

Main report available at KCM library

LONGFELLOW CREEK
REHABILITATION STUDY
APPENDIX:
WATER QUALITY DATA



LONGFELLOW CREEK STUDY

WATER QUALITY APPENDIX

WATER QUALITY
Suspended and Volatile Solids

12/15/76

Source: Longfellow Creek
 Number: _____

Date: 15-XII-76
 Analyzed By: SA / PL - Long, Student

Station		1B	2A	3	4	5							
Disc. No.				*		*							
	05	133	73	d	131	Blank							
Volume	150	150	150	150	150	150							
wt. Total	17.	13.	10.	17.	15.	6.							
	879	6105	1395	7471	6216	7646							
wt. Crac.	17.	15.	18.	17.	15.	16.							
	052	6079	2369	7459	6194	7603							
wt. Sol.													
	027	0026	0026	0012	0022	0043							
g/l Sol.													

Station													
Disc. No.													
Volume													
wt. Total													
wt. Crac.													
wt. Sol.													
g/l Sol.													

Volatile Solids

Pre-ign. wt.													
Post-ign. wt.													
wt. Sol.													
g/l Sol.													
Percent volatile													

102
14334
21057

Page 4 of this publication is too illegible to be viewed online. To request a printed copy of this publication, please contact the Environmental Assessment Program at the Washington State Department of Ecology.

Dec. 1976		BOD	turb.	Cond. units	alkal. units	Calc. CaCO_3	Susp. Solids	Total phosph	Artes. PO_4	$\text{NO}_3\text{-N}$	NH_3	pH
Est. #4	DO	#338 2.4	18 ^③	210	5.57 5.82	191.67.55	1.0027	.140	.074	1.530	169	6.5
Hydro	1A	5.78 #60 7.85	4.5	227	8.32 8.53		1.0026	.115	.078		.5	7.4
Brandon	2	12.22				197.35.53		.090	.061	1.022	16.4	
golf	2A	11.40	3.6	235	10.28 10.52	6 6 33.0.72	1.0011 1.0026		.067		12.4	7.7
BR	3	8.41	4.9	225	7.89 8.10	1 5 118.0.35	1.0011 1.0012	.086	.020	1.000		7.6
Bath steel oil separator	4	10.50 #39 7.07	6.8	142	3.40 3.53	25 - 35	1.0011 1.0022	.053	.103	.114	.028	7.24
oil filter P-22 (1st level)	5	7.89 #176 7.08	3.6	20.000	8.33 8.63	9 6 76	1.0043 1.0011 1.0015	.127 mg/L	.035 mg/L	.519 mg/L	mg/L	7.3
Dawson												

(g/150 ml) calc. CaCO_3

DATA from Longfellow Creek Watershed Dec 10 - 23, 1976 12/15/76

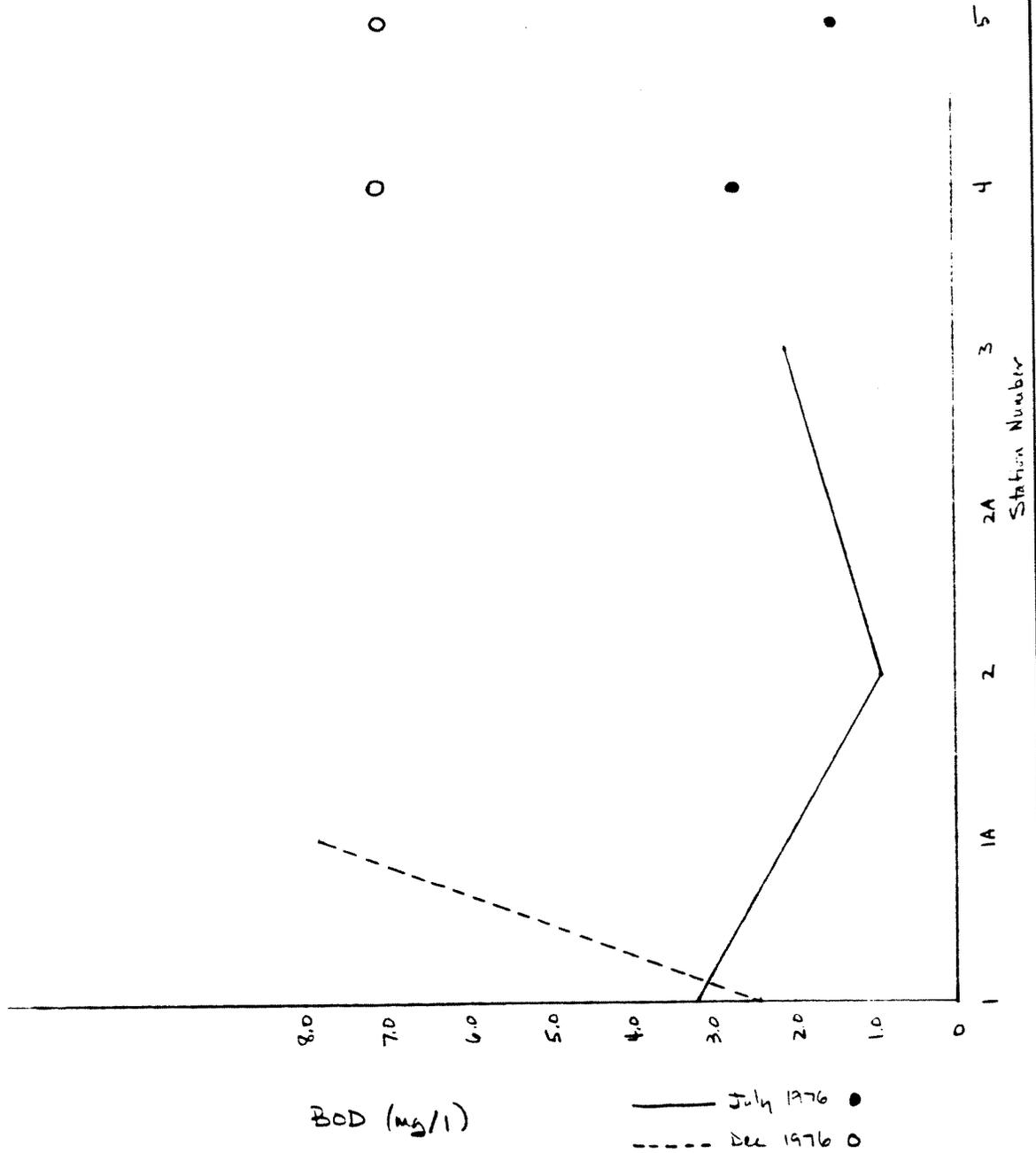
July 1976

Site #	DO	300	Conductivity	Temp	Depth	Hardness	Alkalinity	Total Phosphates	Calc P ₃	NO ₃ ⁻	NO ₂ ⁻	pH	A. A. Nit Conc NO ₃
1	7.67	3.2	1.5	27.5	3.5			.156	.059	1.8	1103	6.5	2.95
2	10.60	19	1.5	26.0	9.71 9.72			.188	.060	1.4	1019	7.1	1.40
3	11.12	2.1	2.8	27.0	3.42 3.60			.189	.094	3.1	1026	7.1	1.31
4	9.0	2.7	6.1	97	3.43 3.68			.108	.017	9.0	1006	6.7	0.006
5	9.90	1.5	2.0	13900	10.32			A-.181 B-.138 (.160)	.085	4.1	1061	7.35	1.05
	pp.m.	mg/L						mc/L	mg/L	mg/L	mg/L		mg/L

all original data.

Kramer, Chin & Mayo, Inc.

Client: BOD

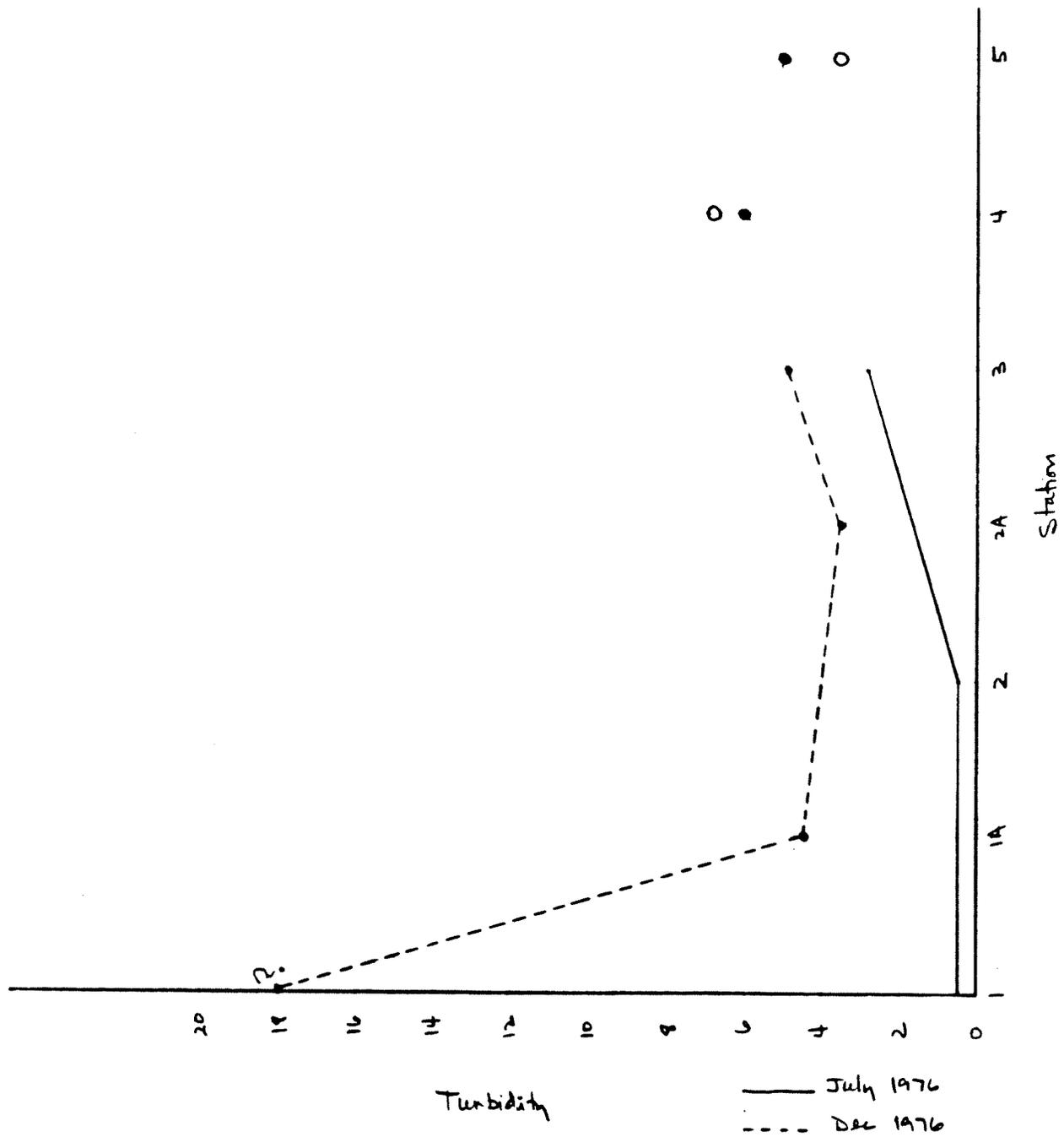


<u>7-14</u> JOB NO	<u>2-14</u> BY	 CHECK	<u>Longfellow Creek Water Quality - BOD</u> SUBJECT	<u>Feb 77</u> DATE	<u>2-14</u> SHEET NO.
-----------------------	-------------------	-----------	--	-----------------------	--------------------------

Kramer, Chin & Mayo, Inc.

Client:

Turbidity

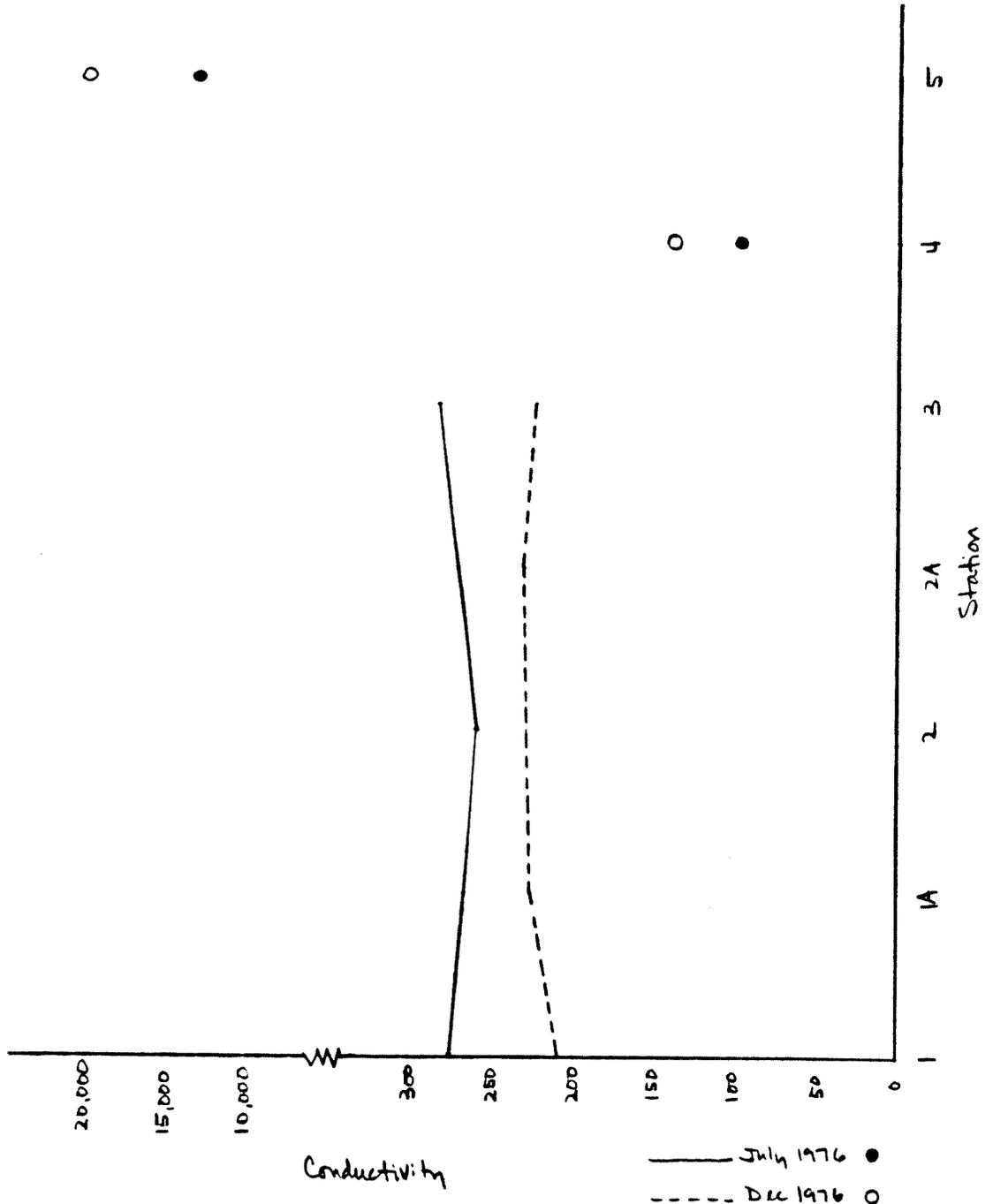


776-1 JOB NO.	DS BY	CHECK	Longfellow Creek Water Quality - Turbidity SUBJECT	8 Feb 77 DATE	3-14 SHEET NO.
------------------	----------	-------	---	------------------	-------------------

Kramer, Chin & Mayo, Inc.

Client:

Conductivity

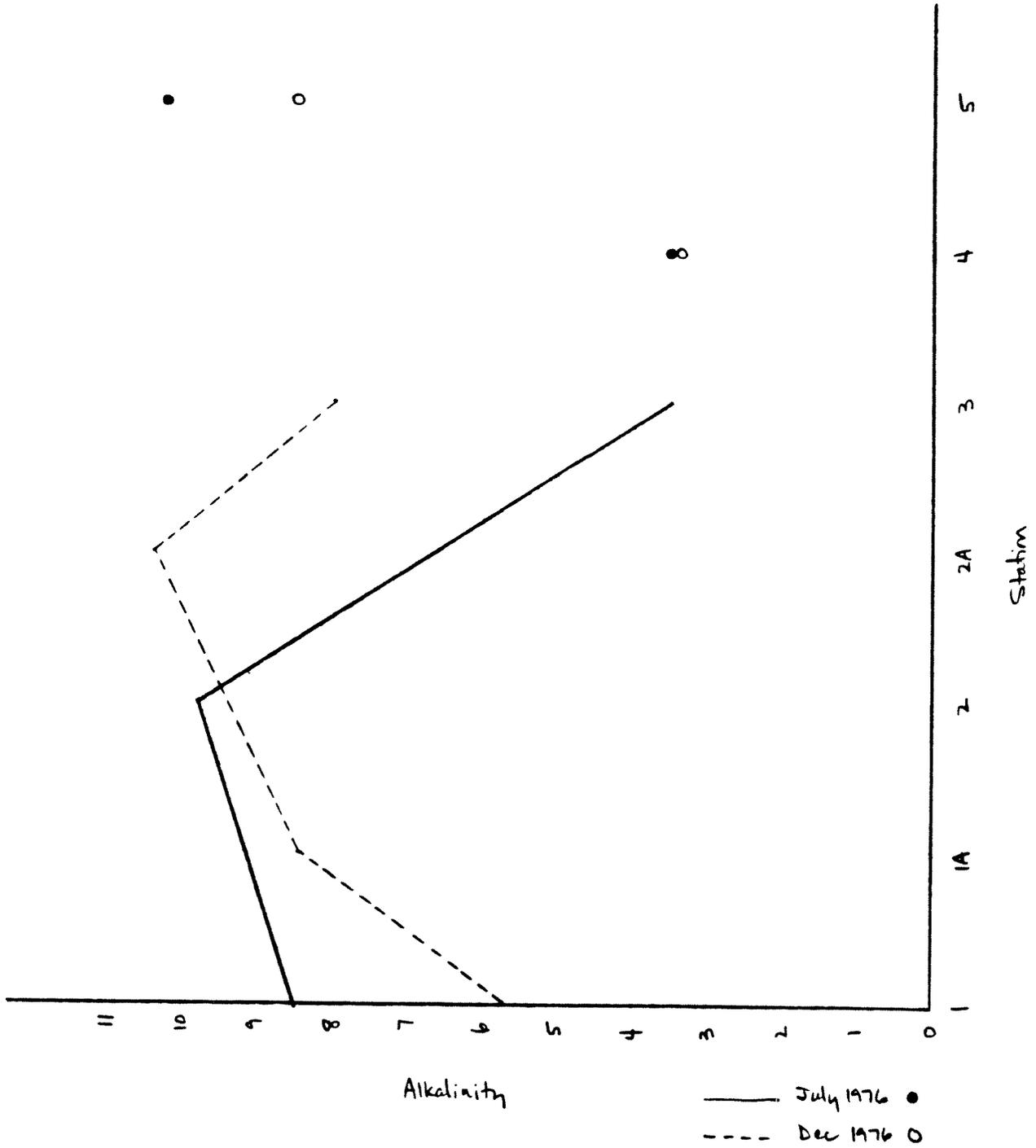


776-1 JOB NO.	 BY	_____ CHECK	Longfellow Creek Water Quality - Conductivity SUBJECT	RFB DATE	4-14 SHEET NO.
------------------	--------	----------------	--	-------------	-------------------

Kramer, Chin & Mayo, Inc.

Client:

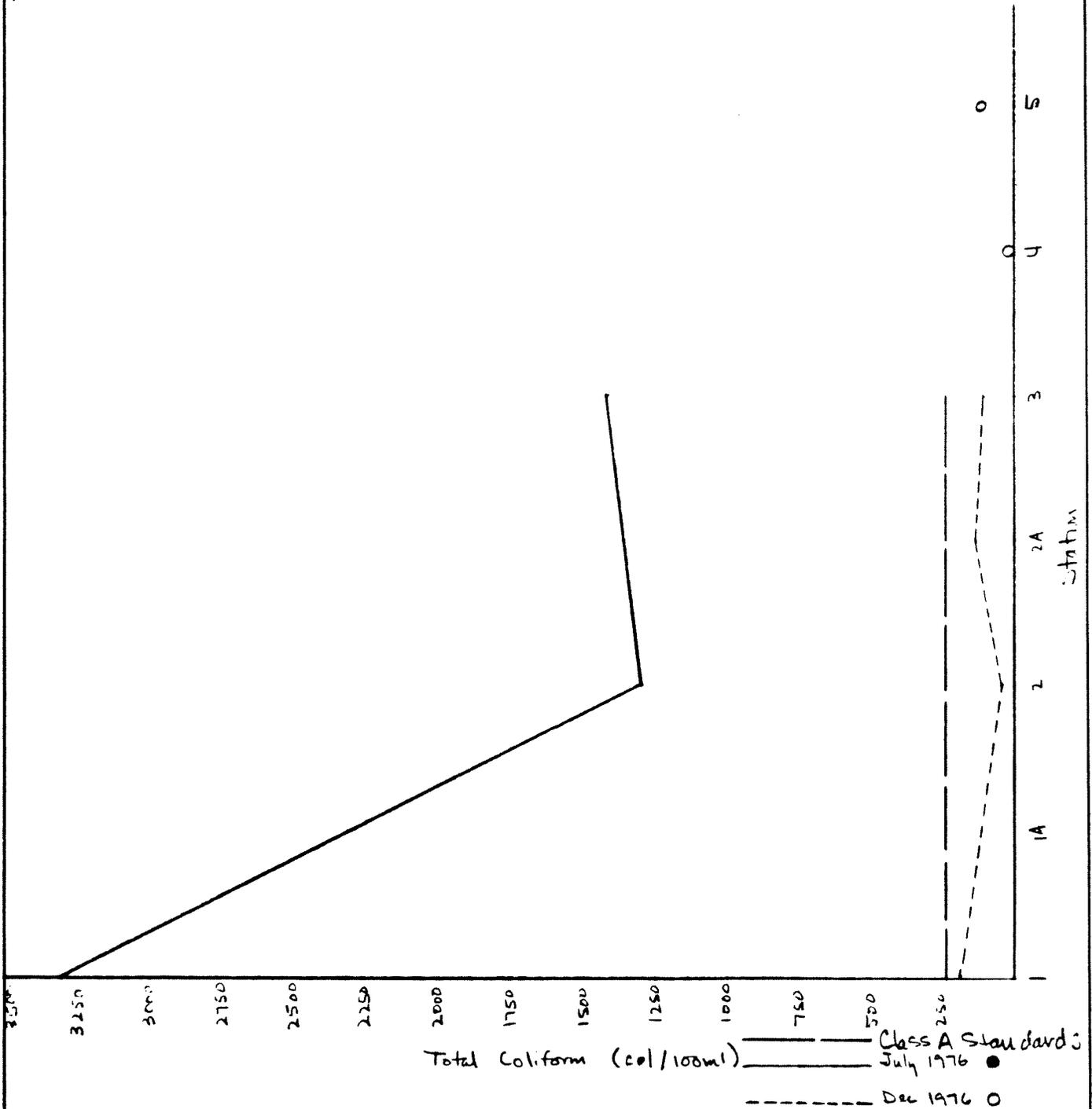
Alkalinity



776-1 JOB NO.	DS BY	CHECK	Longfellow Creek Water Quality - Alkalinity SUBJECT	8 Feb 77 DATE	5-14 SHEET NO.
------------------	----------	-------	--	------------------	-------------------

Kramer, Chin & Mayo, Inc.

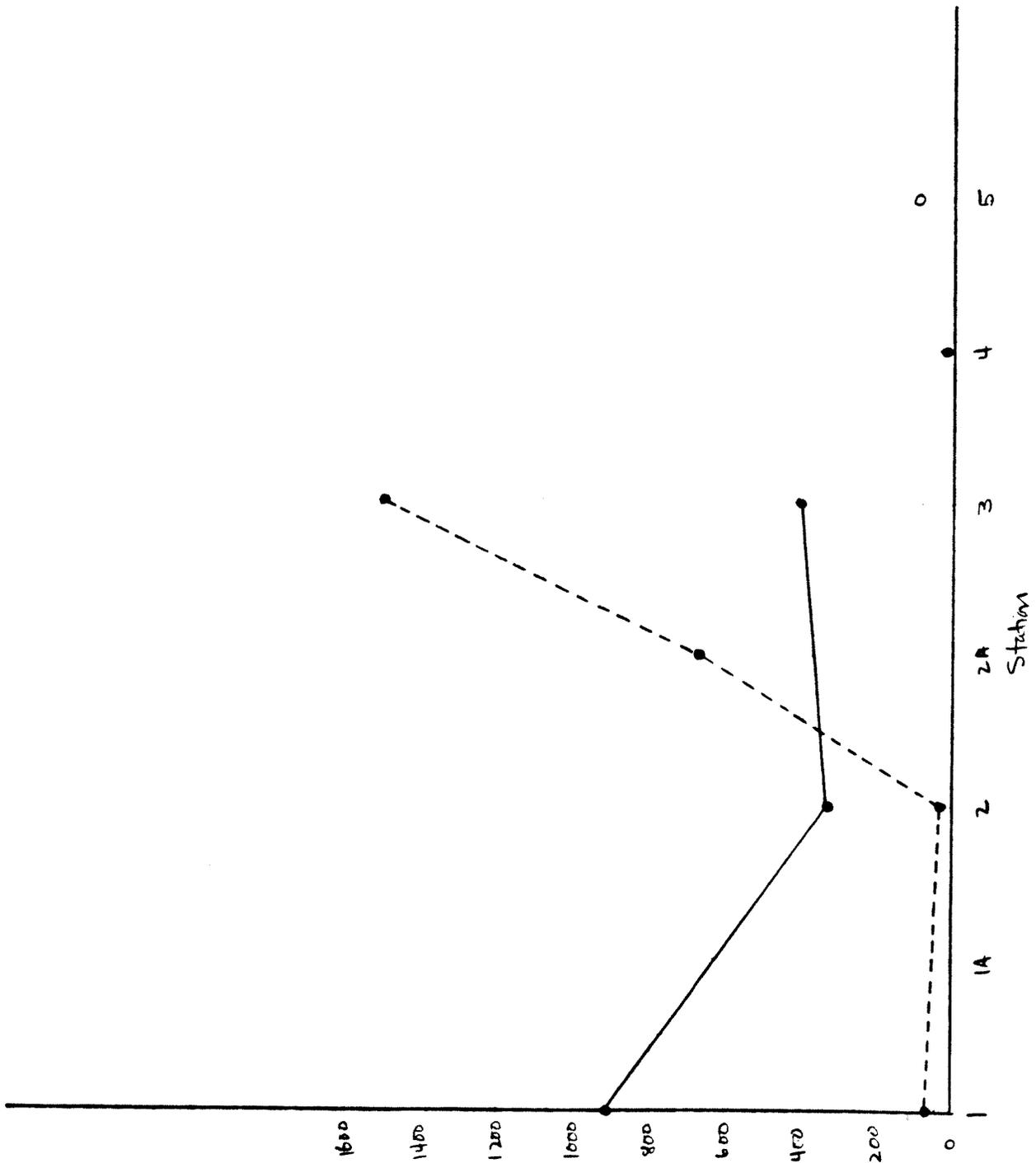
Client: Total Coliform



776-1 JOB NO.	JS BY	 CHECK	Longfellow Creek Water Quality - Total Coliform SUBJECT	8 Feb 77 DATE	6-14 SHEET NO.
------------------	----------	-----------	--	------------------	-------------------

Kramer, Chin & Mayo, Inc.

Client: Fecal Coliform



Fecal Coliform (col/100ml)

— July 1976 ●
 - - - Dec 1976 ○

776-1
JOB NO.

DS
BY

CHECK

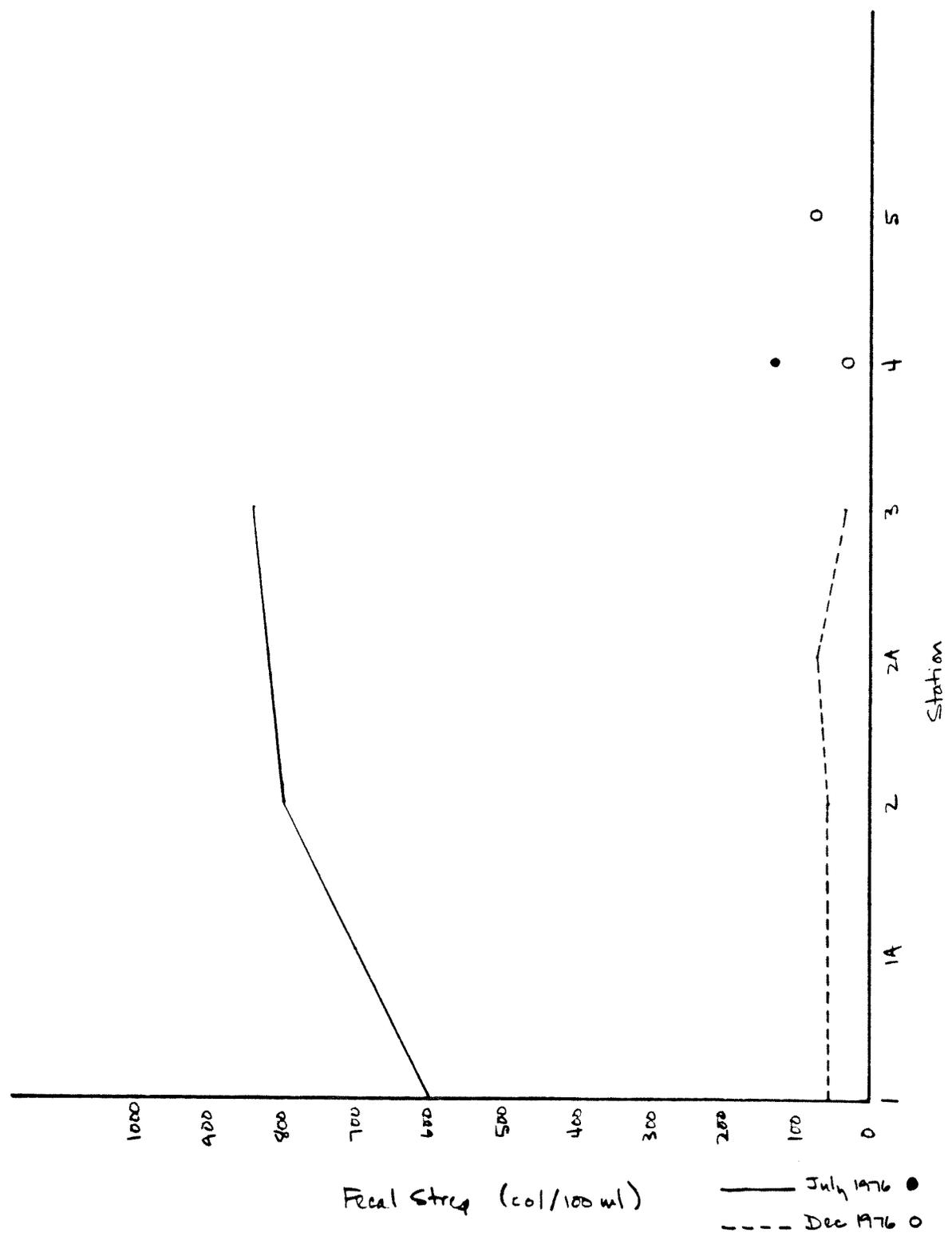
Longfellow Creek Water Quality - Fecal Coliform
SUBJECT

8 Feb 77
DATE

7-14
SHEET NO.

Kramer, Chin & Mayo, Inc.

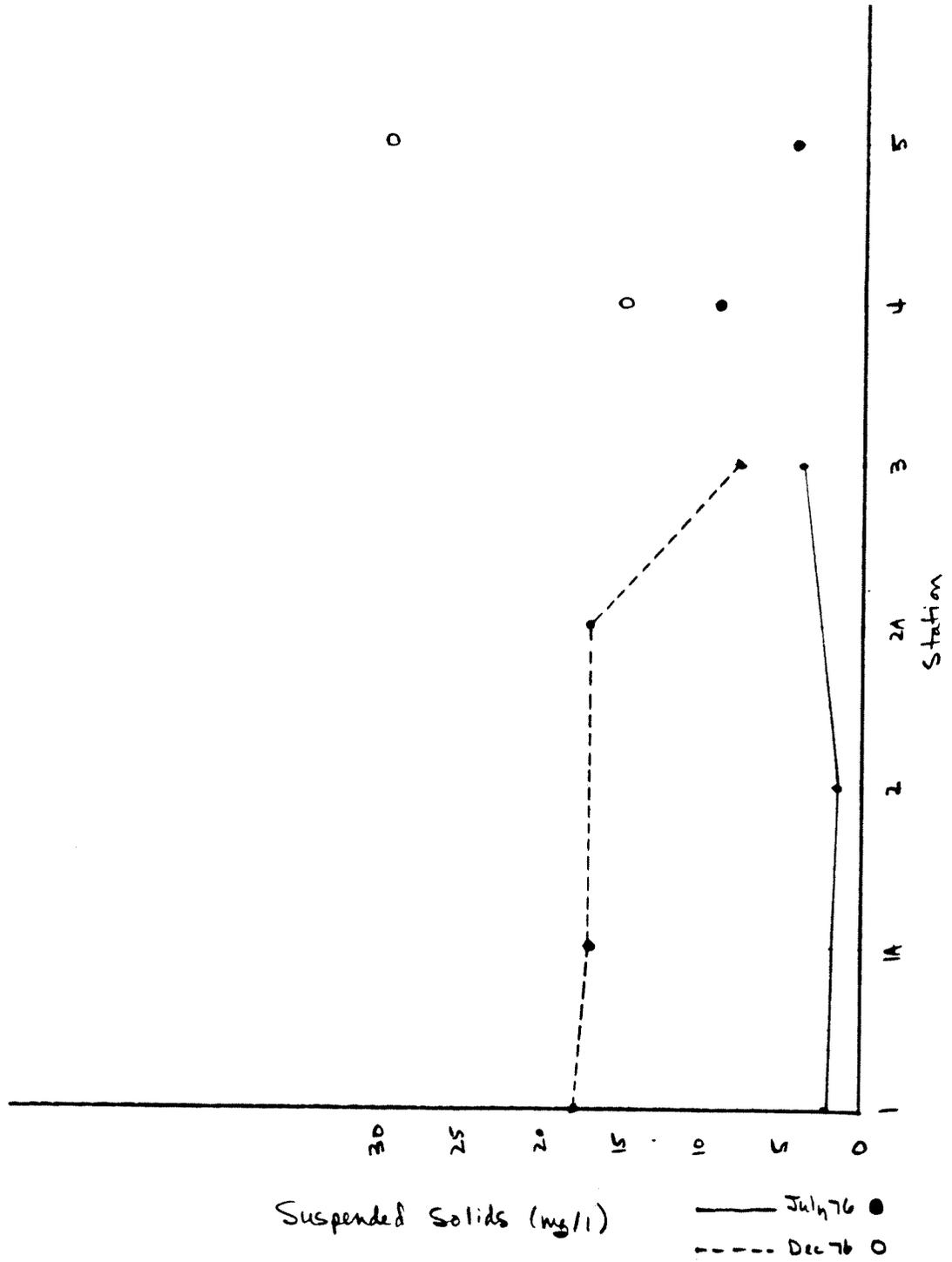
Client: Fecal Strept



776-1 JOB NO.	DS BY	CHECK	Longfellow Creek Water Quality - Fecal Strept SUBJECT	8 Feb 77 DATE	8-14 SHEET NO.
------------------	----------	-------	--	------------------	-------------------

Kramer, Chin & Mayo, Inc.

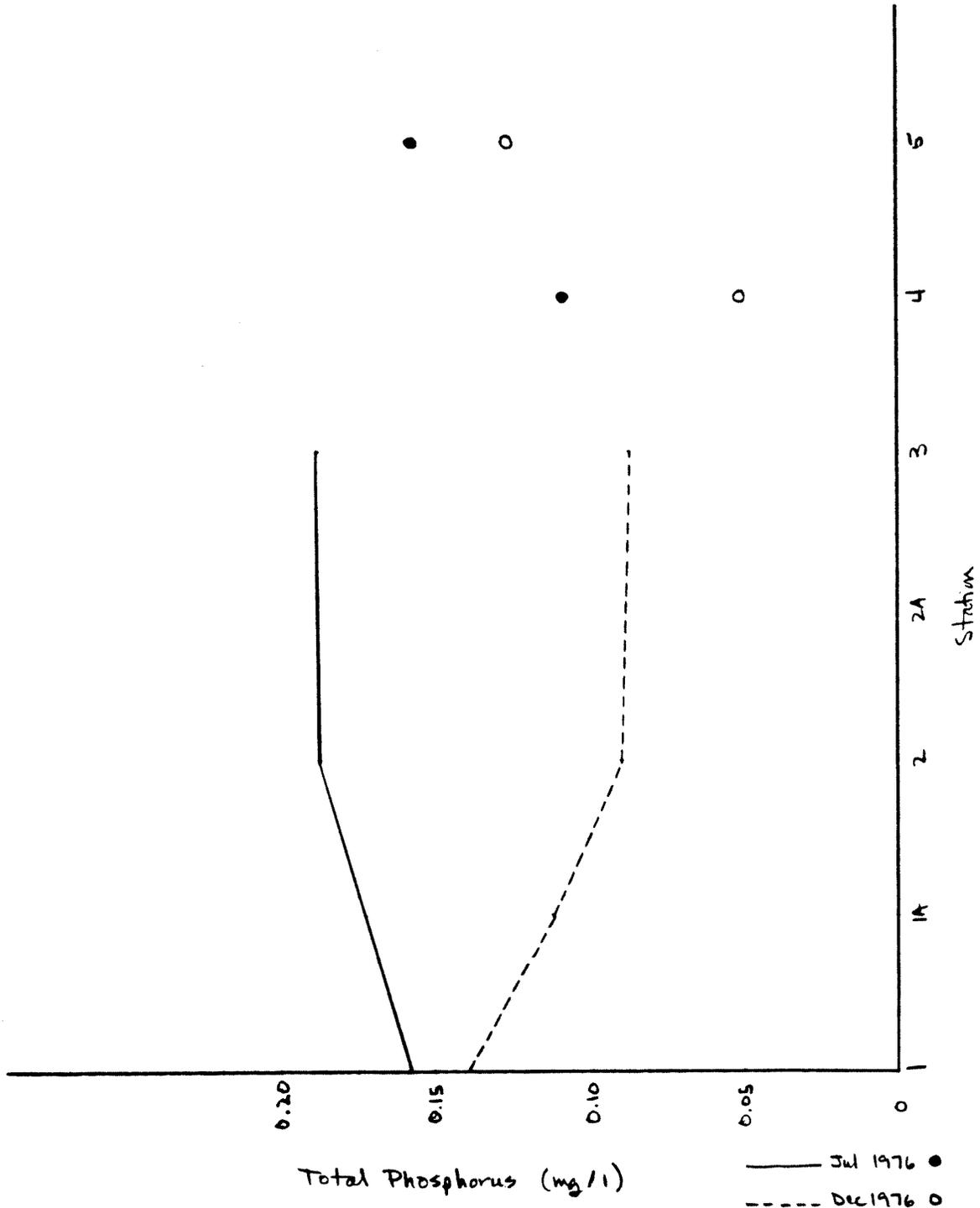
Client: Suspended Solids



776-1 JOB NO.	DS BY	CHECK	Longfellow Creek Water Quality - Sus. Solids SUBJECT	R Feb 77 DATE	5-14 SHEET NO.
------------------	----------	-------	---	------------------	-------------------

Kramer, Chin & Mayo, Inc.

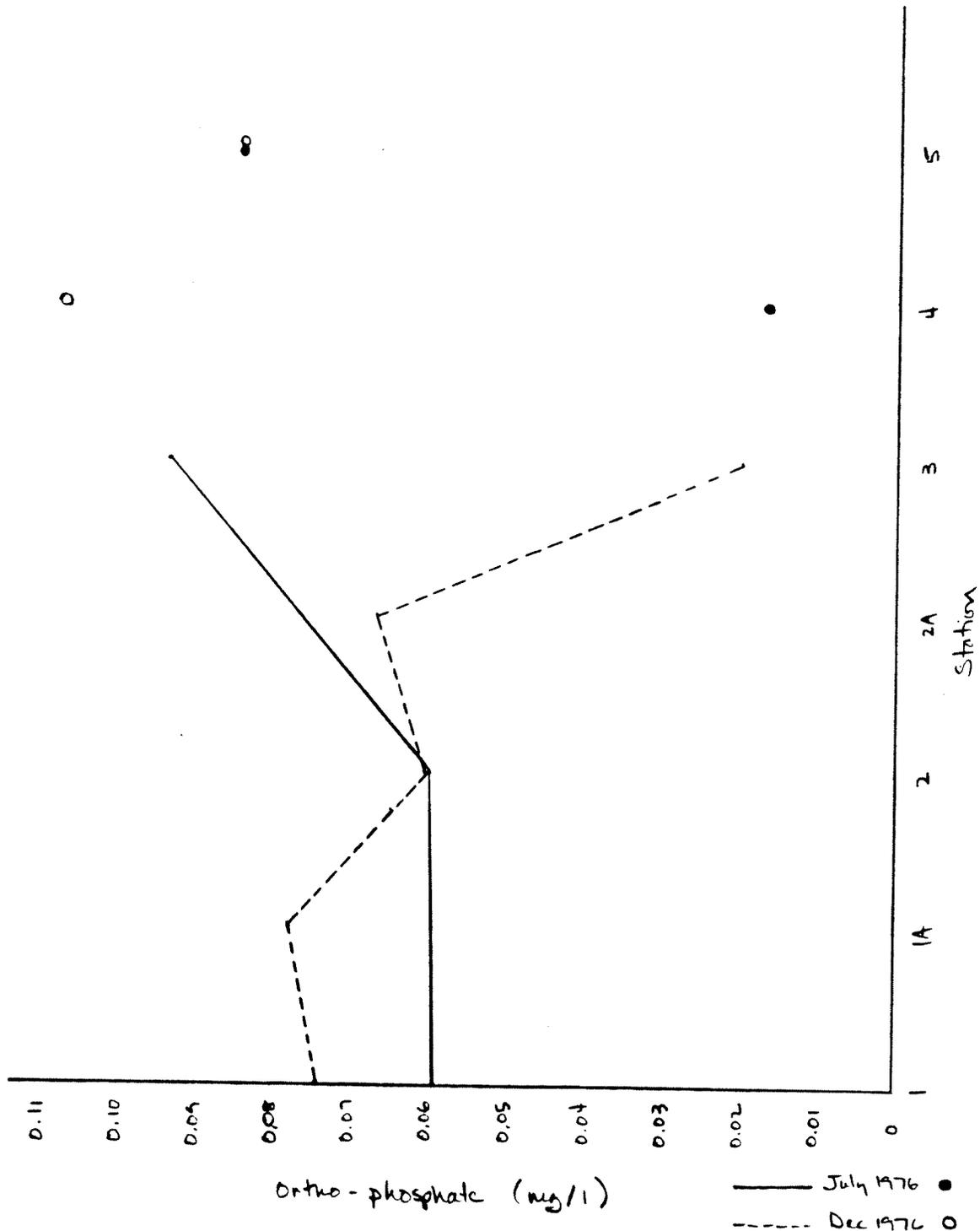
Client: Total Phosphorus



776-1 JOB NO.	DS BY	CHECK	Longfellow Creek Water Quality - Total Phosphorus SUBJECT	8 Feb 77 DATE	10-14 SHEET NO.
------------------	----------	-------	--	------------------	--------------------

Kramer, Chin & Mayo, Inc.

Client: Ortho-Phosphate

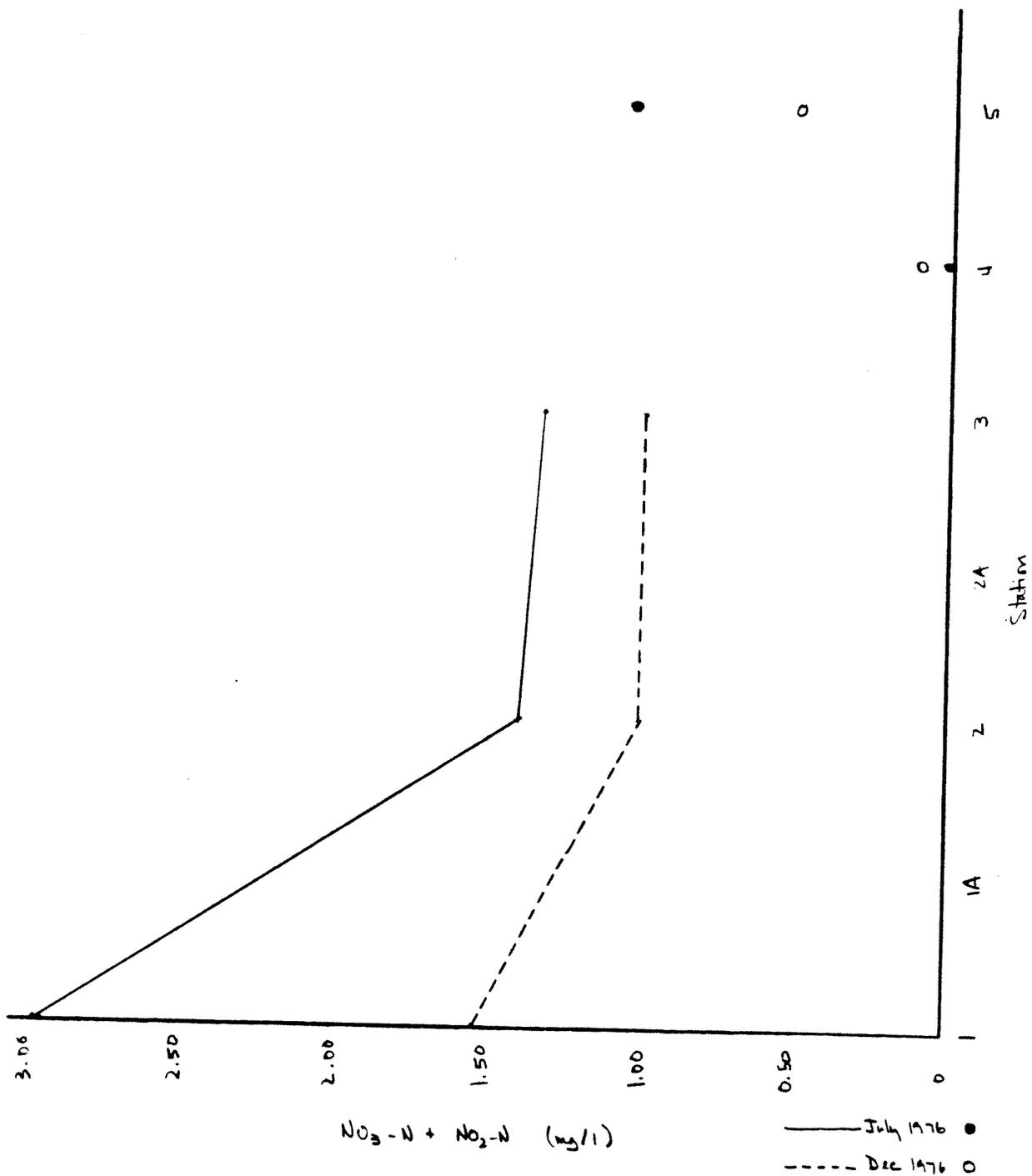


1976-1 JOB NO.	JS BY	CHECK	Longfellow Creek Water Quality - Ortho-phosphate SUBJECT	8 Feb 77 DATE	11-14 SHEET NO.
-------------------	----------	-------	---	------------------	--------------------

Kramer, Chin & Mayo, Inc.

Client: Longfellow

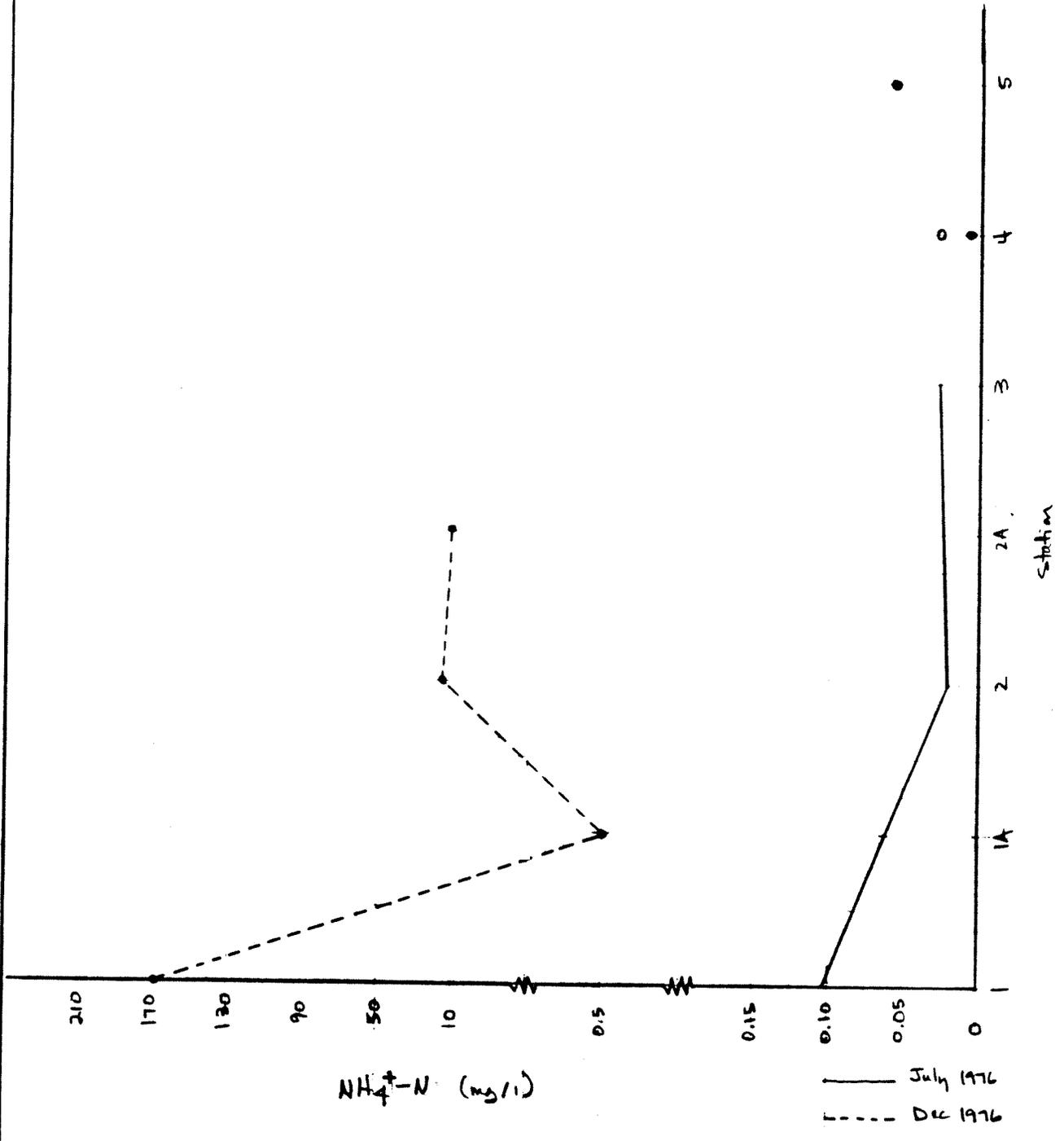
$\text{NO}_3\text{-N} + \text{NO}_2\text{-N}$



776-1 JOB NO	DS BY	 CHECK	Longfellow Creek Water Quality - $\text{NO}_3\text{-N} + \text{NO}_2\text{-N}$ SUBJECT	8 Feb 77 DATE	12-14 SHEET NO.
-----------------	----------	-----------	---	------------------	--------------------

Kramer, Chin & Mayo, Inc.

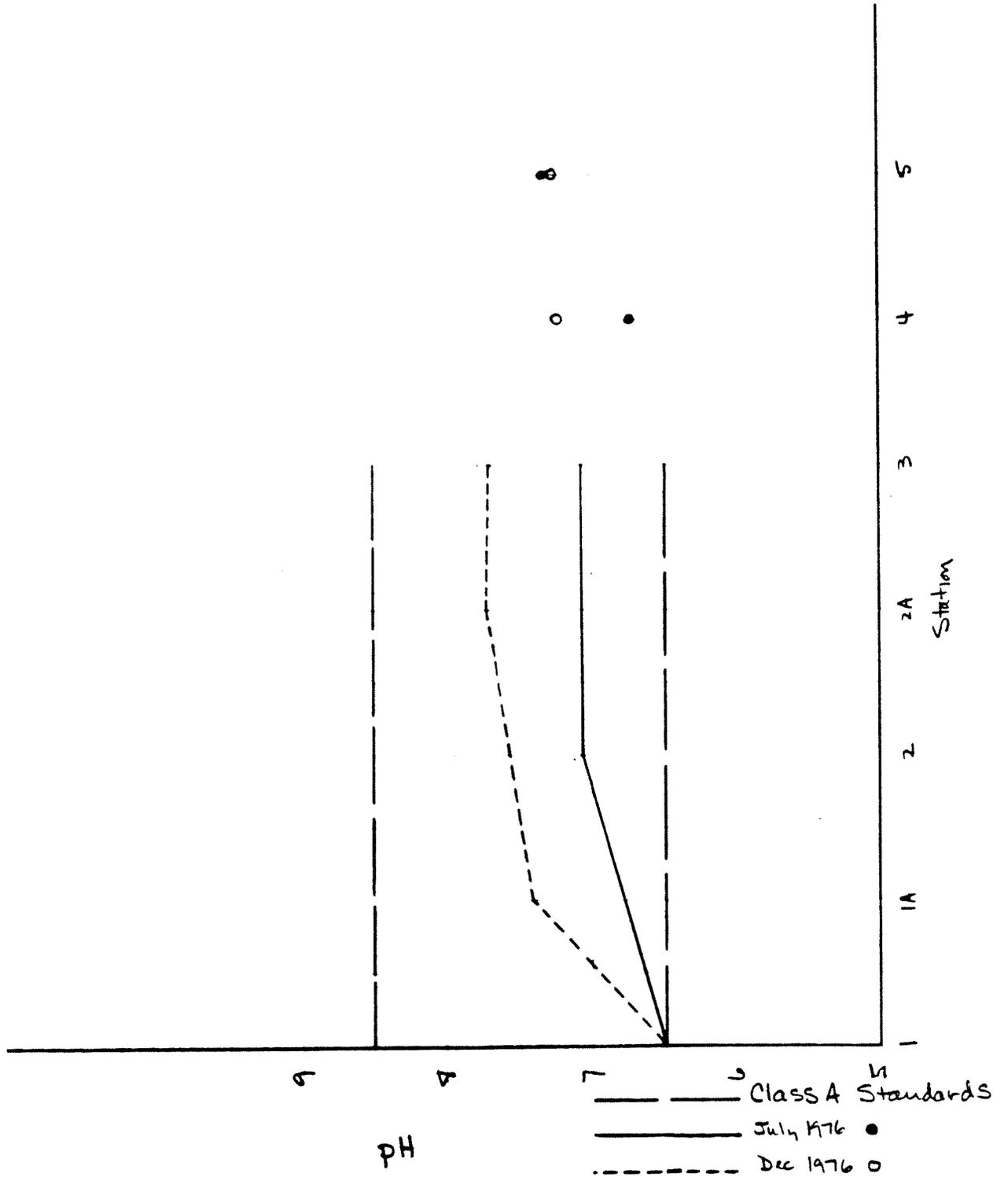
Client: Longfellow NH₃



776-1 JOB NO.	DS BY	CHECK	Longfellow Creek Water Quality - NH ₃ SUBJECT	Feb 77 DATE	13-14 SHEET NO.
------------------	----------	-------	---	----------------	--------------------

Kramer, Chin & Mayo, Inc.

Client: Longfellow - pH



77/2-1 JOB NO.	DS BY	CHECK	Longfellow Creek Water Quality - pH SUBJECT	8 Feb 77 DATE	14-14 SHEET NO
-------------------	----------	-------	--	------------------	-------------------

MUNICIPALITY OF METROPOLITAN SEATTLE
METAL ANALYSIS REPORT (mg/l)

SOURCE Longfellow Creek

DATE SAMPLED 12/15/76

DATE ANALYZED 12/20/76

SAMPLE	Ca	Cd	CN ⁻	Cr ^v	Cu [✓]	Fe [✓]	Hg [✓]	Mg	Ni	Pb [✓]	Zn [✓]
Testsite 1A		<.004		<.008	.011	1.70	<.0002		.02	.24	.176
1B		<.004		<.008	.005	.90	.0002		<.02	.07	.040
2A		<.004		<.008	<.005	.70	<.0002		<.02	.04	.018
3		<.004		.009	<.005	1.37	<.0002		.02	.05	.032
4		<.004		<.008	.082	2.3	<.0002		.04	.04	.038
5*		.034		.069	.068	.44	.0004		.19	.15	.042

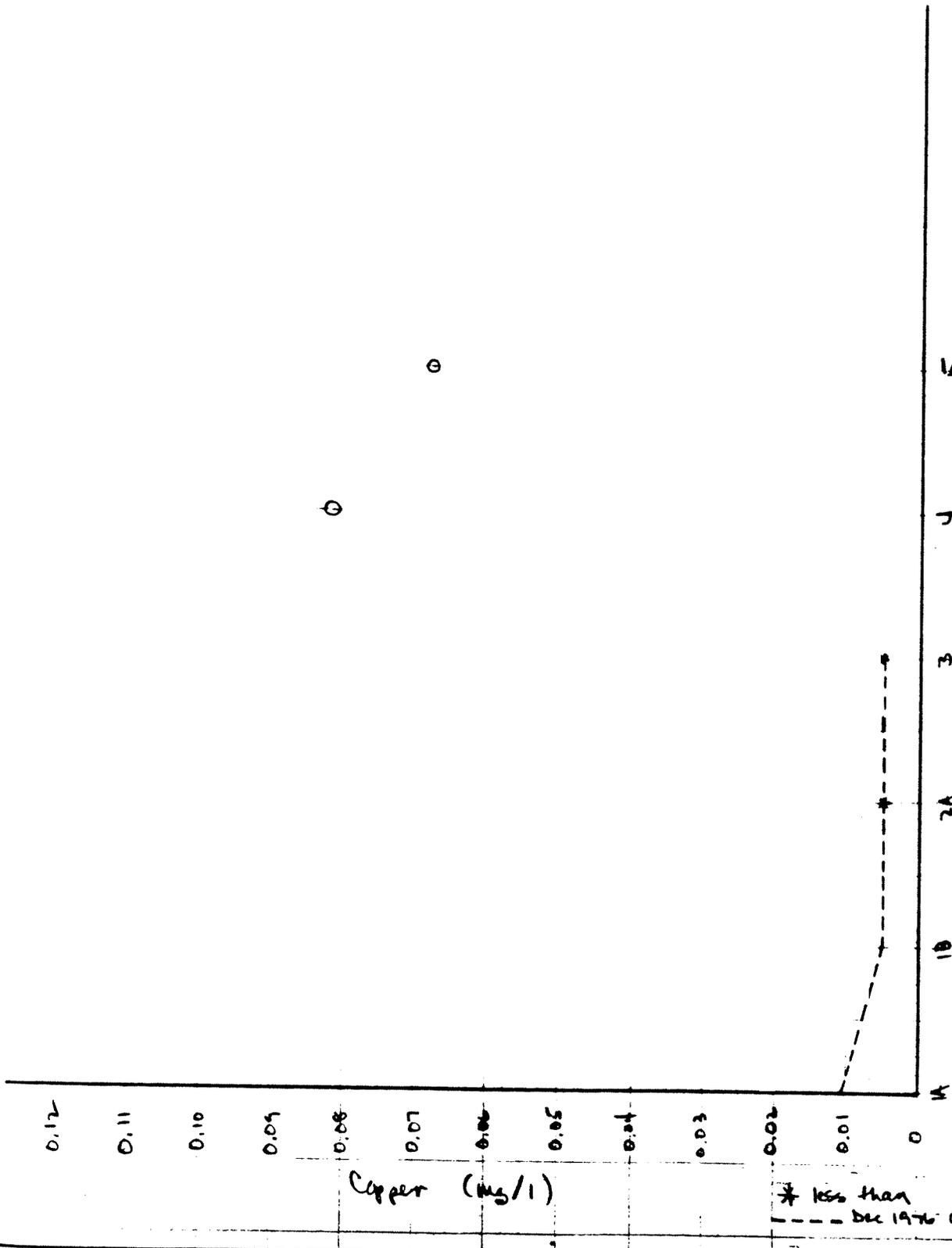
* High Sodium content of this sample may have caused positive interference

FIELD TRANSDUCTION
CALCULATION
KEYLINE

RW
RW

Kramer, Chin & Mayo, Inc.

Client: Longfellow - Copper

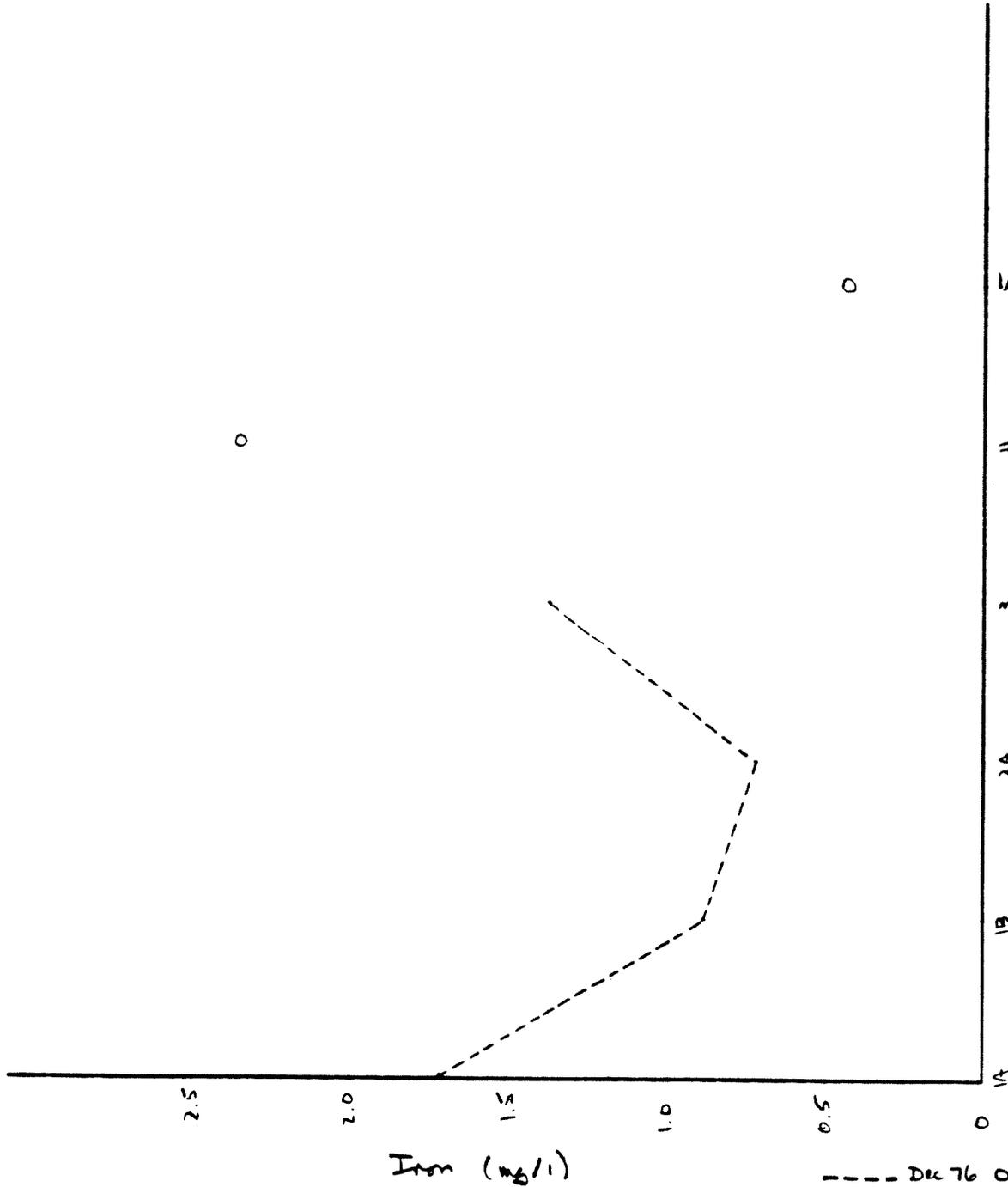


High sodium content of this sample may have caused a positive interference.

776-1 JOB NO.	<i>[Signature]</i> BY	 CHECK	Longfellow Creek Water Quality - Copper SUBJECT	9 Feb 77 DATE	15 SHEET NO.
------------------	--------------------------	-----------	--	------------------	-----------------

Kramer, Chin & Mayo, Inc.

Client: Longfellow - Iron



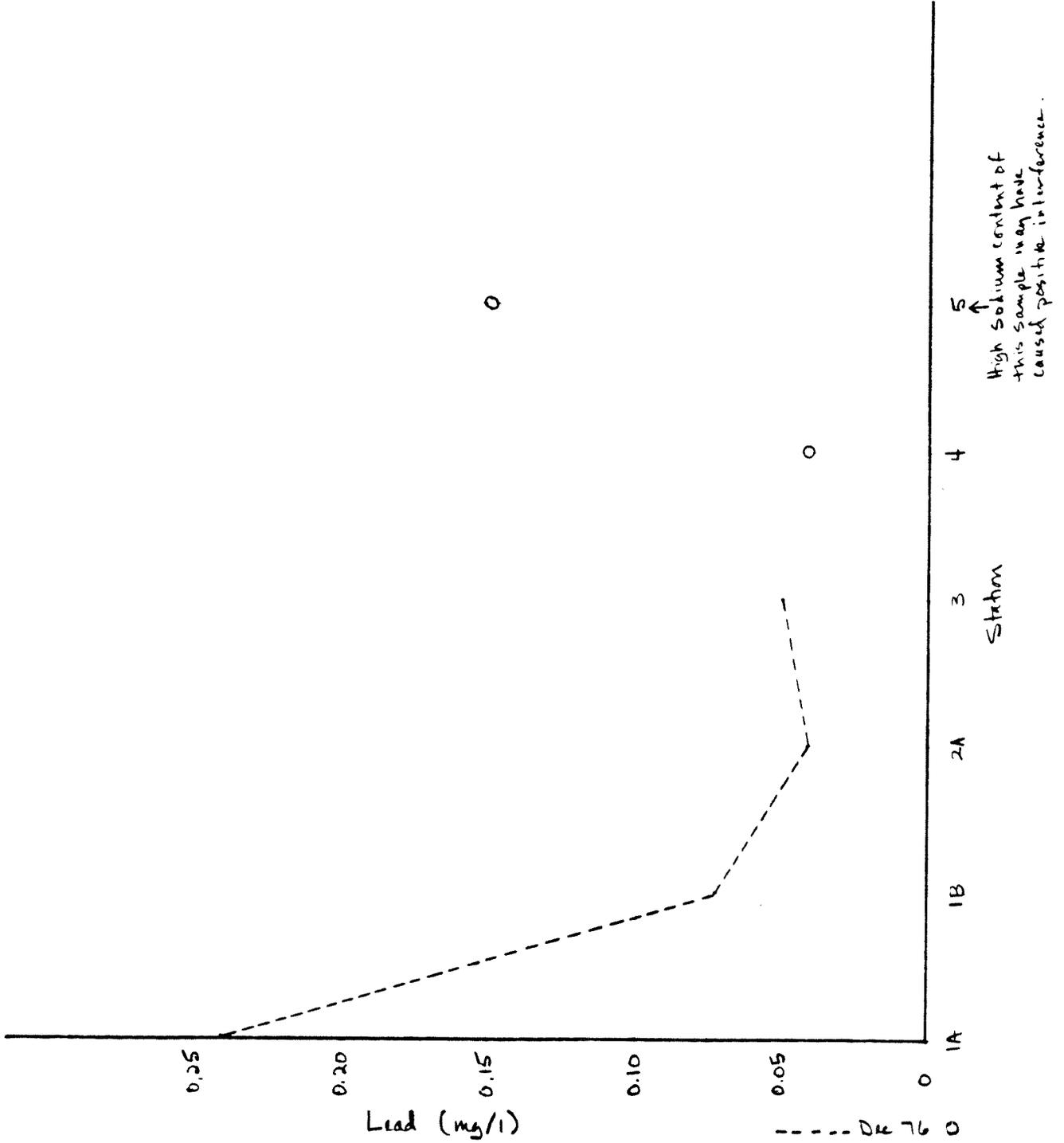
High solution content of this sample may have caused positive interference

--- Dec 76 0

776-1 JOB NO.	DS BY	CHECK	Longfellow Creek Water Quality - Iron SUBJECT	9 Feb 77 DATE	16 SHEET NO.
------------------	----------	-------	--	------------------	-----------------

Kramer, Chin & Mayo, Inc.

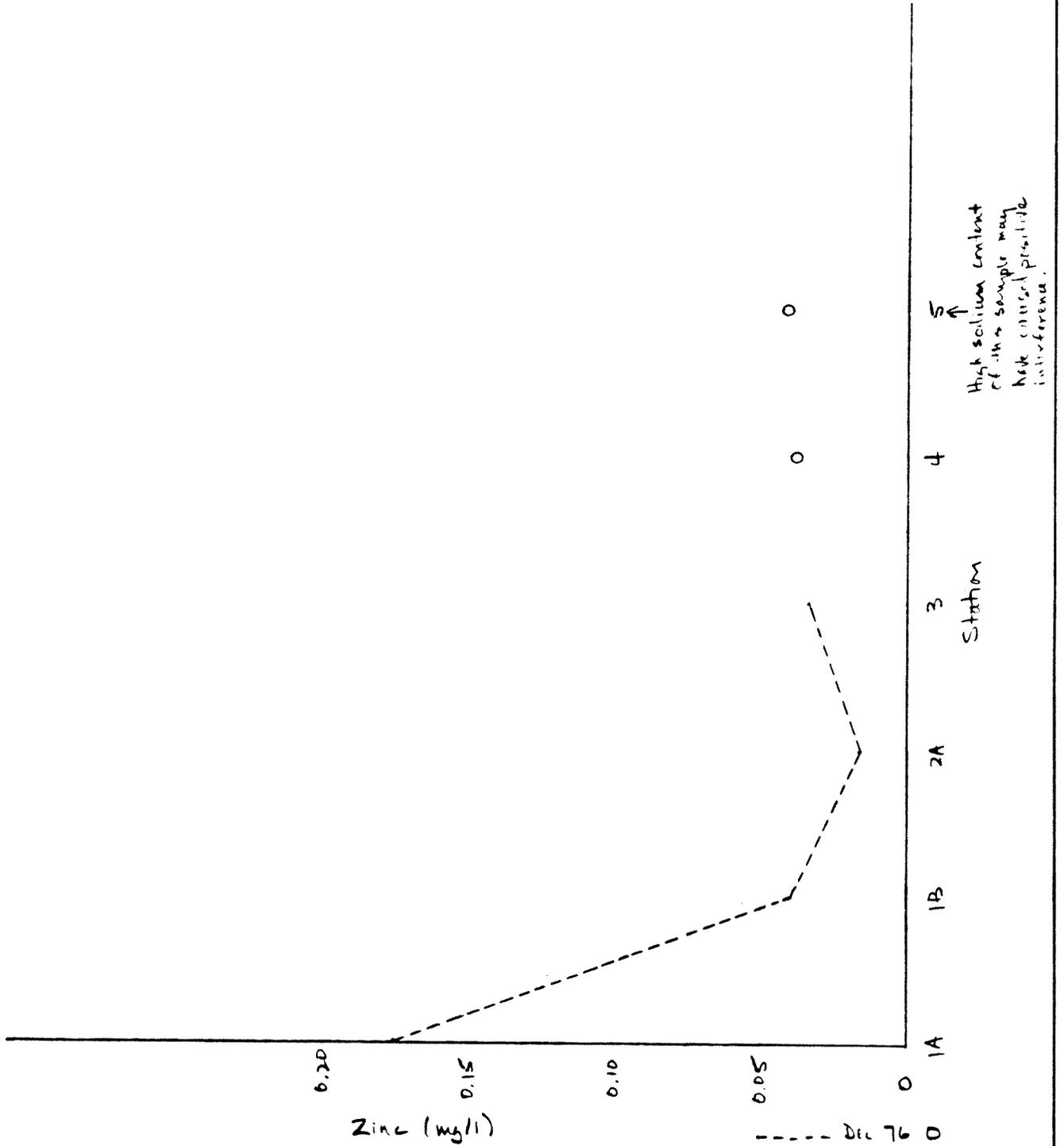
Client: Longfellow Creek - Lead



776-1 JOB NO.	DS BY	CHECK	Longfellow Creek Water Quality - Lead SUBJECT	9 Feb 77 DATE	17 SHEET NO.
------------------	----------	-------	--	------------------	-----------------

Kramer, Chin & Mayo, Inc.

Client: Longfellow - Zinc



TJH-1 JOB NO.	DS BY	CHECK	Longfellow Creek Water Quality - Zinc SUBJECT	Dec 76 DATE	18 SHEET NO.
------------------	----------	-------	--	----------------	-----------------