic extension</div> <div>☐ the DFVC program</div> <div>☐ special extension (enter description)</div>
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 PENSION PLAN OF THE PACIFIC NORTHWEST LABORATORIES BATTELLE MEMORIAL INSTITUTE	1b	Three-digit plan number (PN) ▶ 005
		1c	Effective date of plan 07/18/1941
2a	Plan sponsor's name (employer, if for a single-employer plan) Mailing address (include room, apt., suite no. and street, or P.O. Box) City or town, state or province, country, and ZIP or foreign postal code (if foreign, see instructions) BATTELLE MEMORIAL INSTITUTE 505 KING AVENUE COLUMBUS, OH 43201	2b	Employer Identification Number (EIN) 31-4379427
		2c	Plan Sponsor's telephone number 614-424-7104
		2d	Business code (see instructions) 541990

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.	04/15/2024	DAVE DAVENPORT
	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

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		5 9151
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).		
a(1) Total number of active participants at the beginning of the plan year		6a(1) 4661
a(2) Total number of active participants at the end of the plan year		6a(2) 5086
b Retired or separated participants receiving benefits		6b 2867
c Other retired or separated participants entitled to future benefits.....		6c 1317
d Subtotal. Add lines 6a(2) , 6b , and 6c		6d 9270
e Deceased participants whose beneficiaries are receiving or are entitled to receive benefits.		6e 348
f Total. Add lines 6d and 6e		6f 9618
g Number of participants with account balances as of the end of the plan year (only defined contribution plans complete this item).....		6g
h Number of participants who terminated employment during the plan year with accrued benefits that were less than 100% vested.....		6h 116
7 Enter the total number of employers obligated to contribute to the plan (only multiemployer plans complete this item)		7
8a If the plan provides pension benefits, enter the applicable pension feature codes from the List of Plan Characteristics Codes in the instructions: 1A 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 SB (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Single-Employer Defined Benefit Plan Actuarial Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA) and section 6059 of the Internal Revenue Code (the Code). ▶ File as an attachment to Form 5500 or 5500-SF.	OMB No. 1210-0110 2022 This Form is Open to Public Inspection
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For calendar plan year 2022 or fiscal plan year beginning 07/01/2022 and ending 06/30/2023

▶ **Round off amounts to nearest dollar.**

▶ **Caution:** A penalty of \$1,000 will be assessed for late filing of this report unless reasonable cause is established.

A Name of plan <u>PENSION PLAN OF THE PACIFIC NORTHWEST LABORATORIES BATTELLE MEMORIAL INSTITUTE</u>	B Three-digit plan number (PN) ▶ <u>005</u>
C Plan sponsor's name as shown on line 2a of Form 5500 or 5500-SF <u>BATTELLE MEMORIAL INSTITUTE</u>	D Employer Identification Number (EIN) <u>31-4379427</u>
E Type of plan: ☒ Single ☐ Multiple-A ☐ Multiple-B	F Prior year plan size: ☐ 100 or fewer ☐ 101-500 ☒ More than 500

Part I	Basic Information
1 Enter the valuation date: Month <u>07</u> Day <u>01</u> Year <u>2022</u>	
2 Assets:	
a Market value.....	2a <u>1901084627</u>
b Actuarial value	2b <u>2046019598</u>
3 Funding target/participant count breakdown	(1) Number of participants (2) Vested Funding Target (3) Total Funding Target
a For retired participants and beneficiaries receiving payment	<u>3183</u> <u>947804435</u> <u>947804435</u>
b For terminated vested participants.....	<u>1393</u> <u>157571596</u> <u>157571596</u>
c For active participants.....	<u>4661</u> <u>510830464</u> <u>524184188</u>
d Total	<u>9237</u> <u>1616206495</u> <u>1629560219</u>
4 If the plan is in at-risk status, check the box and complete lines (a) and (b)..... ☐	
a Funding target disregarding prescribed at-risk assumptions.....	4a
b Funding target reflecting at-risk assumptions, but disregarding transition rule for plans that have been in at-risk status for fewer than five consecutive years and disregarding loading factor	4b
5 Effective interest rate.....	5 <u>5.46</u> %
6 Target normal cost	
a Present value of current plan year accruals.....	6a <u>40976679</u>
b Expected plan-related expenses	6b <u>16185000</u>
c Total (line 6a + line 6b)	6c <u>57161679</u>

Statement by Enrolled Actuary

To the best of my knowledge, the information supplied in this schedule and accompanying schedules, statements and attachments, if any, is complete and accurate. Each prescribed assumption was applied in accordance with applicable law and regulations. In my opinion, each other assumption is reasonable (taking into account the experience of the plan and reasonable expectations) and such other assumptions, in combination, offer my best estimate of anticipated experience under the plan.

SIGN HERE		<u>02/27/2024</u>
	Signature of actuary	Date
<u>AMY WELSMAN, FSA, EA</u>	Type or print name of actuary	<u>23-08757</u>
		Most recent enrollment number
<u>MERCER</u>	Firm name	<u>248-945-5500</u>
		Telephone number (including area code)
<u>ONE TOWNE SQUARE, SUITE 1100</u> <u>SOUTHFIELD, MI 48076</u>	Address of the firm	

If the actuary has not fully reflected any regulation or ruling promulgated under the statute in completing this schedule, check the box and see instructions ☐

Part II		Beginning of Year Carryover and Prefunding Balances	
		(a) Carryover balance	(b) Prefunding balance
7	Balance at beginning of prior year after applicable adjustments (line 13 from prior year).....		337405798
8	Portion elected for use to offset prior year's funding requirement (line 35 from prior year)		
9	Amount remaining (line 7 minus line 8)		337405798
10	Interest on line 9 using prior year's actual return of <u>-8.86</u> %		-29894154
11	Prior year's excess contributions to be added to prefunding balance:		
	a Present value of excess contributions (line 38a from prior year).....		42726169
	b(1) Interest on the excess, if any, of line 38a over line 38b from prior year Schedule SB, using prior year's effective interest rate of <u>5.63</u> %.....		2405483
	b(2) Interest on line 38b from prior year Schedule SB, using prior year's actual return		
	c Total available at beginning of current plan year to add to prefunding balance.....		45131652
	d Portion of (c) to be added to prefunding balance.....		45131652
12	Other reductions in balances due to elections or deemed elections		
13	Balance at beginning of current year (line 9 + line 10 + line 11d – line 12).....	0	352643296

Part III		Funding Percentages	
14	Funding target attainment percentage	14	103.91 %
15	Adjusted funding target attainment percentage	15	125.55 %
16	Prior year's funding percentage for purposes of determining whether carryover/prefunding balances may be used to reduce current year's funding requirement.....	16	105.18 %
17	If the current value of the assets of the plan is less than 70 percent of the funding target, enter such percentage.	17	%

Part IV		Contributions and Liquidity Shortfalls	
18 Contributions made to the plan for the plan year by employer(s) and employees:			
(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees	
07/28/2023	5000000		
08/17/2023	5000000		
09/13/2023	10000000		
		Totals ►	18(b) 20000000 18(c)

19	Discounted employer contributions – see instructions for small plan with a valuation date after the beginning of the year:	
	a Contributions allocated toward unpaid minimum required contributions from prior years.....	19a
	b Contributions made to avoid restrictions adjusted to valuation date.	19b
	c Contributions allocated toward minimum required contribution for current year adjusted to valuation date.	19c 18812349
20	Quarterly contributions and liquidity shortfalls:	
	a Did the plan have a "funding shortfall" for the prior year?	☐ Yes ☒ No
	b If line 20a is "Yes," were required quarterly installments for the current year made in a timely manner?	☐ Yes ☐ No
	c If line 20a is "Yes," see instructions and complete the following table as applicable:	

Liquidity shortfall as of end of quarter of this plan year			
(1) 1st	(2) 2nd	(3) 3rd	(4) 4th

Part V Assumptions Used to Determine Funding Target and Target Normal Cost

21 Discount rate:				
a Segment rates:	1st segment: 4.75 %	2nd segment: 5.18 %	3rd segment: 5.92 %	☐ N/A, full yield curve used
b Applicable month (enter code).....				21b 4
22 Weighted average retirement age				22 62
23 Mortality table(s) (see instructions)	☐ Prescribed - combined ☒ Prescribed - separate ☐ Substitute			

Part VI Miscellaneous Items

24 Has a change been made in the non-prescribed actuarial assumptions for the current plan year? If "Yes," see instructions regarding required attachment.	☒ Yes	☐ No
25 Has a method change been made for the current plan year? If "Yes," see instructions regarding required attachment.	☐ Yes	☒ No
26 Demographic and benefit information		
a Is the plan required to provide a Schedule of Active Participants? If "Yes," see instructions regarding required attachment.	☒ Yes	☐ No
b Is the plan required to provide a projection of expected benefit payments? If "Yes," see instructions regarding required attachment ...	☒ Yes	☐ No
27 If the plan is subject to alternative funding rules, enter applicable code and see instructions regarding attachment	27	

Part VII Reconciliation of Unpaid Minimum Required Contributions For Prior Years

28 Unpaid minimum required contributions for all prior years.....	28	
29 Discounted employer contributions allocated toward unpaid minimum required contributions from prior years (line 19a)	29	
30 Remaining amount of unpaid minimum required contributions (line 28 minus line 29)	30	0

Part VIII Minimum Required Contribution For Current Year

31 Target normal cost and excess assets (see instructions):												
a Target normal cost (line 6c).....	31a	57161679										
b Excess assets, if applicable, but not greater than line 31a	31b	57161679										
32 Amortization installments:	<table border="1"> <thead> <tr> <th></th> <th>Outstanding Balance</th> <th>Installment</th> </tr> </thead> <tbody> <tr> <td>a Net shortfall amortization installment</td> <td></td> <td></td> </tr> <tr> <td>b Waiver amortization installment</td> <td></td> <td></td> </tr> </tbody> </table>				Outstanding Balance	Installment	a Net shortfall amortization installment			b Waiver amortization installment		
	Outstanding Balance	Installment										
a Net shortfall amortization installment												
b Waiver amortization installment												
33 If a waiver has been approved for this plan year, enter the date of the ruling letter granting the approval (Month _____ Day _____ Year _____) and the waived amount	33											
34 Total funding requirement before reflecting carryover/prefunding balances (lines 31a - 31b + 32a + 32b - 33)....	34											
		Carryover balance	Prefunding balance									
35 Balances elected for use to offset funding requirement.....												
36 Additional cash requirement (line 34 minus line 35)	36											
37 Contributions allocated toward minimum required contribution for current year adjusted to valuation date (line 19c).....	37	18812349										
38 Present value of excess contributions for current year (see instructions)												
a Total (excess, if any, of line 37 over line 36)	38a	18812349										
b Portion included in line 38a attributable to use of prefunding and funding standard carryover balances	38b											
39 Unpaid minimum required contribution for current year (excess, if any, of line 36 over line 37)	39	0										
40 Unpaid minimum required contributions for all years.....	40											

Part IX Pension Funding Relief Under the American Rescue Plan Act of 2021 (See Instructions)

41 If an election was made to use the extended amortization rule for a plan year beginning on or before December 31, 2021, check the box to indicate the first plan year for which the rule applies. ☒ 2019 ☐ 2020 ☐ 2021
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<div>SCHEDULE C</div> <div>(Form 5500)</div> <div>Department of the Treasury Internal Revenue Service</div> <div>Department of Labor Employee Benefits Security Administration</div> <div>Pension Benefit Guaranty Corporation</div>	<div>Service Provider Information</div> <div>This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA).</div> <div>▶ File as an attachment to Form 5500.</div>	OMB No. 1210-0110
		2022
		This Form is Open to Public Inspection.

For calendar plan year 2022 or fiscal plan year beginning 07/01/2022 and ending 06/30/2023		
<div>A Name of plan</div> <div>PENSION PLAN OF THE PACIFIC NORTHWEST LABORATORIES BATTELLE MEMORIAL INSTITUTE</div>	<div>B Three-digit plan number (PN)</div> <div>▶</div> <div>005</div>	
<div>C Plan sponsor's name as shown on line 2a of Form 5500</div> <div>BATTELLE MEMORIAL INSTITUTE</div>	<div>D Employer Identification Number (EIN)</div> <div>31-4379427</div>	

Part I Service Provider Information (see instructions)

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).

<div>(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation</div> <div>HARBOURVEST PARTNERS LP</div> <div>74-3130888</div>
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<div>(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation</div> <div>HARBOURVEST VIII - BUYOUT ASSOC LP</div> <div>51-0578242</div>

<div>(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation</div> <div>HIPEP V - PARTNERSHIP ASSOCS LP</div> <div>55-0897492</div>
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<div>(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation</div> <div>GOLDMAN SACHS ASSET MANAGEMENT LP</div> <div>13-3575636</div>
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(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

GOLDMAN SACHS & CO. LLC

13-3501777

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

METLIFE INVESTMENT MANAGEMENT

13-4075851

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

BRIGADE CAPITAL MANAGEMENT, LP

26-0240191

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

PINEBRIDGE INVESTMENTS LLC

47-5317063

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

PUTNAM INVESTMENT MANAGEMENT LLC

04-3542621

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

LAZARD ASSET MANAGEMENT LLC

30 ROCKEFELLER PLAZA
NEW YORK, NY 10112

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

JP MORGAN INVESTMENT MANAGEMENT

13-3200244

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

THE NORTHERN TRUST COMPANY

36-1561860

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)

NORTHERN TRUST CORPORATION

36-2723087

(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?
21 51	NONE	692408	Yes ☒ No ☐	Yes ☒ No ☐	0	Yes ☐ No ☒

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

TELUS HEALTH (US) LTD.

52-1883918

(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	NONE	599088	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

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

LINDSELL TRAIN LIMITED

98-1104976

(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?
28 51	NONE	528814	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

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)

BAILLIE GIFFORD OVERSEAS, LTD.

22-3438530

(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?
51 52 28	NONE	500646	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

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

BLACK CREEK INVESTMENT MANAGEMENT

1200-123 FRONT ST W.
TORONTO, ONTARIO M5J 2M2 CA

(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?
28	NONE	415560	Yes ☒ No ☐	Yes ☒ No ☐	0	Yes ☒ No ☐

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

POLARIS CAPITAL MANAGEMENT LLC

74-3243565

(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?
28 27	NONE	335035	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

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)

WILLIS TOWERS WATSON

53-0181291

(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?
17 27	NONE	328248	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

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

STATE STREET GLOBAL ADVISORS

81-4017137

(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?
19 51 18	NONE	326574	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

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

MERCER

13-2834414

(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?
11 17	NONE	303386	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

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)

ENCAP INVESTMENTS LP

9651 KATY FREEWAY SIXTH FLOOR
HOUSTON, TX 77024

(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?
28	NONE	167131	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

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

BATTELLE MEMORIAL INSTITUTE

31-4379427

(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?
14	PLAN SPONSOR	158370	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

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

BRICKER GRAYDON LLP

31-0565234

(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?
29	NONE	137271	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

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)

PARAMETRIC PORTFOLIO ASSOCIATES LLC

20-0292745

(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?
28	NONE	134829	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

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

RIVER AND MERCANTILE ASSET MGMT LLP

30 COLEMAN STREET
LONDON EC2R 5AL GB

(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?
28 51	NONE	126014	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

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

CAMBRIDGE ASSOCIATES LLC

04-3515240

(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?
27	NONE	116252	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

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)

LOOMIS SAYLES

04-3200030

(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?
28	NONE	71064	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

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

FORTRESS JAPAN OPPORTUNITY FUND

98-0662006

(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?
28	NONE	66191	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

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

WELLINGTON TRUST COMPANY

04-2755549

(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?
51	NONE	66073	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

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)

CLARION LION PROPERTIES FUND

13-4087331

(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?
28	NONE	53887	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

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

INVESCO INVESTMENT SERVICES, INC.

430 WEST 7TH STREET
KANSAS CITY, MO 64105-1407

(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?
28	NONE	49755	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

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

CROWE LLP

35-0921680

(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?
10	NONE	43275	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

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)

MEADEN & MOORE, LTD.

34-1818258

(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?
10	NONE	38003	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

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

GROOM LAW GROUP, CHARTERED

52-1219029

(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?
29	NONE	29765	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

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

KENT RINKER

31-4379427

(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?
17	EMPLOYEE OF PLAN SPONSOR	28060	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

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)

STEVE YOUNG

31-4379427

(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?
17	EMPLOYEE OF PLAN SPONSOR	28060	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

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

LEONARD ESSEX

31-4379427

(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?
17	EMPLOYEE OF PLAN SPONSOR	22448	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

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

ANTONIO CAXIDE

31-4379427

(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?
17	EMPLOYEE OF PLAN SPONSOR	22448	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

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)

MARTIN CONGER

31-4379427

(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?
17	EMPLOYEE OF PLAN SPONSOR	22448	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

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

PRUDENTIAL INSURANCE CO OF AMERICA

22-1211670

(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?
28 51	NONE	14844	Yes ☒ No ☐	Yes ☒ No ☐	0	Yes ☐ No ☒

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

AXIUM INFRASTRUCTURE

425-120 ADALAIDE STREET SW
TORONTO, ONTARIO M5H1T1 CA

(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?
28	NONE	6308	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
(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.	
(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:	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:

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

Explanation:

<div>SCHEDULE D (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration</div>	<div>DFE/Participating Plan Information</div> <div>This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA).</div> <div>► File as an attachment to Form 5500.</div>	<div>OMB No. 1210-0110</div> <div>2022</div> <div>This Form is Open to Public Inspection.</div>
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For calendar plan year 2022 or fiscal plan year beginning 07/01/2022 and ending 06/30/2023		
A Name of plan PENSION PLAN OF THE PACIFIC NORTHWEST LABORATORIES BATTELLE MEMORIAL INSTITUTE	B Three-digit plan number (PN) ►	005
C Plan or DFE sponsor's name as shown on line 2a of Form 5500 BATTELLE MEMORIAL INSTITUTE	D Employer Identification Number (EIN) 31-4379427	

Part I	Information on interests in MTIAs, CCTs, PSAs, and 103-12 IEs (to be completed by plans and DFEs) (Complete as many entries as needed to report all interests in DFEs)
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a Name of MTIA, CCT, PSA, or 103-12 IE: BATTELLE PENSION TRUST		
b Name of sponsor of entity listed in (a): BATTELLE MEMORIAL INSTITUTE		
c EIN-PN 31-4379427-004	d Entity code M	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 1807333879
a Name of MTIA, CCT, PSA, or 103-12 IE:		
b Name of sponsor of entity listed in (a):		
c EIN-PN	d Entity code	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
a Name of MTIA, CCT, PSA, or 103-12 IE:		
b Name of sponsor of entity listed in (a):		
c EIN-PN	d Entity code	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
a Name of MTIA, CCT, PSA, or 103-12 IE:		
b Name of sponsor of entity listed in (a):		
c EIN-PN	d Entity code	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
a Name of MTIA, CCT, PSA, or 103-12 IE:		
b Name of sponsor of entity listed in (a):		
c EIN-PN	d Entity code	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
a Name of MTIA, CCT, PSA, or 103-12 IE:		
b Name of sponsor of entity listed in (a):		
c EIN-PN	d Entity code	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
a Name of MTIA, CCT, PSA, or 103-12 IE:		
b Name of sponsor of entity listed in (a):		
c EIN-PN	d Entity code	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
a Name of MTIA, CCT, PSA, or 103-12 IE:		
b Name of sponsor of entity listed in (a):		
c EIN-PN	d Entity code	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)

a Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
code**e** Dollar value of interest in MTIA, CCT, PSA, or
103-12 IE at end of year (see instructions)**a** Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
code**e** Dollar value of interest in MTIA, CCT, PSA, or
103-12 IE at end of year (see instructions)**a** Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
code**e** Dollar value of interest in MTIA, CCT, PSA, or
103-12 IE at end of year (see instructions)**a** Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
code**e** Dollar value of interest in MTIA, CCT, PSA, or
103-12 IE at end of year (see instructions)**a** Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
code**e** Dollar value of interest in MTIA, CCT, PSA, or
103-12 IE at end of year (see instructions)**a** Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
code**e** Dollar value of interest in MTIA, CCT, PSA, or
103-12 IE at end of year (see instructions)**a** Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
code**e** Dollar value of interest in MTIA, CCT, PSA, or
103-12 IE at end of year (see instructions)**a** Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
code**e** Dollar value of interest in MTIA, CCT, PSA, or
103-12 IE at end of year (see instructions)**a** Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
code**e** Dollar value of interest in MTIA, CCT, PSA, or
103-12 IE at end of year (see instructions)**a** Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
code**e** Dollar value of interest in MTIA, CCT, PSA, or
103-12 IE at end of year (see instructions)

Part II **Information on Participating Plans (to be completed by DFEs)**

(Complete as many entries as needed to report all participating plans)

a Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
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plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN

SCHEDULE H (Form 5500) <small>Department of the Treasury Internal Revenue Service</small> <small>Department of Labor Employee Benefits Security Administration</small> <small>Pension Benefit Guaranty Corporation</small>	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 07/01/2022 and ending 06/30/2023		
A Name of plan PENSION PLAN OF THE PACIFIC NORTHWEST LABORATORIES BATTELLE MEMORIAL INSTITUTE	B Three-digit plan number (PN) ►	005
C Plan sponsor's name as shown on line 2a of Form 5500 BATTELLE MEMORIAL INSTITUTE	D Employer Identification Number (EIN) 31-4379427	

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)	20620000	20000000
(2) Participant contributions.....	1b(2)		
(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)		
(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)	1880613809	1807333879
(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)		
(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)		
(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	1901233809	1827333879

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		

Net Assets

l Net assets (subtract line 1k from line 1f)	1l	1901233809	1827333879
---	-----------	------------	------------

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)	20000000	
(B) Participants	2a(1)(B)		
(C) Others (including rollovers)	2a(1)(C)		
(2) Noncash contributions	2a(2)		
(3) Total contributions. Add lines 2a(1)(A) , (B) , (C) , and line 2a(2)	2a(3)		20000000
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)		
(F) Other	2b(1)(F)		
(G) Total interest. Add lines 2b(1)(A) through (F)	2b(1)(G)		
(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)		
(D) Total dividends. Add lines 2b(2)(A) , (B) , and (C)	2b(2)(D)		
(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)		
(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)		

		(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)		11150999
(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)		
c Other income	2c		
d Total income. Add all income amounts in column (b) and enter total	2d		31150999
Expenses			
e Benefit payment and payments to provide benefits:			
(1) Directly to participants or beneficiaries, including direct rollovers	2e(1)	93707725	
(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)		93707725
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)	8038458	
(2) Contract administrator fees	2i(2)		
(3) Investment advisory and management fees	2i(3)	3304746	
(4) Other	2i(4)		
(5) Total administrative expenses. Add lines 2i(1) through (4)	2i(5)		11343204
j Total expenses. Add all expense amounts in column (b) and enter total	2j		105050929
Net Income and Reconciliation			
k Net income (loss). Subtract line 2j from line 2d	2k		-73899930
l Transfers of assets:			
(1) To this plan	2l(1)		
(2) From this plan	2l(2)		

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: **MEADEN AND MOORE, LTD**

(2) EIN: **34-1818258**

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		10000000
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			
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)

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 498632.

<div>SCHEDULE R (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation</div>	<div>Retirement Plan Information</div> <div>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).</div> <div>► File as an attachment to Form 5500.</div>	<div>OMB No. 1210-0110</div> <div>2022</div> <div>This Form is Open to Public Inspection.</div>
For calendar plan year 2022 or fiscal plan year beginning 07/01/2022 and ending 06/30/2023		
A Name of plan PENSION PLAN OF THE PACIFIC NORTHWEST LABORATORIES BATTELLE MEMORIAL INSTITUTE		B Three-digit plan number (PN) ► 005
C Plan sponsor's name as shown on line 2a of Form 5500 BATTELLE MEMORIAL INSTITUTE		D Employer Identification Number (EIN) 31-4379427
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): 36-3046063		
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 86
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

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: 40.5 % Investment-Grade Debt: 32.9 % High-Yield Debt: 12.6 % Real Estate: 7.8 % Other: 6.2 %

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 _____

Pension Plan of the Pacific Northwest Laboratories, Battelle Memorial Institute

Employer Identification Number: 31-4379427
Plan Number: 005

Financial Statements as of and for the
Years Ended June 30, 2023 and 2022, and
Independent Auditor's Report

**PENSION PLAN OF THE PACIFIC NORTHWEST LABORATORIES,
BATTELLE MEMORIAL INSTITUTE**

TABLE OF CONTENTS

	Page
INDEPENDENT AUDITOR’S REPORT	1 - 3
FINANCIAL STATEMENTS:	
Statements of Net Assets Available for Benefits as of June 30, 2023 and 2022	4
Statements of Changes in Net Assets Available for Benefits for the Years Ended June 30, 2023 and 2022	5
Notes to Financial Statements as of and for the Years Ended June 30, 2023 and 2022	6 - 20
SUPPLEMENTAL SCHEDULE:	
Schedule of Assets Held for Investment Purposes at End of Year	21



INDEPENDENT AUDITOR'S REPORT

To the Plan Administrator and
Battelle Pension Management and Investment Council
Columbus, Ohio

Opinion

We have audited the financial statements of Pension Plan of the Pacific Northwest Laboratories, Battelle Memorial Institute (the "Plan"), an employee benefit plan subject to the Employee Retirement Income Security Act of 1974 (ERISA), which comprise the statement of net assets available for benefits as of June 30, 2023 and 2022, and the related statement 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 benefits of the Plan as of June 30, 2023 and 2022, and the changes in net assets available for benefits for the years then ended in accordance with accounting principles generally accepted in the United States of America.

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 the financial statements in accordance with accounting principles generally accepted in the United States of America, 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 for one year after the date that the financial statements are available to be issued.

Management is also responsible for maintaining a current plan instrument, including all plan amendments, 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.

Meaden & Moore, Ltd.

(A Meaden & Moore Affiliate Company)

1375 East Ninth Street, Suite 1800 | Cleveland, OH 44114-1790 | P (216) 241-3272 | F (216) 771-4511 | meadenmoore.com

Auditor's Responsibilities for the Audit 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.
- 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.

Other Matter - Supplemental Schedule Required by ERISA

Our audit was conducted for the purpose of forming an opinion on the financial statements as a whole. The supplemental Schedule of Assets Held for Investment Purposes at End of Year as of June 30, 2023 is presented for purposes of additional analysis and is not a required part of the financial statements but is 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 schedule, we evaluated whether the supplemental schedule, including its form and content, is 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 schedule is 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.

Meaden & Moore, Ltd.

Meaden & Moore, Ltd.
Columbus, Ohio

April 15, 2024

STATEMENTS OF NET ASSETS AVAILABLE FOR BENEFITS

Pension Plan of the Pacific Northwest Laboratories, Battelle Memorial Institute

	(In Thousands)	
	June 30	
	2023	2022
ASSETS		
Receivable - Employer contributions	\$ 20,000	\$ 20,620
Investments (at Fair Value):		
Plan Interest in Master Trust	<u>1,807,334</u>	<u>1,880,614</u>
Net Assets Available for Benefits	<u>\$ 1,827,334</u>	<u>\$ 1,901,234</u>

See accompanying notes.

STATEMENTS OF CHANGES IN NET ASSETS AVAILABLE FOR BENEFITS

Pension Plan of the Pacific Northwest Laboratories, Battelle Memorial Institute

	(In Thousands)	
	Year Ended June 30	
	2023	2022
Additions to Net Assets Attributed to:		
Contributions:		
Employer	\$ 20,000	\$ 45,000
Investment Income:		
Plan Interest in Master Trust Income	11,151	-
Total Additions	31,151	45,000
Deductions from Net Assets Attributed to:		
Plan Interest in Master Trust Income	-	185,238
Benefits paid to participants or beneficiaries	93,708	90,030
Administrative expenses	11,343	10,076
Total Deductions	105,051	285,344
Net Decrease	(73,900)	(240,344)
Net Assets Available for Benefits:		
Beginning of Year	1,901,234	2,141,578
End of Year	\$ 1,827,334	\$ 1,901,234

See accompanying notes.

**PENSION PLAN OF THE PACIFIC NORTHWEST LABORATORIES,
BATTELLE MEMORIAL INSTITUTE
NOTES TO FINANCIAL STATEMENTS**

AS OF AND FOR THE YEARS ENDED JUNE 30, 2023 AND 2022

(Dollars in Thousands)

1. ORGANIZATION

The accompanying financial statements present the net assets of the Pension Plan of the Pacific Northwest Laboratories, Battelle Memorial Institute (“Plan”) and changes therein. The net assets of the Plan are commingled with the assets of The 2017 Employees’ Pension Plan of Battelle Memorial Institute within the Battelle Pension Trust (“Master Trust”).

The following brief description of the Plan is provided for general information purposes only. Participants should refer to the Plan document for more complete information.

General. The Plan is a defined benefit pension plan covering all U.S.-based salaried employees and eligible hourly employees of the Pacific Northwest Laboratories, Battelle Memorial Institute (“Battelle” or “Plan Sponsor”) and those group members, as defined by the Plan, who have adopted the Plan, except employees who are covered by collective bargaining agreements or by another pension plan funded by the employer. The Plan is subject to the provisions of the Employee Retirement Income Security Act of 1974, as amended (“ERISA”).

Pension Benefits. Participants with five or more years of vested service, as defined by the Plan, are entitled to annual pension benefits beginning at the normal retirement age of 65 based upon certain formulas using years of credited service up to a maximum of 40 years and the highest 60 months of compensation. The Plan permits early retirement at ages 55 to 64. Participants may elect to receive their vested benefit as a joint and survivor annuity payable monthly from the date of retirement. Participants may also elect to receive their vested benefit as a lump sum under certain conditions. The normal form of benefit is a single-life annuity payable monthly. If participants terminate before rendering five years of vesting service, they forfeit the right to receive their accumulated plan benefits. A participant is fully vested upon attainment of age 65 while in active service.

Death and Disability Benefits. If a vested participant dies before benefit payments begin, a death benefit equal to the participant’s accumulated benefits is paid to the participant’s spousal beneficiary based on certain payment options as defined by the Plan. Alternatively, the Plan provides spousal and non-spousal beneficiaries the option to elect a death benefit of 120 monthly payments commencing immediately, where each monthly payment is equal to the actuarial equivalent of the monthly payment the participant would have received at normal retirement age, or the lump-sum present value of such 120 monthly payments.

Active participants who become totally disabled, as defined by the Plan, are immediately fully vested in their pension benefit under the Plan and may elect to begin receiving an annual disability retirement benefit. Alternatively, active salaried participants who become totally disabled, as defined by the Plan, may elect to continue to accrue benefits with their salary rate remaining the same as at the time they became disabled until retirement, at which time disabled participants commence receipt of their pension benefits, which cannot occur while the participant is receiving benefits from a disability program sponsored by Battelle.

**PENSION PLAN OF THE PACIFIC NORTHWEST LABORATORIES,
BATTELLE MEMORIAL INSTITUTE
NOTES TO FINANCIAL STATEMENTS**

AS OF AND FOR THE YEARS ENDED JUNE 30, 2023 AND 2022

(Dollars in Thousands)

2. SUMMARY OF ACCOUNTING POLICIES

Basis of Accounting. The financial statements of the Plan have been prepared under the accrual basis of accounting.

Use of Estimates. The preparation of financial statements in conformity with accounting principles generally accepted in the United States (“U.S. GAAP”) requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities; disclosure of contingent assets, liabilities, and pension obligations at the date of the financial statements; and the reported amounts of changes in net assets and pension obligations during the reporting period. Actual results could differ from those estimates.

Risks and Uncertainties. The Master Trust invests in various investment securities. Investment securities are exposed to various risks, such as interest rate, market, liquidity, and credit risks. Due to the level of risk associated with certain 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 the amounts reported in the Statements of Net Assets Available for Benefits.

Plan contributions are made, and the actuarial present value of accumulated plan benefits is reported, based on certain assumptions pertaining to interest rates, salary increases, and employee demographics, all of which are subject to change.

Due to uncertainties inherent in the estimations and assumptions process, it is at least reasonably possible that changes in these estimates and assumptions in the near-term would be material to the financial statements.

Investment Valuation and Income Recognition. Investments are stated at fair value. Fair value of a financial instrument is the amount that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. See Note 4 for a description of valuation methods. Purchases and sales of securities are recorded on a trade-date basis. Interest income is recorded on the accrual basis. Dividends are recorded on the ex-dividend date.

The valuation of investments is prepared by Northern Trust (“Trustee”). The Trustee utilizes its external pricing service to estimate the fair value of certain investments held in the Plan. The Trustee uses multiple pricing vendors for the assets held in the Master Trust. In some cases, such as private equity funds, the valuation is provided to the Trustee by the applicable fund manager of the investment. The Plan’s investment managers review and validate the prices utilized by the Trustee to determine fair value. The Plan Sponsor receives audit reports of the Trustee’s operating controls and valuation processes. Management has established processes and procedures for establishment and valuation of alternative investments.

Payment of Benefits. Benefit payments to participants or beneficiaries are recorded upon distribution.

**PENSION PLAN OF THE PACIFIC NORTHWEST LABORATORIES,
BATTELLE MEMORIAL INSTITUTE
NOTES TO FINANCIAL STATEMENTS**

AS OF AND FOR THE YEARS ENDED JUNE 30, 2023 AND 2022

(Dollars in Thousands)

Administrative Expenses. Investment management and custodial fees; accounting fees; audit fees; and certain administrative, consulting, and legal fees are paid by the Plan and are expensed as incurred. Certain other administrative expenses not paid by the Plan are paid by the employer.

Subsequent Events. Plan management has performed an evaluation of subsequent events through April 15, 2024, which is the date the financial statements were available for issuance. There were no subsequent events noted.

3. THE MASTER TRUST

At June 30, 2023 and 2022, the Plan had an approximate 70.2% and 68.4% interest, respectively, in the net assets available for benefits of the Master Trust. Net assets, interest, dividends, realized gains (losses), unrealized gains (losses), and certain administrative expenses relating to the Master Trust are allocated to the individual plans via unitized accounting with the Trustee. This unitization is based on the weighted market value of the Plan's ownership in the Master Trust assets at the close of the previous month.

**PENSION PLAN OF THE PACIFIC NORTHWEST LABORATORIES,
BATTELLE MEMORIAL INSTITUTE
NOTES TO FINANCIAL STATEMENTS**

AS OF AND FOR THE YEARS ENDED JUNE 30, 2023 AND 2022

(Dollars in Thousands)

The net assets of the Master Trust as of June 30, 2023 and 2022, are as follows (in thousands):

	2023		2022	
	Plan's Interest in Master Trust Balances		Plan's Interest in Master Trust Balances	
U.S. Government and				
U.S. Government Agency Bonds	\$ 813,226	\$ 570,480	\$ 739,471	\$ 506,059
Common Stocks	254,186	178,312	297,972	203,918
Private Equity Funds	729,383	511,664	827,637	566,395
Commingled Funds	294,865	206,849	344,919	236,046
Corporate Bonds	244,183	171,295	-	-
Asset-Backed Securities	7,019	4,924	-	-
Mutual Fund	44,767	31,404	42,358	28,988
Real Estate	120,095	84,247	131,482	89,980
Cash and Cash Equivalents	69,895	49,032	361,129	247,140
Total Investments at Fair Value	2,577,619	1,808,207	2,744,968	1,878,526
Plus:				
Accrued interest and dividends	8,256	5,790	5,081	3,477
Less:				
Accrued expenses	(1,398)	(981)	(993)	(680)
Amounts due for securities purchased	(8,100)	(5,682)	(1,036)	(709)
Total	\$ 2,576,377	\$ 1,807,334	\$ 2,748,020	\$ 1,880,614

Investment income/(loss) for the Master Trust for the years ended June 30, 2023 and 2022, is as follows (in thousands):

	2023	2022
Net depreciation in fair value of investments	\$ (46,998)	\$ (324,928)
Interest	7,615	2,250
Dividends	33,891	33,350
Total Investment Loss	\$ (5,492)	\$ (289,328)

**PENSION PLAN OF THE PACIFIC NORTHWEST LABORATORIES,
BATTELLE MEMORIAL INSTITUTE
NOTES TO FINANCIAL STATEMENTS**

AS OF AND FOR THE YEARS ENDED JUNE 30, 2023 AND 2022

(Dollars in Thousands)

4. FAIR VALUE MEASUREMENTS

The framework for measuring fair value provides a fair value hierarchy that prioritizes the inputs to valuation techniques used to measure fair value. The hierarchy gives the highest priority to unadjusted quoted prices in active markets for identical assets or liabilities (Level 1) and the lowest priority to unobservable inputs (Level 3). Valuation techniques maximize the use of relevant observable inputs and minimize the use of unobservable inputs. The three levels of the fair value hierarchy under Topic 820 are described as follows:

Level 1: Inputs to the valuation methodology are quoted prices (unadjusted) in active markets for identical assets or liabilities that the Plan can access at the measurement date.

Level 2: Inputs other than quoted prices included within Level 1 that are observable for the asset or liability, either directly or indirectly, such as:

- * Quoted prices for similar assets or liabilities in active markets
- * Quoted prices for identical or similar assets or liabilities in inactive markets
- * Inputs other than quoted prices that are observable for the asset or liability
- * Inputs that are derived principally from or corroborated by observable market data by correlation or other means.

If the asset or liability has a specified (contractual) term, the Level 2 input must be observable for substantially the full term of the asset or liability.

Level 3: Inputs that are unobservable inputs for the asset or liability.

The Plan's investment in the Master Trust is presented at fair value, which has been determined based on the fair value of the underlying investments of the Master Trust. Consideration was given to how third-party pricing was performed.

The following is a description of the valuation methodologies used by the Plan to calculate the fair value of Master Trust investments. There have been no changes in the methodologies used at June 30, 2023 and 2022:

Cash includes trust deposit accounts as well as local and foreign currencies for which fair value measurements are all based on quoted prices for similar assets or liabilities. Cash equivalents include derivative (futures) contracts recorded at fair value as well as a short-term investment fund, which is valued at net asset value per share as determined by the issuer.

Common stocks and the mutual fund are valued at the closing price reported in the active market in which the individual security is traded.

**PENSION PLAN OF THE PACIFIC NORTHWEST LABORATORIES,
BATTELLE MEMORIAL INSTITUTE
NOTES TO FINANCIAL STATEMENTS**

AS OF AND FOR THE YEARS ENDED JUNE 30, 2023 AND 2022

(Dollars in Thousands)

U.S. Government and U.S. Government Agency (“Government”) and corporate bonds are valued based on yields currently available on comparable securities of issuers with similar credit ratings. When quoted prices are not available, the bonds are valued under a discounted cash flow approach that maximizes observable inputs, such as current yields of similar instruments.

Private real estate investments are valued at estimated fair value based on net asset value as reported by the fund managers. These funds seek growth and income through investment in commercial, residential, and industrial real estate. Funds are subject to various redemption restrictions and advance notice requirements. In addition, circumstances may exist in which the otherwise redeemable investment may be subject to limitations, including availability of cash arising from net investment income and the sale of investments in the ordinary course of business. Certain private real estate investments are stated at fair value using net asset value (“NAV”) as a practical expedient.

Certain commingled funds include a collective trust investment which is valued at estimated fair value based on net asset value as reported by the fund manager. The collective trust investment invests primarily in readily marketable international securities with the objective of long-term growth. The commingled funds are stated at fair value which is measured using NAV as a practical expedient.

Certain private equity funds are measured at fair value using NAV as a practical expedient, as reported by the fund manager. The NAV is based on the cumulative capital account balances reported by the general partners. In some cases, this might be based on limited partnerships’ audited financial statements.

The asset-backed securities are primarily collateralized by mortgage and other debt obligations. They are valued using some observable inputs such as quoted market prices for similar securities and unobservable inputs such as collateral characteristics, deal-specific payment and loss allocations, and prepayment speed. Given the combination of observable and unobservable inputs, they are classified in Level 2 of the fair value hierarchy.

The allocation of the gains, losses, and expenses to the partners are based on the ownership percentage as described in the partnership agreements. These funds seek growth and income through investments in various private market investments including, but not limited to, buyout, mezzanine debt, and venture capital. For private equity funds in the hierarchy as of June 30, 2023 and 2022, other than those disclosed in the NAV table below, substantially all redemptions are permanently restricted until the termination of the partnership or by written consent of the general partner.

The estimated time period for liquidation of these private equity funds varies from 1 to 12 years, but is subject to variability.

For private equity funds in the NAV table below which have no specific information detailed for Redemption Frequency or Redemption Notice Period, these funds generally have a stated life in the investment agreement, providing no short-term redemption liquidity. Distributions are received through the liquidation of the underlying assets of the funds. The intention is to hold these

**PENSION PLAN OF THE PACIFIC NORTHWEST LABORATORIES,
BATTELLE MEMORIAL INSTITUTE
NOTES TO FINANCIAL STATEMENTS**

AS OF AND FOR THE YEARS ENDED JUNE 30, 2023 AND 2022

(Dollars in Thousands)

investments through liquidation. These portfolios will be fully liquidated prior to the termination of the stated life. The following tables set forth by level, within the fair value hierarchy, the Master Trust's assets at fair value as of June 30, 2023 and 2022 (in thousands). Classification within the fair value hierarchy table is based on the lowest level of any input that is significant to the fair value measurement:

	Assets at Fair Value as of June 30, 2023			
	Level 1	Level 2	Level 3	Total
Cash and cash equivalents	\$ 2,471	\$ 67,424	\$ -	\$ 69,895
Government bonds	-	813,226	-	813,226
Corporate bonds	-	244,183	-	244,183
Asset backed securities	-	7,019	-	7,019
Common stocks	254,182	4	-	254,186
Mutual fund	44,767	-	-	44,767
Private equity funds	-	112,420	19,755	132,175
Real estate	-	-	4,250	4,250
Total Assets in the Fair Value Hierarchy	<u>301,420</u>	<u>1,244,276</u>	<u>24,005</u>	1,569,701
Investments Measured at Net Asset Value*				<u>1,007,918</u>
Investments at Fair Value	<u>\$ 301,420</u>	<u>\$ 1,244,276</u>	<u>\$ 24,005</u>	<u>\$ 2,577,619</u>

For the year ended June 30, 2023, the Plan had purchases of \$20,160 and sales of \$653 of assets using significant unobservable inputs (Level 3). Based on updated information received from the funds, there were \$154,531 of assets transferred out of Level 3 and into investments measured at net asset value.

**PENSION PLAN OF THE PACIFIC NORTHWEST LABORATORIES,
BATTELLE MEMORIAL INSTITUTE
NOTES TO FINANCIAL STATEMENTS**

AS OF AND FOR THE YEARS ENDED JUNE 30, 2023 AND 2022

(Dollars in Thousands)

	Assets at Fair Value as of June 30, 2022			
	Level 1	Level 2	Level 3	Total
Cash and cash equivalents	\$ 309,842	\$ 66,587	\$ -	\$ 376,429
Government bonds	-	739,472	-	739,472
Common stocks	297,959	12	-	297,971
Mutual fund	42,358	-	-	42,358
Private equity funds	-	-	157,035	157,035
Real estate	-	-	3,549	3,549
Total Assets in the Fair Value Hierarchy	<u>650,159</u>	<u>806,071</u>	<u>160,584</u>	1,616,814
Investments Measured at Net Asset Value*				<u>1,128,154</u>
Investments at Fair Value	<u>\$ 650,159</u>	<u>\$ 806,071</u>	<u>\$ 160,584</u>	<u>\$ 2,744,968</u>

For the year ended June 30, 2022, the Plan had purchases of \$167,835 and sales of \$16,002 of assets using significant unobservable inputs (Level 3). Based on updated information received from the funds, there were \$2,631 of assets transferred out of Level 3 and into investments measured at net asset value.

**Investments measured at fair value using net asset value per share (or its equivalent) as a practical expedient have not been classified in the fair value hierarchy. The value amounts presented in this table for such investments are intended to permit reconciliation of the fair value hierarchy to the total investments of the Master Trust line item presented in Note 3.*

**PENSION PLAN OF THE PACIFIC NORTHWEST LABORATORIES,
BATTELLE MEMORIAL INSTITUTE
NOTES TO FINANCIAL STATEMENTS**

AS OF AND FOR THE YEARS ENDED JUNE 30, 2023 AND 2022

(Dollars in Thousands)

Investments Measured Using the NAV per Share Practical Expedient

The following table summarizes investments for which fair value is measured using the NAV per share as a practical expedient as of June 30, 2023 and 2022 (in thousands):

			Redemption Frequency (if Currently Eligible)	Redemption Notice Period
<u>June 30, 2023</u>	<u>Fair Value</u>	<u>Unfunded Commitments</u>		
Various Private Equity Funds	85,516	\$22,716,305	-	-
Various Real Estate Funds	24,107	\$11,708,692	-	-
Various Commingled Funds	132,635	\$ -	Daily	N/A
Various Commingled Funds	15,451		Monthly	90 days
Various Private Equity Funds	46,553	\$ -	Daily	N/A
Various Private Equity Funds	9,890	\$ -	Daily	90 days
Various Private Equity Funds	47,630	\$ -	Monthly	30 days
Various Private Equity Funds	15,186	\$ -	Monthly	N/A
Various Private Equity Funds	13,228	\$ -	Quarterly	45 days
Various Private Equity Funds	71,641	\$ -	Quarterly	60 days
Various Private Equity Funds	11,403	\$ 2,158,848	Quarterly	90 days
Various Private Equity Funds	10,558	\$ -	Quarterly	N/A
Various Private Equity Funds	13,610	\$ -	Semi-Annual	30 days
Various Real Estate Funds	10,397	\$ -	Daily	90 days
Various Real Estate Funds	16,224	\$ -	Quarterly	60 days
Other investments	<u>483,889</u>	\$ -	-	-
Total Investments Measured at Net Asset Value	<u><u>1,007,918</u></u>			

**PENSION PLAN OF THE PACIFIC NORTHWEST LABORATORIES,
BATTELLE MEMORIAL INSTITUTE
NOTES TO FINANCIAL STATEMENTS**

AS OF AND FOR THE YEARS ENDED JUNE 30, 2023 AND 2022

(Dollars in Thousands)

June 30, 2022	Fair Value	Unfunded Commitments	Redemption Frequency (if Currently Eligible)	Redemption Notice Period
Various Private Equity Funds	97,408	\$ 25,707	-	-
Various Real Estate	25,954	\$ 15,035	-	-
Various Commingled Funds	206,885	\$ -	Daily	N/A
Various Commingled Funds	16,498	\$ -	Monthly	N/A
Various Private Equity Funds	52,743	\$ -	Daily	N/A
Various Private Equity Funds	13,163	\$ -	Daily	90 days
Various Private Equity Funds	45,970	\$ -	Monthly	30 days
Various Private Equity Funds	32,148	\$ -	Monthly	N/A
Various Private Equity Funds	28,222	\$ -	Quarterly	45 days
Various Private Equity Funds	102,486	\$ -	Quarterly	60 days
Various Private Equity Funds	5,993	\$ -	Quarterly	90 days
Various Private Equity Funds	8,059	\$ -	Quarterly	N/A
Various Private Equity Funds	15,300	\$ -	Semi-Annual	30 days
Various Real Estate	11,697	\$ -	Daily	90 days
Various Real Estate	17,971	\$ -	Quarterly	60 days
Other investments	<u>447,657</u>	**	**	**
Total Investments Measured at Net Asset Value	<u>\$ 1,128,154</u>			

*** The other investments have no unfunded commitments and redemption frequencies and notice periods vary.*

5. ACTUARIAL PRESENT VALUE OF ACCUMULATED PLAN BENEFITS

Accumulated plan benefits are those future periodic payments that are attributable under the Plan's provisions to the service participants have rendered as of the valuation date. Accumulated plan benefits include benefits expected to be paid to (a) retired or terminated participants or their beneficiaries, (b) beneficiaries of participants who have died, and (c) present participants or their beneficiaries.

The actuarial present value of accumulated plan benefits is determined by an independent actuary, and is that amount that results from applying actuarial assumptions to adjust the accumulated plan benefits to reflect the time value of money (through discounts for interest) and the probability of payment (by means of decrements, such as for death, disability, withdrawal, or retirement) between the valuation date and the expected date of payment.

**PENSION PLAN OF THE PACIFIC NORTHWEST LABORATORIES,
BATTELLE MEMORIAL INSTITUTE
NOTES TO FINANCIAL STATEMENTS**

AS OF AND FOR THE YEARS ENDED JUNE 30, 2023 AND 2022

(Dollars in Thousands)

The actuarial present value of accumulated plan benefits as of June 30, 2023 and 2022 is as follows (in thousands):

	<u>2023</u>	<u>2022</u>
Vested Benefits:		
Participants currently receiving payments	\$ 917,639	\$ 916,884
Other participants	<u>605,083</u>	<u>649,097</u>
Total vested benefits	1,522,722	1,565,981
Nonvested benefits	<u>18,410</u>	<u>16,780</u>
Total Actuarial Present Value of Accumulated Plan Benefits	<u><u>\$ 1,541,132</u></u>	<u><u>\$ 1,582,761</u></u>

The change in actuarial present value of accumulated plan benefits during the years ended June 30, 2023 and 2022, resulted from the following (in thousands):

	<u>2023</u>	<u>2022</u>
Actuarial Present Value of Accumulated Plan Benefits		
at Beginning of Fiscal Year	\$ 1,582,761	\$ 1,576,128
Changes During the Plan Year Attributable to:		
Net actuarial loss	47,405	51,157
Increase for interest due to the decrease		
in the discount period	91,920	87,823
Change in actuarial assumptions	(87,247)	(42,317)
Benefits paid (including lump sum amounts)	<u>(93,707)</u>	<u>(90,030)</u>
Net increase (decrease)	<u>(41,629)</u>	<u>6,633</u>
Actuarial Present Value of Accumulated Plan Benefits		
at End of Fiscal Year	<u><u>\$ 1,541,132</u></u>	<u><u>\$ 1,582,761</u></u>

The significant actuarial assumptions used in the valuations as of June 30, 2023 and 2022, were as follows:

- Mortality: Disabled Mortality: Pri-2012 generational combined annuitant and non-annuitant disabled mortality tables projected using Scale MP-2021 (2023) and (2022). Healthy Mortality: Pri-2012 generational white collar separate annuitant and non-annuitant healthy mortality tables projected using Scale MP-2021 (2023) and (2022).
- Assumed retirement rates are stratified by various age (and/or service) ranges, with 100% assumed to be retired by age 70.

**PENSION PLAN OF THE PACIFIC NORTHWEST LABORATORIES,
BATTELLE MEMORIAL INSTITUTE
NOTES TO FINANCIAL STATEMENTS**

AS OF AND FOR THE YEARS ENDED JUNE 30, 2023 AND 2022

(Dollars in Thousands)

-
- Assumed turnover rates are based on plan experience, by various age categories.
 - Interest rate of 6.50% for 2023 and 6.00% for 2022.

The foregoing actuarial assumptions are based on the presumption that the Plan will continue. Were the Plan to terminate, different actuarial assumptions and other factors might be applicable in determining the actuarial present value of accumulated plan benefits.

For the 2023 plan year, the change in actuarial assumptions pertains primarily to the following: a) an increase in the interest rate as indicated above which increases the assumed future rate of return on assets, b) a change in the implied forward rates used to calculate 417(e) lump sum factors which were updated based on 2023 PPA interest rates, c) a update to the mortality improvement scale used to calculate 417(e) lump sum factors, d) inflation rate increased from 2.5% to 2.2% per year.

For the 2022 plan year, the change in actuarial assumptions pertains primarily to the following: a) an increase in the interest rate as indicated above which increases the assumed future rate of return on assets, b) a change in the implied forward rates used to calculate 417(e) lump sum factors which were updated based on 2022 PPA interest rates, c) a change in the mortality projection scale used in 2022 increased the actuarial loss, and d) a update to the mortality improvement scale used to calculate 417(e) lump sum factors.

For both the 2023 and 2022 plan years, the increase in obligations due to net actuarial loss is the result of census changes from the previous year.

6. FUNDING POLICY

The employer makes contributions to the Plan, which are expected to be sufficient to provide the defined benefits of the Plan. Such contributions, as determined by actuaries, include provisions for normal costs as they accrue and unfunded prior service cost over a maximum of 30 years. Minimum funding requirements as set forth in ERISA have been met for the years ended June 30, 2023 and 2022.

7. PLAN TERMINATION

Although it has not expressed any intention to do so, Battelle has the right under the Plan to discontinue its contributions at any time and terminate the Plan subject to the provisions set forth in ERISA. Should the Plan be terminated at some future time, all participants become fully vested in benefits earned as of the termination date.

**PENSION PLAN OF THE PACIFIC NORTHWEST LABORATORIES,
BATTELLE MEMORIAL INSTITUTE
NOTES TO FINANCIAL STATEMENTS**

AS OF AND FOR THE YEARS ENDED JUNE 30, 2023 AND 2022

(Dollars in Thousands)

In the event the Plan terminates, the net assets of the Plan will be allocated, as prescribed by ERISA and its related regulations, generally to provide the following benefits in the order indicated:

- a. Benefits of any participant who retired three years or more prior to the date of termination or who could have retired as of such date (in the normal form of annuity) without in either case giving effect to any increase in benefits, which has been put into effect by a Plan amendment within five years prior to such date.
- b. Other vested benefits insured by the Pension Benefit Guaranty Corporation (PBGC) up to the applicable limitations discussed below.
- c. All other vested benefits that are not insured by the PBGC.
- d. All nonvested benefits.

Certain benefits under the Plan are insured by the PBGC if the Plan terminates. Generally, the PBGC guarantees most vested normal age retirement benefits, early retirement benefits, and certain disability and survivor's pensions. However, the PBGC does not guarantee all types of benefits under the Plan, and the amount of benefit protection is subject to certain limitations.

Whether all participants receive their benefits should the Plan terminate at some future time will depend on the sufficiency, at that time, of the Plan's net assets to provide for accumulated benefit obligations and may also depend on the financial condition of the Plan Sponsor and the level of benefits guaranteed by the PBGC.

8. EXEMPT PARTY-IN-INTEREST TRANSACTIONS

In 2023 and 2022, the shares of the short-term investment fund (a collective trust) held by the Master Trust were managed by The Northern Trust Company ("Northern Trust"). Northern Trust was the Trustee as defined by the Plan, and therefore, these transactions qualify as party-in-interest. In addition, certain Plan investments were held in companies that also serve as portfolio managers, and these transactions also qualify as party-in-interest. The Plan also paid certain administrative fees to the Trustee, actuary, third-party administrator, auditor, and others which qualify as party-in-interest transactions.

9. FEDERAL INCOME TAX STATUS

The Internal Revenue Service ("IRS") has determined and informed Battelle by a letter dated July 3, 2019, that the Plan, as amended, and related Master Trust are designed in accordance with applicable sections of the Internal Revenue Code ("IRC"). The Plan has been amended since receiving the determination letter; however, Plan management believes that the Plan is currently designed and operated in compliance with the applicable requirements of the IRC, and the Plan and related trust

**PENSION PLAN OF THE PACIFIC NORTHWEST LABORATORIES,
BATTELLE MEMORIAL INSTITUTE
NOTES TO FINANCIAL STATEMENTS**

AS OF AND FOR THE YEARS ENDED JUNE 30, 2023 AND 2022

(Dollars in Thousands)

continue to be tax exempt. Therefore, no provision for income taxes has been included in the Plan's financial statements.

U.S. GAAP requires Plan management to evaluate tax positions taken by the Plan and recognize a tax liability if the Plan has taken an uncertain position that more likely than not would not be sustained upon examination by the IRS. The Plan Administrator has analyzed the tax positions taken by the Plan and has concluded that as of June 30, 2023 and 2022, there are no uncertain positions taken or expected to be taken that would require recognition of a liability or disclosure in the financial statements. The Plan is subject to routine audits by taxing jurisdictions; however, there are currently no audits for any tax periods in progress.

10. DERIVATIVE FINANCIAL INSTRUMENTS

There are derivative contracts included with the cash equivalents of the assets of the Master Trust as of June 30, 2023 and 2022. These derivatives are futures that are recorded at fair value. These derivatives are used for the purpose of gaining market exposure.

Derivative Assets at Year-End	June 30, 2023		
	Notional Value	Last Days	Number of
		Mark	
	(In Thousands)	(In Thousands)	Contracts
Type of Exposure:			
Fut Sep 23 10 Yr T-Notes	\$ 138,424	\$ 173	1233
Fut Sep 23 Cbt Ul T-Bonds	2,043	14	15
Fut Sep 23 Cbt Ult Tnote	3,435	9	29
Fut Sep 23 Emini S&P 500	4,488	53	20
Fut Sep 23 Cme Eminirus2K	761	2	8
Fut Sep 23 Icus Msci Eaf	1,078	13	10
Fut Sep 23 Icus Msci Emg	449	3	9
Fut Sep 23 Immemini Mdcg	529	3	2
Fut Sep 23 U.S. T-Bonds	81,855	484	645
Fut Sep 23 Us 2Yr T-Note	813	-	4
	<u>\$ 233,875</u>	<u>\$ 754</u>	

During the year ended June 30, 2023, there was a net realized loss of (\$10,582) and a last day's mark of \$754.

**PENSION PLAN OF THE PACIFIC NORTHWEST LABORATORIES,
BATTELLE MEMORIAL INSTITUTE
NOTES TO FINANCIAL STATEMENTS**

AS OF AND FOR THE YEARS ENDED JUNE 30, 2023 AND 2022

(Dollars in Thousands)

Derivative Assets at Year-End	June 30, 2022		
	Notional Value	Last Days	Number of
		Mark	Contracts
	(In Thousands)	(In Thousands)	
Type of Exposure:			
Fut Sep 22 Cbt Ul T-Bonds	\$ 26,393	\$ 401	171
Fut Sep 22 Emini S&P 500	56,085	(470)	296
Fut Sep 22 CME Emini Rus 2	8,369	(66)	98
Fut Sep 22 Icus Msci Eaf	12,439	(62)	134
Fut Sep 22 Icus Msci Emg	5,565	(26)	111
Fut Sep 22 Immemini Mdcp	8,618	(84)	38
Fut Sep 22 Imm Cad	1,554	3	20
Fut Sep 22 U.S. T-Bonds	9,427	115	68
Fut Sep 22 Me S&P Can 60	1,594	(19)	9
	<u>\$ 130,044</u>	<u>\$ (208)</u>	

During the year ended June 30, 2022, there was a net realized gain of \$2,460 and a last day's mark of (\$208).

At the time the Plan enters into a futures contract, it is generally required to make a margin deposit with the custodian of a specified amount of liquid assets. Subsequent payments are made or received by the investment fund equal to the daily change in the contract value and are recorded as variation margin receivable or payable and offset in unrealized gains or losses. Futures are marked to market each day, with the change in value reflected in the unrealized gains and losses.

The use of futures contracts involves, to varying degrees, elements of market and counterparty risk, which may exceed the amounts recognized in the Statements of Net Assets Available for Benefits. Futures contracts present the following risks: imperfect correlation between the change in market value of a fund's securities and the price of futures contracts; the possible inability to close a futures contract when desired; losses due to unanticipated market movements, which potentially are unlimited; and the possible inability of the Plan to correctly predict the direction of securities prices, interest rates, currency exchange rates, and other economic factors. Futures markets are highly volatile, and the use of futures may increase the volatility of an investment's value. As a result of low margin deposits normally required in futures trading, a relatively small price movement in a futures contract may result in substantial losses to the Plan. Futures contracts may be illiquid, and exchanges may limit fluctuations in futures contract prices during a single day. All of the future contracts are traded on a U.S. exchange.

SCHEDULE OF ASSETS HELD FOR INVESTMENT PURPOSES AT END OF YEAR
Form 5500, Schedule H, Part IV, Line 4i

Pension Plan of the Pacific Northwest Laboratories, Battelle Memorial Institute

EIN: 31-4379427
Plan Number 005

June 30, 2023

(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	(In Thousands)	
			(d) Cost	(e) Current Value
*	Northern Trust Company	Plan Interest in Master Trust	\$ 1,833,335	\$ 1,807,334
	Total Investments		<u>\$ 1,833,335</u>	<u>\$ 1,807,334</u>

* Party-in-interest to the Plan.

Schedule SB, Part V — Summary of Plan Provisions**Summary of major plan provisions**

Effective date and plan year	Original plan: July 18, 1941 Restated plan: July 1, 2008 Plan year: July 1 through June 30
Status of the plan	The plan has ongoing benefit accruals and new employees are eligible to participate in the plan once they satisfy the participation requirements.
Significant events that occurred during the year	None

Definitions

• Covered employees	Any Employee who is employed by a Participating Employer and who is not classified as one or more of the following: (1) a member of the Board of Directors unless member is also an Employee; (2) an employee who is covered by a collective bargaining agreement unless such agreement provides for participation in the Plan; (3) an individual employed outside the United States by a foreign-based subsidiary or division of Employer; (4) an employee who is covered by any other qualified defined benefit pension plan funded by Employer; (5) an employee of any Battelle Affiliate that has not adopted this Plan for its employees; (6) a Leased Employee; (7) an independent contractor; (8) effective on and after February 13, 2003, an individual employed as a telephone interviewer; (9) interns and co-op students; and (10) Limited Term Employees.
• Participation	Participation commences on the date of employment for employees other than hourly employees. Hourly employees participate after completing 1,000 hours of service.
• Employee contributions	None.
• Credited service for vesting	A participant receives one year of Credited Service for Vesting for every plan year he is credited with at least 1,000 hours of service or a fraction of a year if credited with at least 500 hours of service.
• Credited service for benefit accrual	A participant receives one year of Credited Service for Benefit Accrual for every plan year he is credited with at least 2,080 hours, or a fraction of a year if credited with less than 2,080 hours. Note that hourly employees must complete a minimum of 1,000 hours of service to receive any credit.
• Monthly compensation	Monthly equivalent of compensation as if the employee worked full-time. Effective July 1, 2001, incentive compensation and overtime are counted as plan compensation. However, compensation is limited by IRC 401(a)(17) annually (indexed for future years).
• Final average earnings	The average of the highest 60 consecutive months of compensation.
• Accrued benefit	The normal retirement benefit based on Credited Service for Benefit Accrual and Final Average Compensation on the date of determination.

Schedule SB, Part V — Summary of Plan Provisions

Normal retirement	
• Eligibility	Attainment of age 65
• Benefit	<p>The larger of i. and ii.</p> <p>i. 1.2% of Final Average Compensation times Credited Service for Benefit Accrual (maximum of 40 years)</p> <p>ii. The sum of a. plus b.</p> <p>a. For service after July 1, 2012 – 1.2% of Final Average Compensation times Credited Service for Benefit Accrual</p> <p>b. For service prior to July 1, 2012* –</p> <p>The larger of 1. and 2.</p> <p>1. 1.6% of Final Average Compensation multiplied by Credited Service for Benefit Accrual, and</p> <p>2. Accrued Retirement Benefit as of June 30, 1994, plus 1.6% of Final Average Compensation multiplied by Credited Service for Benefit Accrual after June 30, 1994.</p> <p>Credited Service for Benefit Accrual for (a) and (b) cannot exceed 40 years.</p> <p>*For any Member who has attained age 50 and completed at least 15 years of Credited Service for Vesting as of June 30, 2012, benefits under (b.1.) and (b.2.) use Final Average Compensation as of their date of termination. For any other Member not meeting these criteria, benefits under (b.1.) and (b.2.) use Final Average Compensation on June 30, 2012</p> <p>Benefits attributable to service prior to July 1, 2009 under (b) are increased by 9.76% to account for the change in normal form of payment from 10 years Certain and Life to Single Life Annuity.</p>
Early retirement	
• Eligibility	The later of attainment of age 55 and the completion of 10 years of Credited Service for Vesting.
• Benefit attributable to credited service for benefit accrual earned prior to July 1, 2009	The accrued benefit is reduced 1/2% for each month the early retirement date precedes age 60.
• Benefit attributable to credited service for benefit accrual earned after July 1, 2009	Normal retirement benefit, actuarially reduced based on the RP 2000 white collar mortality table, projected to 2025 using scale AA, and blended 60% male and 40% female and 7% interest compounded annually.
Late retirement	
• Eligibility	Actual retirement after age 65.
• Benefit	The benefit reflects Credited Service for Benefit Accrual and Monthly Compensation earned after age 65.
Deferred vested	
• Eligibility	100% after 5 years of Credited Service for Vesting; no vesting prior to completion of 5 years of Credited Services for Vesting. Participant is 100% vested on normal retirement date.
• Benefit	Accrued Retirement Benefit payable at age 65 or payable at or after age 55 and reduced for each month benefit commencement date precedes age 65.

Schedule SB, Part V — Summary of Plan Provisions

Disability	
• Eligibility	Only employees other than hourly employees are eligible for special disability benefits. Total and permanent disability is defined in the Plan.
• Benefit	A monthly benefit equal to the regular retirement benefit with Monthly Compensation and Credited Service for Benefit Accrual determined at retirement as if the participant were employed on the same basis as immediately before disablement. This benefit will be reduced for early retirement, if applicable.
Pre-retirement death	
• Eligibility	Eligible if employee has a vested benefit.
• Benefit	For death after vesting but prior to early retirement eligibility the benefit is equal to the vested Accrued Retirement Benefit payable at the earliest date the participant could have retired. The amount is reduced as for early retirement and is payable as a 100% joint and survivor annuity (benefits are payable for 120 months if there is no surviving spouse).
Form of benefits	
• Automatic form for unmarried participants	Single Life Annuity
• Automatic form for married participants	50% Joint & Survivor Annuity
• Optional forms	50%, 75%, or 100% joint and survivor annuity, life annuity with 5 or 10 years of payments certain to be made. Additional options include a guaranteed number of payments of any duration with or without a life annuity. Participants who terminate employment on or after July 1, 2015 with a present value of accrued benefits less than \$125,000 can elect to receive their benefit in the form of a lump sum.
• Optional form conversion factors	Optional forms of benefit, other than the lump sum, are determined using the RP 2000 white collar mortality table, projected to 2025 using Scale AA, and blended 60% male and 40% female and 7% interest compounded annually. Lump sums are determined using 417(e) interest and mortality.
Miscellaneous	
• Maximum compensation	Compensation for any 12-month period used to determine accrued benefits may not exceed the limits in IRC Section 401(a)(17) for the calendar year in which the 12-month period begins. This limit is indexed annually. For 2022, the limit is \$305,000.
• Maximum benefits	Annual benefits may not exceed the limits in IRC Section 415. This limit is indexed annually. For 2022, the limit is \$245,000.

Schedule SB, Part V — Summary of Plan Provisions**Summary of major plan provisions for HAMTC staff members**

The same terms in effect currently for PNNL Pension Plan employees shall be provided to the HAMTC staff members with the following exceptions guaranteed until June 30, 2026:

Definitions	
• Final average earnings	The average of the highest 60 consecutive months of compensation. For staff members with at least 10 years of pension vesting service as of July 1, 2016, the final average earnings calculation will apply to service worked in both Hanford and PNNL Pension Plans.
Normal retirement	
• Benefit	<p>Staff members with at least 10 years of Credited Service for Vesting on July 1, 2016:</p> <ul style="list-style-type: none"> 1.6% of Final Average Compensation multiplied by years of Credited Service for Benefit Accrual (maximum of 40 years) and on the basis of a 10 year certain annuity. <p>Staff members with less than 10 years of Credited Service for Vesting on July 1, 2016:</p> <ul style="list-style-type: none"> 1.2% of Final Average Compensation multiplied by years of Credited Service for Benefit Accrual (maximum of 40 years) and on the basis of a life annuity.
Early retirement	
• Eligibility	The later of attainment of age 55 and the completion of 3 years of Credited Service for Vesting unless eligible for immediate vesting ⁴ .
• Benefit attributable to credited service for benefit accrual earned prior to July 1, 2009	The accrued benefit is reduced 1/2% for each month the early retirement date precedes age 60.
• Benefit attributable to credited service for benefit accrual earned after July 1, 2009	Normal retirement benefit, actuarially reduced based on the RP 2000 white collar mortality table, projected to 2025 using scale AA, and blended 60% male and 40% female and 7% interest compounded annually.
Deferred vested	
• Eligibility	100% after 3 years of Credited Service for Vesting unless eligible for immediate vesting. Participant is 100% vested on normal retirement date.
Form of benefits	
• Optional forms	Annuity forms offered in the PNNL Plan and an unlimited lump sum payment. Staff members hired after September 1, 2015 can only elect a lump sum form of payment if the present value of accrued benefits is less than \$125,000.

⁴ Staff members already vested in the Hanford Pension Plan as of July 1, 2016 are immediately vested in the PNNL Pension Plan

Schedule SB, Part V — Summary of Plan Provisions**Benefits included or excluded**

Unless noted below, all benefits provided by the plan are included in this valuation.

- **Most recent plan amendments included:** Plan amendment adopted August 6, 2018 increased the pre-retirement death benefit to the beneficiary amount from a 100% joint and survivor annuity (updated from a 50% joint and survivor annuity).
- **Plan amendments excluded:** None.
- **Late retirement increases:**
 - *Active participants:* The plan provides benefit suspension notices to participants who work beyond normal retirement; therefore, late retirement actuarial increases only apply to participants who defer retirement beyond the Minimum Required Distribution date. This valuation does not currently include increases for current participants over age 70 as it was determined the effect of doing so would be minimal. This will be reevaluated annually.
 - *Deferred vested participants:* Current deferred vested participants over normal retirement age are valued including the late retirement actuarial increase.
- **Internal Revenue Code limitations:** The limitations of Internal Revenue Code Section 415(b) and 401(a)(17) have been incorporated into our calculations.
- **IRC Section 416 rules for top-heavy plans:** We did not test whether this plan is top-heavy (when the present value of benefits for key employees equals or exceeds 60% of the present value for all participants). However, we expect that the plan is not top-heavy due to the large number of rank-and-file participants; therefore, the funding target and target normal cost do not reflect any liability for top-heavy benefit accruals.

Plan provisions specific to funding**Additional benefits included or excluded**

- **IRC Section 436 benefit restrictions:**
 - *Unpredictable contingent event benefits:* This valuation excludes restricted contingent event benefits that occurred before the valuation date but includes contingent event benefits which are expected to occur on or after the valuation date regardless of anticipated funding-based limitations.
 - *Plan amendments:* See above.
 - *Prohibited payments:* The plan has no historical or assumed prohibited payments.
 - *Benefit accruals:* The plan's funding target does not reflect any limitation on benefit accruals. The target normal cost does not reflect any limitation on benefit accruals.
- **Unpredictable contingent event benefits:** The plan does not have any unpredictable contingent event benefits.

Schedule SB, Part V — Summary of Plan Provisions

Plan provision changes since prior valuation

Maximum compensation amounts and maximum benefit amounts under IRS rules were updated from 2021 to 2022.

SCHEDULE OF ASSETS HELD FOR INVESTMENT PURPOSES AT END OF YEAR
Form 5500, Schedule H, Part IV, Line 4i

Pension Plan of the Pacific Northwest Laboratories, Battelle Memorial Institute

EIN: 31-4379427
Plan Number 005

June 30, 2023

(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	(In Thousands)	
			(d) Cost	(e) Current Value
*	Northern Trust Company	Plan Interest in Master Trust	<u>\$ 1,833,335</u>	<u>\$ 1,807,334</u>
	Total Investments		<u>\$ 1,833,335</u>	<u>\$ 1,807,334</u>

* Party-in-interest to the Plan.

Schedule SB, line 26a — Reconciliation of Active Participant Data**Distribution of active participants as of July 1, 2022**

Attained age	Years of credited service										Total
	Under 1	1–4	5–9	10–14	15–19	20–24	25–29	30–34	35–39	40 & up	
Under 25	47	39									86
	76,625	82,231									
25–29	126	215	19								360
	85,424	88,939									
30–34	185	324	115	13							637
	95,000	100,751	108,933								
35–39	102	327	185	77	13	2					706
	106,629	109,960	121,905	123,454							
40–44	71	162	138	162	67	23	3				626
	113,297	118,980	128,576	140,121	142,513	131,760					
45–49	64	96	120	113	98	54	15	4			564
	120,463	121,284	125,014	142,701	152,473	153,610					
50–54	45	74	107	86	81	80	59	30	2		564
	114,583	137,504	135,241	136,578	156,241	161,473	151,164	140,067			
55–59	21	67	86	69	89	89	82	68	18	2	591
	155,702	150,384	125,662	133,804	152,885	150,557	161,338	159,292			
60–64	15	30	59	55	43	57	39	51	25	5	379
		160,053	132,840	143,746	151,302	140,045	167,868	168,882	155,553		
65–69	5	14	18	18	19	15	12	16	9	6	132
70 & up	2	3	5	1	2	1	1			1	16
Total	683	1,351	852	594	412	321	211	169	54	14	4,661
											125,844

In each cell, the top number is the count of active participants for each age/service combination and the bottom number is average pay for 2021 limited to \$290,000. Average pay is not shown for cells with fewer than 20 participants.

Schedule SB, Part V — Statement of Actuarial Assumptions/Methods**Actuarial assumptions**

Discount rate sponsor elections			
• Segment rates or full yield curve	Segment		
• Look-back months	4		
	Stabilized	Nonstabilized	PBGC ¹
• First 5 years	4.75%	0.87%	0.87%
• Next 15 years	5.18%	2.64%	2.64%
• Over 20 years	5.92%	3.28%	3.28%
Rationale: The segment rates above are mandated by PPA based on the look-back month selected by the Plan Sponsor. Stabilized segment rates are in accordance with the changes made by MAP-21, HATFA, BBA 2015, ARPA and IIJA			
Mortality sponsor elections			
• Healthy participants	Section 430(h)(3) prescribed separate generational annuitant and nonannuitant mortality tables. These tables are based on the RP-2014 mortality tables with improvements beyond 2006 removed with generational mortality improvements based on the IRS methodology and projection scale MP-2020.		
• Pre-1995 disabilities	Revenue Ruling 96-7 table for participants who became disabled before 1995		
• Post-1994 disabilities	Revenue Ruling 96-7 table for participants who became disabled after 1994 and are eligible for Social Security disability benefits		
Rationale: The mortality tables above are mandated by PPA based on Plan Sponsor elections.			
417(e) lump sums	Lump Sums payable to all participants with a present value of accrued benefits less than \$125,000. Liabilities are determined based on the underlying annuity used by the plan to determine the lump sum amount, rather than valuing the lump sum payment. This annuity is valued based on funding interest rates rather than 417(e) rates and unisex generational mortality		
Rationale: Threshold lump sum amounts are estimated using ASC 960 lump sum assumptions described in the section below. Lump sum mortality is mandated by PPA. Valuing lump sums under the annuity substitution rules is required by PPA.			
Non-417(e) lump sums			
• Mortality table	Not applicable		
• Interest rate	Not applicable		
Other economic assumptions			
• Salary increases	For years 2022 and 2023, salary rates begin with 9.20% at age 20 and reduce until age 70 where the rate is then held constant at 5.20%. For years after 2023, salary rates begin with 7.20% at age 20 and reduce		

¹ The PBGC Rates are based on the alternative method which was elected by the Plan Sponsor beginning June 1, 2020.

Schedule SB, Part V — Statement of Actuarial Assumptions/Methods

until age 70 where the rate is then held constant at 3.20%. See table of sample rates.

Rationale: This assumption is based on an experience study covering the period July 1, 2013 to June 30, 2018 and is adjusted to reflect Battelle Memorial Institute's future expected salary increases.

- Inflation 2.50% per year.

Rationale: This assumption is based on a long-term average of the inflation assumption periodically published by Mercer Investment Consulting in their Capital Markets Outlook.

- Expected investment return 6.00% for 2022, 5.75% for 2021, 5.50% for 2020, 6.75% for 2019 and 7.25% per year for 2016 through 2018.

Rationale: Mercer's best estimate return utilizes the weighted average approach rounded to the nearest 25 basis points, weighting 60% with forward looking asset return assumptions and 40% with the building block method recognizing current yields, which defines the return as the sum of three components: inflation, risk-free return, and risk premium, all offset by an expense load. Assumptions for these components are derived from a recent Mercer Investment Consulting Capital Market Outlook. Risk premiums are applied appropriately to reflect Battelle Memorial Institute's actual asset allocation.

- Expenses For the 2022/2023 plan year, this amount is \$16,185,000 and has been added to 2022/2023 normal cost.

Rationale: The prior plan year's administrative and investment expenses, excluding the prior year's PBGC premiums paid, adjusted for expected events (if any) and anticipated current year PBGC premiums, rounded up to the next \$5,000.

Demographic assumptions

- Withdrawal Rates are based on age (see sample below).

Rationale: This assumption is based on an experience study covering the period July 1, 2013 to June 30, 2018. See table of sample rates. The plan sponsor believes that this period is representative of anticipated future experience.

- Disability incidence Rates are based on age (see sample below).

Rationale: This assumption is based on an experience study covering the period July 1, 2009 to June 30, 2014. See table of sample rates. The plan sponsor believes that this period is representative of anticipated future experience.

Schedule SB, Part V — Statement of Actuarial Assumptions/Methods

• Retirement age

Attained age	Percentage
Under 55 and 55	7.20%
56-58	5.20%
59	9.40%
60-61	12.80%
62-63	19.50%
64	25.00%
65-66	36.00%
67-69	23.00%
70 and above	100.00%

Rationale: This assumption is based on an experience study covering the period July 1, 2013 to June 30, 2018. The plan sponsor believes that this period is representative of anticipated future experience.

• Benefit commencement age for

– Future vested deferred	62
– Current vested deferred	63 if terminated before July 1, 2009 62 if terminated on or after July 1, 2009

Rationale: This assumption is based on an experience study covering the period July 1, 2013 to June 30, 2018. The plan sponsor believes that this period is representative of anticipated future experience.

Spouse assumptions	Male participants	Female participants
– Percentage married	90%	75%
– Spouse age difference	2 years younger	1 year older

Rationale: This assumption is based on an experience study covering the period July 1, 2013 to June 30, 2018. The plan sponsor believes that this period is representative of anticipated future experience.

• Accrual of future credited service for benefit accrual (for Part-Time employees)	Hourly employees are assumed to accrue 0.25 of a year during each future plan year. Non-hourly employees are assumed to accrue 1 year times their percent full-time for each future year of employment.
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Rationale: This assumption is based on an experience study covering the period July 1, 2009 to June 30, 2014. The plan sponsor believes that this period is representative of anticipated future experience.

Schedule SB, Part V — Statement of Actuarial Assumptions/Methods

Form of payment	Single Life	10-year Certain & Life	50% J&S	100% J&S	100% J&S with 10-years Certain	100% J&S with 20-years Certain	Lump Sum
Lump Sum Eligible ²							
• Active retirements	9%	2%	7%	12%	5%	0%	65%
• Future vested deferred	9%	2%	7%	12%	5%	0%	65%
• Current vested deferred ³	40%	10%	10%	30%	0%	10%	0%
• Deferred beneficiaries	0%	0%	35%	0%	0%	0%	65%
• Current and future disabilities	35%	0%	0%	0%	0%	0%	65%
• Future deaths	0%	35% (if single)	35% (if married)	0%	0%	0%	65%
Not Lump Sum Eligible							
• Active retirements	25%	5%	20%	35%	15%	0%	N/A
• Future vested deferred	25%	5%	20%	35%	15%	0%	N/A
• Current vested deferred	40%	10%	10%	30%	0%	10%	N/A
• Deferred beneficiaries	0%	0%	100%	0%	0%	0%	N/A
• Current and future disabilities	100%	0%	0%	0%	0%	0%	N/A
• Future deaths	0%	100% (if single)	100% (if married)	0%	0%	0%	N/A
<p><u>Rationale:</u> The assumption for annuity elections is based on an experience study covering the period July 1, 2013 to June 30, 2018. The lump sum election assumption was reviewed using data from July 1, 2013 to June 30, 2018. The plan sponsor believes that the period reviewed for annuity and lump sum elections is representative of anticipated future experience.</p>							
Unpredictable contingent event assumptions	Not applicable						

² Participants who terminate employment on or after July 1, 2015 with a present value of accrued benefits less than \$125,000 can elect to receive their benefit in the form of a lump sum.

³ Current vested deferred participants other than deferred beneficiaries and deferred disabled participants are assumed not to elect a lump sum form of payment.

Schedule SB, Part V — Statement of Actuarial Assumptions/Methods**Table of sample rates**

Attained age	Percentage			
	Withdrawal – Unisex	Disability incidence	Salary increases 2022 & 2023	Salary increases 2024+
20	10.40%	0.0000%	9.20%	7.20%
25	7.20%	0.0367%	9.20%	7.20%
30	4.88%	0.0367%	8.70%	6.70%
35	5.66%	0.1310%	8.00%	6.00%
40	4.49%	0.1310%	7.20%	5.20%
45	3.97%	0.2825%	6.50%	4.50%
50	2.80%	0.2825%	5.70%	3.70%
55	3.74%	0.3376%	5.70%	3.70%
60	7.48%	0.3376%	5.20%	3.20%
65	25.00%	0.2208%	5.20%	3.20%
70	N/A	N/A	5.20%	3.20%

Schedule SB, Part V — Statement of Actuarial Assumptions/Methods**Actuarial methods****Asset methods**

The asset valuation method is an average of the adjusted market value for each year during the last two years preceding the valuation date. The adjusted market value is the market value at each determination date adjusted to the valuation date based on actual cash flows and expected interest at the lesser of the expected rate of return and the third segment rate. This amount is adjusted to be no greater than 110% and no less than 90% of the fair market value, as defined in IRC Section 430.

A characteristic of this asset method is that, over time, it is slightly more likely to produce an actuarial value of assets that is less than the market value of assets than an actuarial value that is greater than the market value.

Participant methods

Participants or former participants are included or excluded from the valuation as described below:

- **Participants included:** The plan sponsor provides us with data on all employees as of the valuation date, but only those employees who have completed the plan's eligibility requirements are included in the valuation of liabilities.
- **Participants excluded:** No actuarial liability is included for nonvested participants who terminated prior to the valuation date. For this purpose, participants with a break in service on the valuation date are treated as terminated participants.
- **Insurance contracts:** The plan does not have any insurance contracts.

Minimum funding methods

The funding target for minimum funding calculations is computed using the traditional unit credit method of funding. The objective under this method is to fund each participant's benefits under the plan as they accrue. Thus, the total pension to which each participant is expected to become entitled at retirement is broken down into units, each associated with a year of past or future credited service.

A detailed description of the calculation follows:

- The plan's valuation date is the beginning of the plan year.
- An individual's **funding target** is the present value of future benefits based on credited service and average pay as of the beginning of the plan year, and an individual's **target normal cost** is the present value of the benefit expected to accrue in the plan year. If multiple decrements are used, the funding target and the target normal cost for an individual is the sum of the component funding targets and target normal costs associated with the various anticipated separation dates.
- This plan provides disability/death benefits that are only partially based on a participant's accrued benefit or years of service. This benefit is allocated to funding target based on the accrued benefit on the valuation date plus a portion of the excess of the benefit over the accrued benefit multiplied by the ratio of the participant's service at the beginning of the plan year to their service at each decrement age. This benefit is allocated to target normal cost based on the proportionate benefit attributable to the increase in the participant's service and compensation during the plan year.
- The plan's **target normal cost** is the sum of the individual target normal costs, and the plan's **funding target** is the sum of the individual funding targets for all participants under the plan.

Schedule SB, Part V — Statement of Actuarial Assumptions/Methods**Maximum suggested contribution funding methods**

Calculations of maximum suggested contributions include the excess of the funding target computed using the projected unit credit method over the minimum funding target. The objective of the projected unit credit method is to fund each participant's benefits under the plan as they accrue, taking into consideration expected future compensation increases. Thus, the total pension to which each participant is expected to become entitled at retirement is broken down into units, each associated with a year of past or future credited service.

A detailed description of the calculation follows:

- An individual's **projected funding target** is the present value of benefits based on credited service as of the beginning of the plan year and projected compensation that would be used in the calculation of the benefit on each expected separation date. If multiple decrements are used, the projected funding target for an individual is the sum of the component projected funding targets associated with the various anticipated separation dates. The plan's projected funding target is the sum of the projected funding targets for all participants under the plan. The excess of the plan's projected funding target over the plan's funding target is included in the "cushion amount."
- The plan's **projected funding target** is the sum of the projected funding targets for all participants under the plan. The excess of the plan's projected funding target over the plan's funding target is included in the "cushion amount."

Schedule SB, line 24 — Change in Actuarial Assumptions

The following changes were made for the plan year beginning July 1, 2022.

- The expected investment return was updated from 5.75% to 6.00%.
- The expense component of normal cost was changed from \$6,260,000 to \$16,185,000 to reflect our expectations for the current plan year.
- Salary Increase rates were adjusted to reflect Battelle Memorial Institute's future expected salary increases.
- Inflation was increased from 2.20% per year to 2.50%.

Schedule SB, line 22 — Description of Weighted Average Retirement Age

Each employee is assumed to retire in accordance with the table of retirement rates. The proportion of employees expected to retire at each potential retirement age is shown below. The average retirement age is 62.

(A) Retirement age	(B) Retirement percent	(C) Lx	(D) Number of employees expected to retire (B) x (C)	(E) (A) x (D)
55	7.20%	100,000	7,200	396,000
56	5.20%	92,800	4,826	270,234
57	5.20%	87,974	4,575	260,756
58	5.20%	83,400	4,337	251,534
59	9.40%	79,063	7,432	438,483
60	12.80%	71,631	9,169	550,126
61	12.80%	62,462	7,995	487,705
62	19.50%	54,467	10,621	658,507
63	19.50%	43,846	8,550	538,648
64	25.00%	35,296	8,824	564,737
65	36.00%	26,472	9,530	619,445
66	36.00%	16,942	6,099	402,544
67	23.00%	10,843	2,494	167,090
68	23.00%	8,349	1,920	130,579
69	23.00%	6,429	1,479	102,025
70	100.00%	4,950	4,950	346,511
Total			100,000	6,184,925
Average				61.85

The weighted average retirement age is the total for column E divided by the total for column D, rounded to the nearest integral age. It should be noted that while only integral values are shown in the table, the full content of each cell, including decimal portions, is used in the calculations.

Schedule SB, line 26b — Schedule of Projection of Expected Benefit Payments

Plan Year	Active Participants	Terminated Vested Participants	Retired Participants and Beneficiaries Receiving Payments	Total
2022	5,258,174	3,854,370	84,551,016	93,663,560
2023	10,088,293	4,854,880	83,195,929	98,139,102
2024	14,726,757	5,795,092	81,751,929	102,273,778
2025	18,718,021	6,786,701	80,201,587	105,706,309
2026	22,404,631	8,113,150	78,529,520	109,047,301
2027	25,629,710	8,711,914	76,806,585	111,148,208
2028	28,539,275	9,536,994	74,925,934	113,002,203
2029	31,113,337	10,140,094	72,980,837	114,234,268
2030	33,525,452	10,562,182	70,904,125	114,991,759
2031	35,682,450	11,014,115	68,672,668	115,369,233
2032	37,450,447	11,392,673	66,259,676	115,102,795
2033	39,016,710	11,779,658	63,731,397	114,527,764
2034	40,370,376	11,973,625	61,091,593	113,435,594
2035	41,555,272	12,097,343	58,375,510	112,028,124
2036	42,572,425	12,190,860	55,598,267	110,361,552
2037	43,418,506	12,224,938	52,692,965	108,336,409
2038	44,174,070	12,300,963	49,711,251	106,186,285
2039	44,754,340	12,335,229	46,622,528	103,712,097
2040	45,155,152	12,374,530	43,498,130	101,027,812
2041	45,479,028	12,422,205	40,313,950	98,215,183
2042	45,617,205	12,250,853	37,160,322	95,028,381
2043	45,512,262	12,151,482	34,078,209	91,741,953
2044	45,216,768	12,088,480	31,032,880	88,338,127
2045	44,790,173	11,856,410	28,049,107	84,695,690
2046	44,182,801	11,643,775	25,151,902	80,978,478
2047	43,369,586	11,354,800	22,361,240	77,085,627
2048	42,391,425	11,020,650	19,708,636	73,120,711
2049	41,255,402	10,630,858	17,211,114	69,097,374
2050	39,973,865	10,220,851	14,886,399	65,081,115
2051	38,539,110	9,777,583	12,748,288	61,064,981
2052	36,958,759	9,301,553	10,806,119	57,066,431
2053	35,281,543	8,799,335	9,064,558	53,145,435
2054	33,532,277	8,312,410	7,523,473	49,368,160
2055	31,705,355	7,795,043	6,178,209	45,678,607
2056	29,834,072	7,293,507	5,019,999	42,147,577
2057	27,944,571	6,770,445	4,036,634	38,751,649
2058	26,062,427	6,263,354	3,213,330	35,539,111
2059	24,201,851	5,767,672	2,533,541	32,503,064
2060	22,378,601	5,289,682	1,979,859	29,648,142

Schedule SB, line 26b — Schedule of Projection of Expected Benefit Payments

Plan Year	Active Participants	Terminated Vested Participants	Retired Participants and Beneficiaries Receiving Payments	Total
2061	20,613,838	4,834,624	1,534,850	26,983,311
2062	18,921,010	4,405,142	1,181,755	24,507,907
2063	17,307,582	4,001,369	905,001	22,213,951
2064	15,780,271	3,624,430	690,555	20,095,257
2065	14,343,274	3,275,238	526,115	18,144,627
2066	12,997,781	2,952,617	401,186	16,351,583
2067	11,742,399	2,655,308	307,047	14,704,754
2068	10,574,698	2,382,231	236,576	13,193,505
2069	9,491,500	2,131,405	184,082	11,806,987
2070	8,489,184	1,901,368	145,104	10,535,656
2071	7,563,908	1,690,558	116,197	9,370,662

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 07/01/2022 and ending 06/30/2023	
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 instr.) ☒ 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 PENSION PLAN OF THE PACIFIC NORTHWEST LABORATORIES BATTELLE MEMORIAL INSTITUTE 2a Plan sponsor's name (employer, if for a single-employer plan) Mailing address (include room, apt., suite no. and street, or P.O. Box) City or town, state or province, country, and ZIP or foreign postal code (if foreign, see instructions) BATTELLE MEMORIAL INSTITUTE 505 KING AVENUE COLUMBUS OH 43201	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">1b Three-digit plan number (PN) ►</td> <td>005</td> </tr> <tr> <td colspan="2">1c Effective date of plan 07/18/1941</td> </tr> <tr> <td colspan="2">2b Employer Identification Number (EIN) 31-4379427</td> </tr> <tr> <td colspan="2">2c Plan Sponsor's telephone number 614-424-7104</td> </tr> <tr> <td colspan="2">2d Business code (see instructions) 541990</td> </tr> </table>	1b Three-digit plan number (PN) ►	005	1c Effective date of plan 07/18/1941		2b Employer Identification Number (EIN) 31-4379427		2c Plan Sponsor's telephone number 614-424-7104		2d Business code (see instructions) 541990	
1b Three-digit plan number (PN) ►	005										
1c Effective date of plan 07/18/1941											
2b Employer Identification Number (EIN) 31-4379427											
2c Plan Sponsor's telephone number 614-424-7104											
2d Business code (see instructions) 541990											

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	 (Dave Davenport)	04/15/2024	DAVE DAVENPORT
	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	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;">3b Administrator's EIN</td> </tr> <tr> <td style="padding: 5px;">3c Administrator's telephone number</td> </tr> <tr> <td style="height: 40px;"></td> </tr> </table>	3b Administrator's EIN	3c Administrator's telephone number	
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	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;">4b EIN</td> </tr> <tr> <td style="padding: 5px;">4d PN</td> </tr> </table>	4b EIN	4d PN
4b EIN			
4d PN			

5 Total number of participants at the beginning of the plan year	5	9,151
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).		
a (1) Total number of active participants at the beginning of the plan year	6a(1)	4,661
a (2) Total number of active participants at the end of the plan year	6a(2)	5,086
b Retired or separated participants receiving benefits	6b	2,867
c Other retired or separated participants entitled to future benefits	6c	1,317
d Subtotal. Add lines 6a(2), 6b, and 6c	6d	9,270
e Deceased participants whose beneficiaries are receiving or are entitled to receive benefits	6e	348
f Total. Add lines 6d and 6e	6f	9,618
g Number of participants with account balances as of the end of the plan year (only defined contribution plans complete this item)	6g	
h Number of participants who terminated employment during the plan year with accrued benefits that were less than 100% vested	6h	116
7 Enter the total number of employers obligated to contribute to the plan (only multiemployer plans complete this item)	7	

8a If the plan provides pension benefits, enter the applicable pension feature codes from the List of Plan Characteristics Codes in the instructions:

1A 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)	9b Plan benefit arrangement (check all that apply)
(1) ☐ Insurance	(1) ☐ Insurance
(2) ☐ Code section 412(e)(3) insurance contracts	(2) ☐ Code section 412(e)(3) insurance contracts
(3) ☒ Trust	(3) ☒ Trust
(4) ☐ General assets of the sponsor	(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 SB (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Single-Employer Defined Benefit Plan Actuarial Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA) and section 6059 of the Internal Revenue Code (the Code). ▶ File as an attachment to Form 5500 or 5500-SF.	OMB No. 1210-0110 2022 This Form is Open to Public Inspection
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For calendar plan year 2022 or fiscal plan year beginning 07/01/2022 and ending 06/30/2023

▶ **Round off amounts to nearest dollar.**

▶ **Caution:** A penalty of \$1,000 will be assessed for late filing of this report unless reasonable cause is established.

A Name of plan PENSION PLAN OF THE PACIFIC NORTHWEST LABORATORIES, BATTELLE MEMORIAL INSTITUTE	B Three-digit plan number (PN) ▶ 005
C Plan sponsor's name as shown on line 2a of Form 5500 or 5500-SF BATTELLE MEMORIAL INSTITUTE	D Employer Identification Number (EIN) 31-4379427
E Type of plan: ☒ Single ☐ Multiple-A ☐ Multiple-B	F Prior year plan size: ☐ 100 or fewer ☐ 101-500 ☒ More than 500

Part I Basic Information

1 Enter the valuation date: Month 07 Day 01 Year 2022			
2 Assets:			
a Market value.....	2a	1,901,084,627	
b Actuarial value.....	2b	2,046,019,598	
3 Funding target/participant count breakdown	(1) Number of participants	(2) Vested Funding Target	(3) Total Funding Target
a For retired participants and beneficiaries receiving payment.....	3,183	947,804,435	947,804,435
b For terminated vested participants.....	1,393	157,571,596	157,571,596
c For active participants.....	4,661	510,830,464	524,184,188
d Total.....	9,237	1,616,206,495	1,629,560,219
4 If the plan is in at-risk status, check the box and complete lines (a) and (b). ☐			
a Funding target disregarding prescribed at-risk assumptions.....	4a		
b Funding target reflecting at-risk assumptions, but disregarding transition rule for plans that have been in at-risk status for fewer than five consecutive years and disregarding loading factor.....	4b		
5 Effective interest rate.....	5	5.46%	
6 Target normal cost.....			
a Present value of current plan year accruals.....	6a	40,976,679	
b Expected plan-related expenses.....	6b	16,185,000	
c Total (line 6a + line 6b).....	6c	57,161,679	

Statement by Enrolled Actuary

To the best of my knowledge, the information supplied in this schedule and accompanying schedules, statements and attachments, if any, is complete and accurate. Each prescribed assumption was applied in accordance with applicable law and regulations. In my opinion, each other assumption is reasonable (taking into account the experience of the plan and reasonable expectations) and such other assumptions, in combination, offer my best estimate of anticipated experience under the plan.

SIGN HERE AMY WELSMAN, FSA, EA MERCER ONE TOWNE SQUARE, SUITE 1100 SOUTHFIELD MI 48076	 Signature of actuary Type or print name of actuary Firm name Address of the firm	 2/27/2024 Date 2308757 Most recent enrollment number 248-945-5500 Telephone number (including area code)
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If the actuary has not fully reflected any regulation or ruling promulgated under the statute in completing this schedule, check the box and see instructions ☐

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

Schedule SB (Form 5500) 2022
v. 220413

Part II		Beginning of Year Carryover and Prefunding Balances	
		(a) Carryover balance	(b) Prefunding balance
7	Balance at beginning of prior year after applicable adjustments (line 13 from prior year)	0	337,405,798
8	Portion elected for use to offset prior year's funding requirement (line 35 from prior year)	0	0
9	Amount remaining (line 7 minus line 8)	0	337,405,798
10	Interest on line 9 using prior year's actual return of <u>-8.86</u> %	0	-29,894,154
11	Prior year's excess contributions to be added to prefunding balance:		
	a Present value of excess contributions (line 38a from prior year)		42,726,169
	b(1) Interest on the excess, if any, of line 38a over line 38b from prior year Schedule SB, using prior year's effective interest rate of <u>5.63</u> %		2,405,483
	b(2) Interest on line 38b from prior year Schedule SB, using prior year's actual return		0
	c Total available at beginning of current plan year to add to prefunding balance		45,131,652
	d Portion of (c) to be added to prefunding balance		45,131,652
12	Other reductions in balances due to elections or deemed elections	0	0
13	Balance at beginning of current year (line 9 + line 10 + line 11d – line 12)	0	352,643,296

Part III		Funding Percentages	
14	Funding target attainment percentage	14	103.91 %
15	Adjusted funding target attainment percentage	15	125.55 %
16	Prior year's funding percentage for purposes of determining whether carryover/prefunding balances may be used to reduce current year's funding requirement	16	105.18 %
17	If the current value of the assets of the plan is less than 70 percent of the funding target, enter such percentage	17	%

Part IV		Contributions and Liquidity Shortfalls			
18 Contributions made to the plan for the plan year by employer(s) and employees:					
(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees	(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees
07/28/2023	5,000,000	0			
08/17/2023	5,000,000	0			
09/13/2023	10,000,000	0			
Totals ▶			18(b)	20,000,000	18(c)
					0

19 Discounted employer contributions – see instructions for small plan with a valuation date after the beginning of the year:	
a Contributions allocated toward unpaid minimum required contributions from prior years	19a 0
b Contributions made to avoid restrictions adjusted to valuation date	19b 0
c Contributions allocated toward minimum required contribution for current year adjusted to valuation date	19c 18,812,349
20 Quarterly contributions and liquidity shortfalls:	
a Did the plan have a "funding shortfall" for the prior year? ☐ Yes ☒ No	
b If line 20a is "Yes," were required quarterly installments for the current year made in a timely manner? ☐ Yes ☐ No	
c If line 20a is "Yes," see instructions and complete the following table as applicable:	
Liquidity shortfall as of end of quarter of this plan year	
(1) 1st	(2) 2nd
(3) 3rd	(4) 4th

Part V Assumptions Used to Determine Funding Target and Target Normal Cost

21 Discount rate:				
a Segment rates:	1st segment: 4.75 %	2nd segment: 5.18 %	3rd segment: 5.92 %	☐ N/A, full yield curve used
b Applicable month (enter code)				21b 4
22 Weighted average retirement age				22 62
23 Mortality table(s) (see instructions)	☐ Prescribed - combined ☒ Prescribed - separate ☐ Substitute			

Part VI Miscellaneous Items

24 Has a change been made in the non-prescribed actuarial assumptions for the current plan year? If "Yes," see instructions regarding required attachment.....	☒ Yes ☐ No
25 Has a method change been made for the current plan year? If "Yes," see instructions regarding required attachment.....	☐ Yes ☒ No
26 Demographic and benefit information	
a Is the plan required to provide a Schedule of Active Participants? If "Yes," see instructions regarding required attachment.	☒ Yes ☐ No
b Is the plan required to provide a projection of expected benefit payments? If "Yes," see instructions regarding required attachment ...	☒ Yes ☐ No
27 If the plan is subject to alternative funding rules, enter applicable code and see instructions regarding attachment.....	27

Part VII Reconciliation of Unpaid Minimum Required Contributions For Prior Years

28 Unpaid minimum required contributions for all prior years	28	0
29 Discounted employer contributions allocated toward unpaid minimum required contributions from prior years (line 19a).....	29	0
30 Remaining amount of unpaid minimum required contributions (line 28 minus line 29).....	30	0

Part VIII Minimum Required Contribution For Current Year

31 Target normal cost and excess assets (see instructions):			
a Target normal cost (line 6c)	31a	57,161,679	
b Excess assets, if applicable, but not greater than line 31a	31b	57,161,679	
32 Amortization installments:	Outstanding Balance		Installment
a Net shortfall amortization installment	0	0	
b Waiver amortization installment	0	0	
33 If a waiver has been approved for this plan year, enter the date of the ruling letter granting the approval (Month _____ Day _____ Year _____) and the waived amount	33		
34 Total funding requirement before reflecting carryover/prefunding balances (lines 31a - 31b + 32a + 32b - 33)....	34	0	
	Carryover balance	Prefunding balance	Total balance
35 Balances elected for use to offset funding requirement	0	0	0
36 Additional cash requirement (line 34 minus line 35)	36	0	
37 Contributions allocated toward minimum required contribution for current year adjusted to valuation date (line 19c)	37	18,812,349	
38 Present value of excess contributions for current year (see instructions)			
a Total (excess, if any, of line 37 over line 36)	38a	18,812,349	
b Portion included in line 38a attributable to use of prefunding and funding standard carryover balances	38b	0	
39 Unpaid minimum required contribution for current year (excess, if any, of line 36 over line 37)	39	0	
40 Unpaid minimum required contributions for all years	40	0	

Part IX Pension Funding Relief Under the American Rescue Plan Act of 2021 (See Instructions)

41 If an election was made to use the extended amortization rule for a plan year beginning on or before December 31, 2021, check the box to indicate the first plan year for which the rule applies. ☒ 2019 ☐ 2020 ☐ 2021
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