

TRANSMITTAL AND RECEIPT RECORD  
(Please sign and return carbon copy acknowledging receipt)

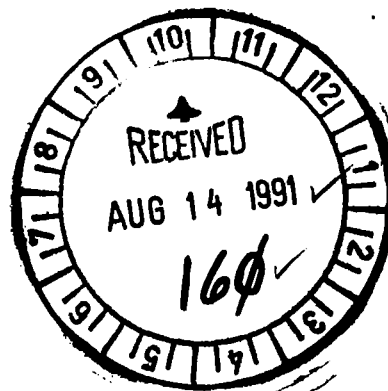
TO: NOAA/NESDIS/NODC 1825 Connecticut Ave NW Seattle, Wa. 98115	REFER TO <b>ACC # 9100153</b> ✓
	ATTENTION E/OC13, Dr. Anthony R. Picciolo

THE ITEM(S) LISTED BELOW WERE FORWARDED TO YOU BY

☒ ORDINARY MAIL    ☐ REGISTERED MAIL    ☐ AIR MAIL    ☐ CERTIFIED MAIL    ☐ GOVERNMENT TRUCK    ☐ BY HAND    ☐ OTHER

Enclosed, find documentation, associated reports and three (3) high density diskettes containing trace metals and ancillary data resultant from research as part of the Puget Sound Long Range Effects <sup>RESEARCH</sup> program (L-RERP). These data sets were received from Mr. Anthony Paulson, PMEL - MRRD division.

CC: Mr. Anthony Paulson, PMEL



FORWARDED BY (Signature) Sid Stillwaugh	TITLE NODC Liaison Officer, Seattle	DATE FORWARDED 8/7/91
RECEIVED BY (Signature)	TITLE	DATE RECEIVED

August 7, 1991

Tony,

Per my call to you on Tues. August 6th, here are those PMEL submitted trace metals data sets I'd been agonizing over whether or not to send. As I mentioned, I believe the data are useful although one has to move around from one directory to the next to obtain both the basic sampling information (ie: sample no., latitude, longitude, date, time, etc.) - then go on to the directory for the particular sample location of interest. The actual data are in ASCII files separated by commas. The INTRO directory on each diskette has the location information. It's a bit of work (hence my reluctance to forward this stuff) but this data could be retained as level 1 (or A ???). To be really useful the data requestor should also contact PMEL for copies of the associated reports (that have the data on microfiche), then throw the diskettes away and use these (just kidding). The reports I've enclosed will be necessary to whoever on your end gets the dubious pleasure of looking over these data. I've also annotated enclosed printed out directories with each diskette so that the individual location directories are more readily understandable.

I'm sure there'll be questions (like why the hell did he send this stuff ???) but Tony Paulson agreed to help and answer questions for whoever is going over the data. His FTS is 392-6246.

Good luck,

(many enclosures)

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<input type="checkbox"/> OTHER		
<p>Enclosed, find documentation, associated reports and three (3) high density diskettes containing trace metals and ancillary data resultant from research as part of the Puget Sound Long Range Effects program (L-RERP). These data sets were received from Mr. Anthony Paulson, PMEL - MRRD division.</p> <p>CC: Mr. Anthony Paulson, PMEL</p>		
FORWARDED BY (Signature) Sid Stillwaugh	TITLE NODC Liaison Officer, Seattle	DATE FORWARDED 8/7/91
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ACCESSION  
NUMBER

## DATA DOCUMENTATION FORM

NOAA FORM 24-13  
(2-85)U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEANOGRAPHIC DATA CENTER  
RECORDS SECTION  
WASHINGTON, DC 20235FORM APPROVED  
O.M.B. No. 0648-0024  
EXPIRES 2/29/87

(While you are not required to use this form, it is the most desirable mechanism for providing the required ancillary information enabling the NODC and users to obtain the greatest benefit from your data.)

This form should accompany all data submissions to NODC. Section A, Originator Identification, must be completed when the data are submitted. It is highly desirable for NODC to also receive the remaining pertinent information at that time. This may be most easily accomplished by attaching reports, publications, or manuscripts which are readily available describing data collection, analysis, and format specifics. Readable, handwritten submissions are acceptable in all cases. All data shipments should be sent to the above address.

## A. ORIGINATOR IDENTIFICATION

THIS SECTION MUST BE COMPLETED BY DONOR FOR ALL DATA TRANSMITTALS

1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED			
Pacific Marine Environmental Laboratory, NOAA 7600 Sand Point Way NE Seattle, Wa. 98115			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT	
Puget Sound - Long Range Effects Research Program (L-RERP)			
4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)	7. DATES
McArthur Miller Freeman	ship	PLATFORM OPERATOR	FROM: MO/DAY/YR TO: MO/DAY/YR
		US US	8/11/79 8/23/86
8. ARE DATA PROPRIETARY? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES  IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR _____ MONTH _____		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.	
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?) <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)		GENERAL AREA	
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1)  Anthony Paulson (206) 526-6246			

## C. DATA FORMAT

COMPLETE THIS SECTION FOR PUNCHED CARDS OR TAPE, MAGNETIC TAPE, OR DISC SUBMISSIONS.

1. LIST RECORD TYPES CONTAINED IN THE TRANSMITTAL OF YOUR FILE  
GIVE METHOD OF IDENTIFYING EACH RECORD TYPE

ASCII files on high density diskette

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

Data files for each station are organized under subdirectories in the same manner as the data sections in the text of the data report entitled "Trace Metal and Ancillary Data in the Watersheds and Urban Embayments of Puget Sound" (NOAA Data Report ELR-PMEL-30). Fields in the rows of the data files are separated by a comma.

The subdirectory entitled "Intro" contains sampling and collection data for each station. The files that start with "flnm" are files that contain the conversion between the VAX file names in each section and the IBM file name (only 8 characters)

3. ATTRIBUTES AS EXPRESSED IN ☐ PL-1 ☐ ALGOL ☐ COBOL  
☐ FORTRAN ☐ \_\_\_\_\_ LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER \_\_\_\_\_

ADDRESS \_\_\_\_\_

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

5. RECORDING MODE <input type="checkbox"/> BCD <input type="checkbox"/> BINARY <input type="checkbox"/> ASCII <input type="checkbox"/> EBCDIC <input type="checkbox"/> _____	9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input type="checkbox"/> 3/4 INCH <input type="checkbox"/> _____
	10. END OF FILE MARK <input type="checkbox"/> OCTAL 17 <input type="checkbox"/> _____
6. NUMBER OF TRACKS (CHANNELS) <input type="checkbox"/> SEVEN <input type="checkbox"/> NINE <input type="checkbox"/> _____	11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)
7. PARITY <input type="checkbox"/> ODD <input type="checkbox"/> EVEN	
8. DENSITY <input type="checkbox"/> 200 BPI <input type="checkbox"/> 1600 BPI <input type="checkbox"/> 556 BPI <input type="checkbox"/> 800 BPI <input type="checkbox"/> _____	12. PHYSICAL BLOCK LENGTH IN BYTES
	13. LENGTH OF BYTES IN BITS

ACCESSION  
NUMBER

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WASHINGTON, DC 20235FORM APPROVED  
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McArthur Miller Freeman	ship	PLATFORM OPERATOR	FROM: MO/DAY/YR TO: MO/DAY/YR
		US US	8/11/79 8/23/86
8. ARE DATA PROPRIETARY? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES  IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR ____ MONTH ____		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.	
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?)  <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)		GENERAL AREA	
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### C. DATA FORMAT

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ASCII files on high density diskette

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4. RESPONSIBLE COMPUTER SPECIALIST:

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ADDRESS \_\_\_\_\_

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<b>5. RECORDING MODE</b> <input type="checkbox"/> BCD <input type="checkbox"/> BINARY <input type="checkbox"/> ASCII <input type="checkbox"/> EBCDIC <input type="checkbox"/> _____	<b>9. LENGTH OF INTER-RECORD GAP (IF KNOWN)</b> <input type="checkbox"/> 3/4 INCH <input type="checkbox"/> _____
<b>6. NUMBER OF TRACKS (CHANNELS)</b> <input type="checkbox"/> SEVEN <input type="checkbox"/> NINE <input type="checkbox"/> _____	<b>10. END OF FILE MARK</b> <input type="checkbox"/> OCTAL 17 <input type="checkbox"/> _____
<b>7. PARITY</b> <input type="checkbox"/> ODD <input type="checkbox"/> EVEN	<b>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</b>
<b>8. DENSITY</b> <input type="checkbox"/> 200 BPI <input type="checkbox"/> 1600 BPI <input type="checkbox"/> 556 BPI <input type="checkbox"/> 800 BPI <input type="checkbox"/> _____	
	<b>12. PHYSICAL BLOCK LENGTH IN BYTES</b>
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ACCESSION  
NUMBER

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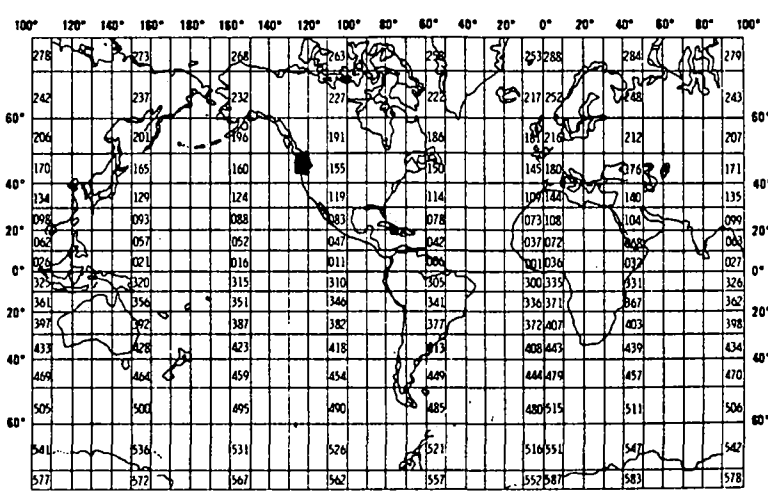
NOAA FORM 24-13  
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12. PHYSICAL BLOCK LENGTH IN BYTES	
13. LENGTH OF BYTES IN BITS	

## CHEMISTRY DATA FOR L-RERP 80/PSB19

0 Depth nom. (m)	1 Depth act. (m)	2 Temp. (deg. C)	3 Salinity (g/Kg)	4 O2 (uM)	5 Methane (uM)	6 PO4 (uM)	7 SiO4 (uM)	8 NO3 (uM)	9 NO2 (uM)	10 NH3 (uM)	11 Remarks
---------------------	---------------------	---------------------	----------------------	--------------	-------------------	---------------	----------------	---------------	---------------	----------------	------------

1	0	3	11.30	28.200	0.138						
2	10										
3	20	24	9.97	29.290	0.128						
4	50	53	9.62	29.550	0.135						
5	65										
6	100	103	9.72	29.810	0.105						
7	125	128	9.76	29.950	0.096						
8	150	153	9.72	30.040	0.097						
9	170										
10 B-5		177	9.57	30.420	0.091						

0 Depth nom. (m)	12 Depth act. (m)	13 Sal. (g/Kg)	14	Dis. Cd ug/L	15 Dis. Mn ug/L	16 Dis. Fe ug/L	17 Dis. Ni ug/L	18 Dis. Cu ug/L	19 Dis. Zn ug/L	20 Dis. Pb ug/L	21 Comments
---------------------	----------------------	-------------------	----	--------------------	-----------------------	-----------------------	-----------------------	-----------------------	-----------------------	-----------------------	-------------

1	0										
2	10										
3	20										
4	50										
5	65										
6	100										
7	125										
8	150										
9	170										
10 B-5											

0 Depth nom. (m)	22 Depth act. (m)	23 TSM ug/l	24 Part. Al Wt %	25 Part. Si Wt %	26 Part. Mn ppm	27 Part. Fe Wt %	28 Part. Ni ppm	29 Part. Cu ppm	30 Part. Zn ppm	31 Part. Pb ppm	32 Comments
---------------------	----------------------	----------------	------------------------	------------------------	-----------------------	------------------------	-----------------------	-----------------------	-----------------------	-----------------------	-------------

1	0	3	1460								
2	10	10	1277								
3	20	24	849								
4	50										
5	65	65	707								
6	100	110	948								
7	125										
8	150	153	1274								
9	170	170	3489								
10 B-5		175	1633								

Lat: 47 48.7 N Long: 122 26.6 W Date: 25 May 80 18:33 L  
 All salinities from CTD. Oxygen and nutrient samples taken during CTD cast.  
 TSM, POC and PON samples taken during separate rosette cast.  
 Methane samples taken from hydrocast.  
 Location and time of sampling are given for CTD cast.

(WATER COLUMN DATA FORMAT)

CHEMISTRY DATA FOR L-RERP 80/PSB19

0 Depth nom. (m)	33 POC Wt %	34 PON Wt %	35 Coulter Counter Avail/NA
1	0	27.90	5.71
2	10	9.29	2.58
3	20	14.00	2.64
4	50		
5	65	5.31	2.36
6	100	10.60	1.51
7	125		
8	150	22.00	3.93
9	170	5.11	0.81
10 B-5		8.58	1.37

Lat: 47 48.7 N Long: 122 26.6 W Date: 25 May 80 18:33 L  
 All salinities from CTD. Oxygen and nutrient samples taken during CTD cast.  
 TSM, POC and PON samples taken during separate rosette cast.  
 Methane samples taken from hydrocast.  
 Location and time of sampling are given for CTD cast.

## Solid Phase Chemical Data for L-RERP 81-4 Surface Sediments

0 Core	1 Depth Interval (cm)	2 Porosity	3 Part. Al Wt %	4 Part. Si Wt %	5 Part. Mn ppm	6 Part. Fe Wt %	7 Part. Ni ppm	8 Part. Cu ppm	9 Part. Zn ppm	10 Part. Pb ppm	11 Part. V ppm	12 Part. Cr ppm
1 EB4-1	0-10	0.41	8.10		550	3.81		57	114	62	104	57
2 EB8A	0-10	0.46	5.90		540	4.17		67	134	60	<55	104
3 EB11A-3	0-10	0.53	7.20		550	3.93		72	142	49	86	116

0 Core	13 Part. Cd ppm	14 Part. Ag ppm	15 Part. As ppm	16 Part. Hg ppm	17 Part. 210Pb PbCi/g	18 Comments	19 POC Wt %	20 PON Wt %
1 EB4-1	0.32	0.43	16	0.443				
2 EB8A	0.88	0.59	18	0.425				
3 EB11A-3								

(SOLIDS DATA)

## Chemistry Data for the DECI Gravity Core EB4

0 Depth Interval (cm)	1	2 Temp. (deg. C)	3 Salinity (g/kg)	4 Eh (mv)	5 Porosity	6 PO4 (uM)	7 SiO4 (uM)	8 NO3 (uM)	9 NO2 (uM)	10 NH3 (uM)	11 Remarks
1 0-2			30.3		0.79	41.28	371.7	5.12	3.04	57.8	
2 2-4			30.5		0.77	61.80	410.4	0.00	8.00	117.9	
3 4-6			31.0	15		36.80	452.6				
4 6-8			30.5			36.60	369.0	1.53	2.08	141.9	
5 8-10			30.5	125		22.90	407.7	46.70	48.80	176.0	
6 10-12			30.2		0.62	22.70	444.5	1.28	2.08	290.0	
7 20-22			30.5								
8 30-32			30.5	75							
9 40-42			30.5	74	0.54						
10 50-52			31.2		0.70						
11 60-62			30.5			138.80	640.0	1.44	8.00	1260.0	
12 80-82			30.3		0.52						
13 100-102			31.1	-12	0.56						
14 110-122			29.5			171.20	620.6	6.40	8.56	1488.0	

0 Depth Interval (cm)	12 Depth act. (m)	13 Sal. (g/Kg)	14	Dis. Cd ug/L	15 Dis. Mn (ppm)	16 Dis. Fe (ppm)	17 Dis. Ni ug/L	18 Dis. Cu ug/L	19 Dis. Zn ug/L	20 Dis. Pb ug/L	21 Comments
1 0-2					2.96	8.80					
2 2-4					2.71	9.00					
3 4-6					3.17	7.80					
4 6-8					2.62	8.30					
5 8-10					2.62	6.80					
6 10-12					3.63	1.70					
7 20-22					3.71	2.50					
8 30-32					4.42	2.60					
9 40-42					5.22	0.80					
10 50-52					5.72	1.10					
11 60-62					6.60	2.00					
12 80-82					4.20	1.30					
13 100-102					3.88	0.80					
14 110-122					4.34	0.50					

Lat: 47 36.38 N Long: 122 21.62 W Date: 19 Feb 80

(POREWATER)

C:\>a:

ERL - PMEL - 30

A:\>dir

Volume in drive A has no label  
Directory of A:\

DR	<DIR>	1-28-91	4:48p
DW	<DIR>	1-28-91	4:49p
EB	<DIR>	1-28-91	4:49p
CB	<DIR>	1-28-91	4:50p
SOL	<DIR>	1-28-91	4:51p
TIPS	<DIR>	1-28-91	4:51p
PW	<DIR>	1-28-91	4:51p
INTRO	<DIR>	1-28-91	4:51p
READ	ME	579	8-02-91 1:04p
9 File(s) 967680 bytes free			

A:\>

← Duwamish River (DR)

DW = Duwamish waterway

EB = Elliott Bay

CB = Commencement Bay

SOL = solids data, Elliott Bay

TIPS = (freshwater data from rivers, see pg. 51 in the report)

PW = porewater

A:\INTRO>dir

Volume in drive A has no label  
Directory of A:\INTRO

.	<DIR>	1-28-91	4:51p
..	<DIR>	1-28-91	4:51p
CBINTRO	TXT	6356	1-25-91 10:57a
DRINTRO	TXT	5046	1-25-91 10:57a
DWINTRO	TXT	4032	1-25-91 10:58a
EBINTRO	TXT	9598	1-25-91 10:58a
FLNMCB	TXT	1155	1-25-91 10:58a
FLNMDR	TXT	101	1-25-91 10:58a
FLNMDW	TXT	925	1-25-91 10:58a
FLNMEB	TXT	1260	1-25-91 10:58a
FLNMPW	TXT	346	1-25-91 10:58a
FLNMSOL	TXT	39	1-25-91 10:58a
FLNMTIPS	TXT	99	1-25-91 10:58a
PWINTRO	TXT	1056	1-25-91 10:58a
REINTRO	TXT	505	1-25-91 10:58a
RIVINTRO	TXT	2731	1-25-91 10:58a
SOLINTRO	TXT	1313	1-25-91 10:58a
17 File(s) 967680 bytes free			

A:\INTRO>

9100153

(3) 5.25"