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LONGFELLOW CREEK REHABILITATION STUDY

APPENDIX: WATER QUALITY DATA

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LONGFELLOW CREEK STUDY

WATER QUALITY APPENDIX

12/15/76

WATER QUALITY
Suspended and Volatile Solids

ource: [illegible] Creek
c her:

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

Station	1	1B	2A	3	4	5								
ruc. No.	05	133	73	d *	131	Blank *								
olume	150	150	150	150	150	150								
t. Total	17. 879	15. 6105	16. 0395	17. 7471	15. 6216	16. 7646								
t. Cruc.	17. 052	15. 6079	18. 2369	17. 7459	15. 6194	16. 7603								
t. Sol.	027	0026	0026	0012	0022	0043								
g/l Sol.														

Station														
lt No.														
olume														
t. Total														
t. Cruc.														
t. Sol.														
g/l Sol.														

Volatile Solids

re-Ign. ruc. Wt.														
ost-Ign. ruc. Wt.														
t. Sol.														
g/l Sol.														
ercent olatile											102 14334 2057			

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Dec. 1976

Site #	DO	BOD	Turb.	Cond.	Alkalinity	Total Coli	Fecal Coli	Fecal Strep	Susp. Solids	Total phosph	Ortho PO_4	NO_3 N	NH_3	pH
1 Smith		#388 2.4	18 (3)	210	5.57 5.82	191	67	55	18 mg/l .0027	.140	.074	1.530	169	6.5
1A Myrtle	5.78	#60 7.85	4.5	227	8.32 8.58				17 mg/l .0026	.115	.078		.5	7.4
Brandon 2 Brandon	12.22					49	36	53		.090	.061	1.022	16.4	
2A Golf	11.40		3.6	235	10.28 10.52	133	660	72	17 mg/l .0026		.067		12.4	7.7
3 Beth	8.41		4.9	225	7.89 8.10	118	1500	35	8 mg/l .0012	.086	.020	1.006		7.6
Beth steel oil separator 4 outfall to pond (1st [illegible])	10.50	#39 7.07	6.8	142	3.40 3.53	25	–	35	15 mg/l .0022	.053	.108	.114	.028	7.24
5 Duwamish	7.89	#176 7.08	3.6	20,000	8.38 8.63	121	96	76	.0043 / 50 mls (g/150 mls) needs calculation	.127 mg/L	.085 mg/L	.519 mg/L	mg/L	7.3

p.p.m.

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

July 1976

Sec. #	DO	BOD	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Total Phosphates	[illegible] PO_4	[illegible]	[illegible]	NH_3	pH	A.A. Nut Conc NO_3
1	7.69	3.2	1.5	275	3.5				.156	.059		1.8	.103	6.5	2.95
2	10.60	.9	1.5	260	9.71 / 9.42				.188	.060		1.4	.019	7.1	1.40
3	11.12	2.1	2.8	270	3.42 / 3.60				.189	.094		3.1	.026	7.1	1.31
4	9.0	2.7	6.1	97	3.43 / 3.68				.108	.017		9.0	.006	6.7	0.006
5	9.90	1.5	2.0	13900	10.32				A- .181 B- .138 .160	.085		4.1	.061	7.35	1.05
	pp.m.	Mg/L							ML/L	Mg/L		Mg/L Sol.	Mg/L		Mg/L

see original data.

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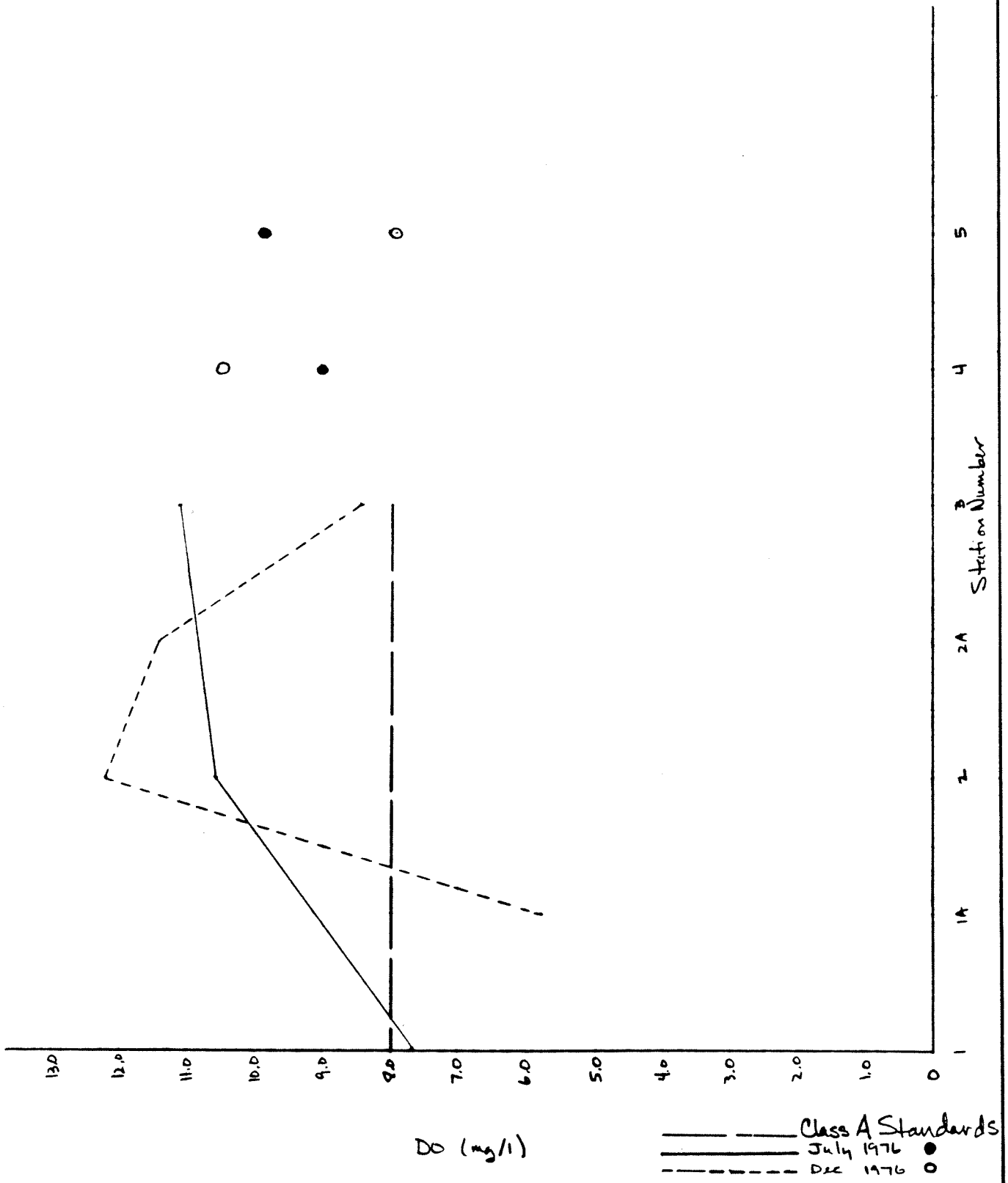
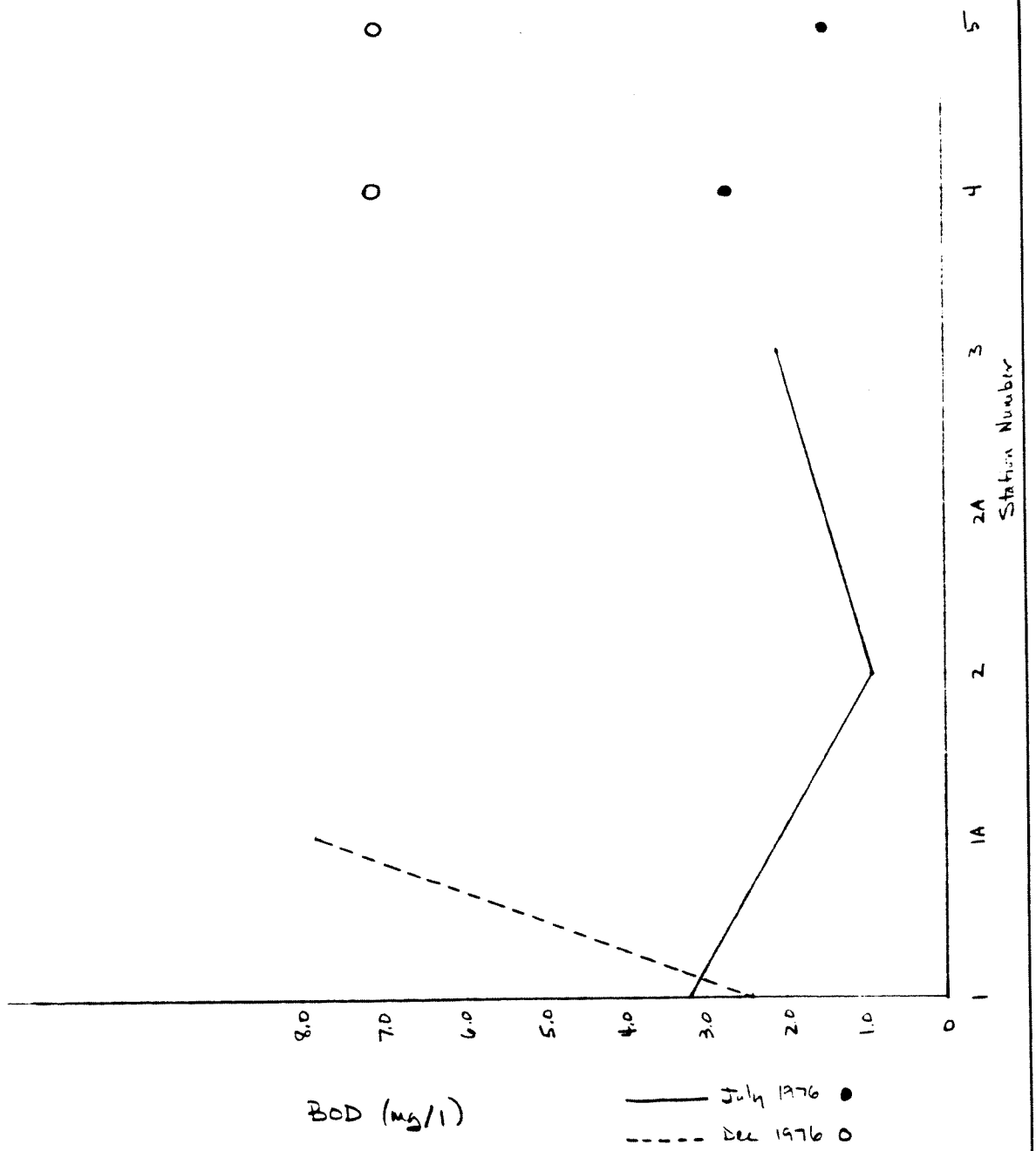
Client:



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

Kramer, Chin & Mayo, Inc.

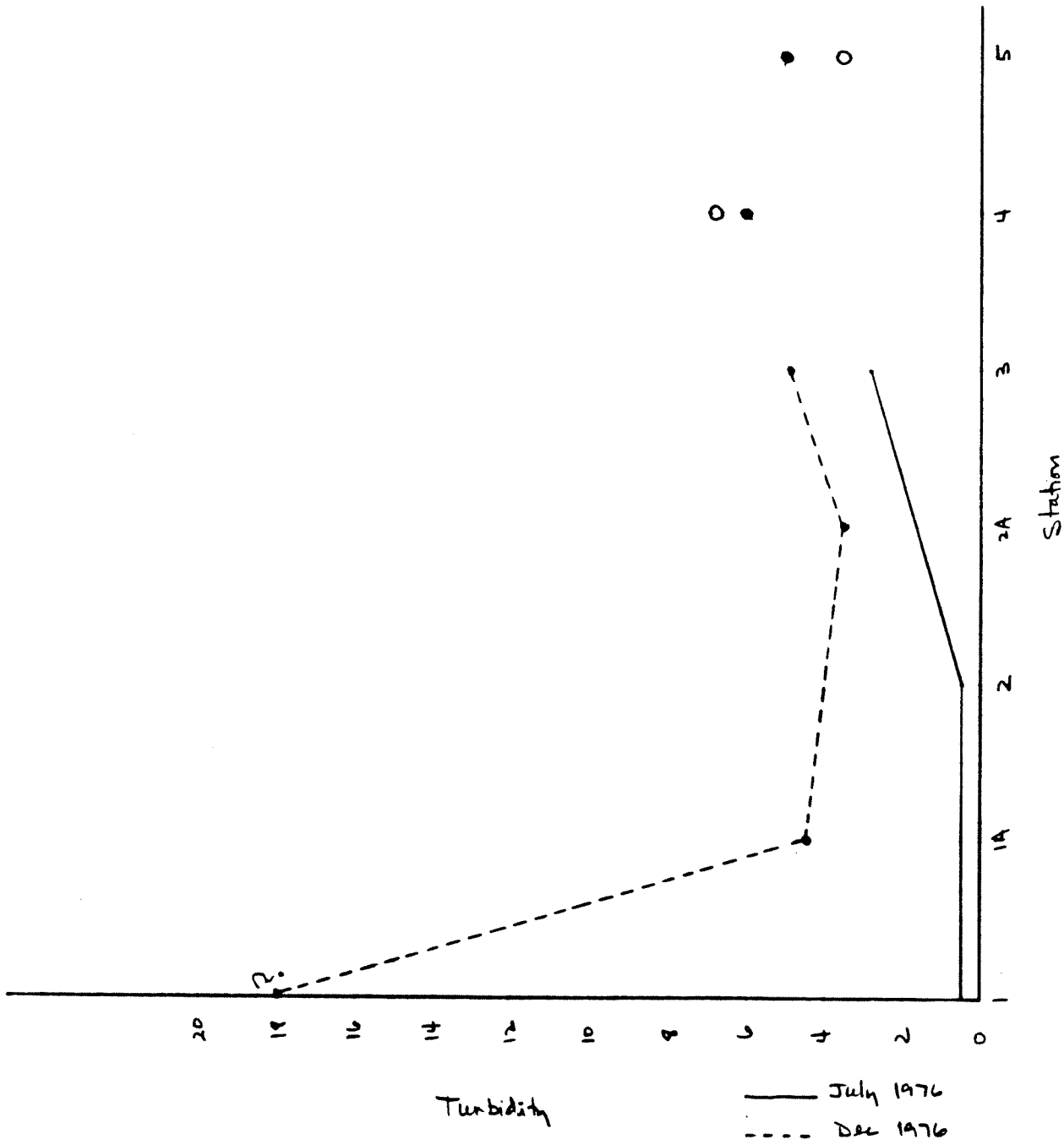
~~Client:~~ BOD



JOB NO.	BY	CHECK	SUBJECT	DATE	SHEET NO.
			Longfellow Creek Water Quality - BOD	8 Feb 77	2-14

Kramer, Chin & Mayo, Inc.

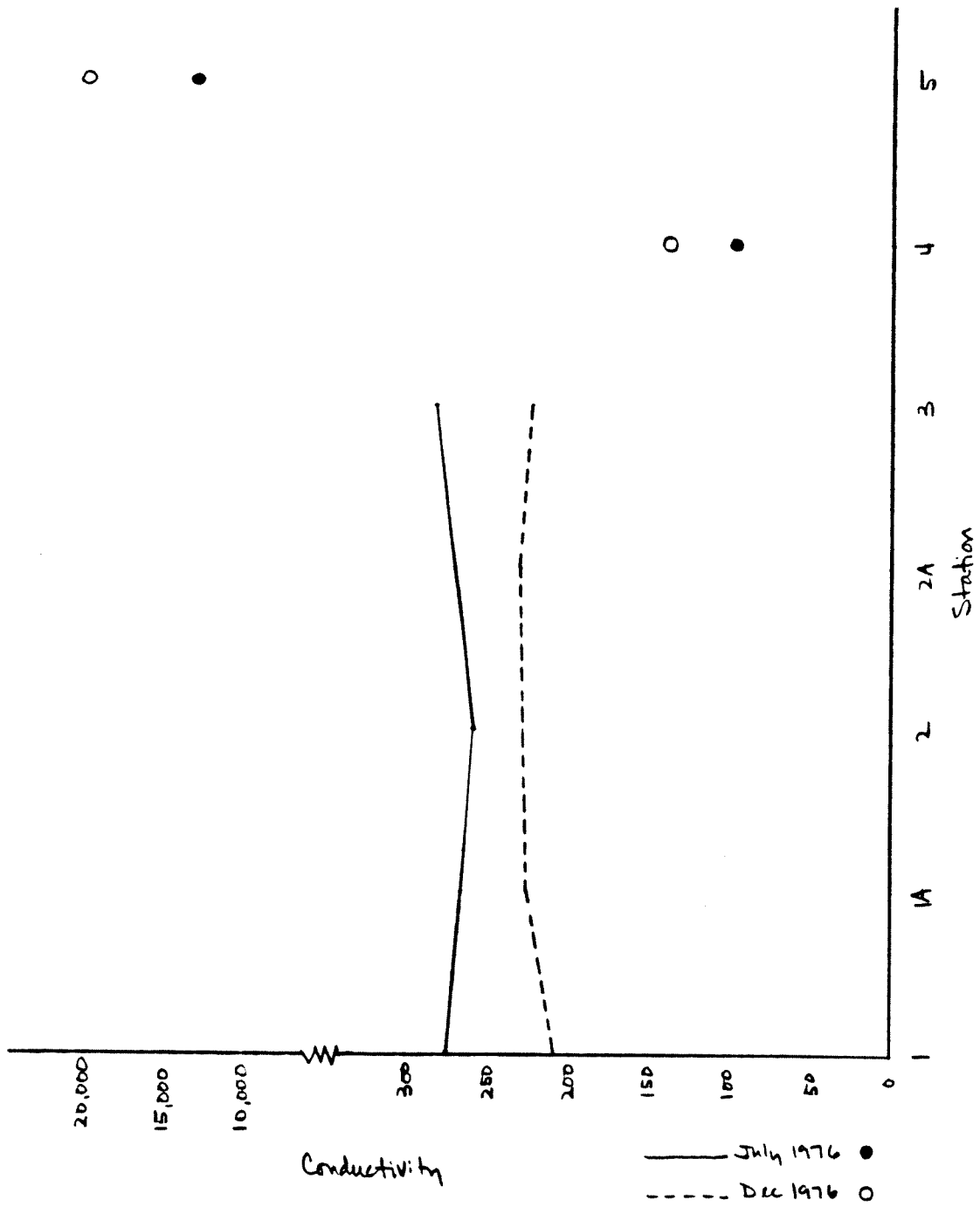
~~Client:~~ Turbidity



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

Kramer, Chin & Mayo, Inc.

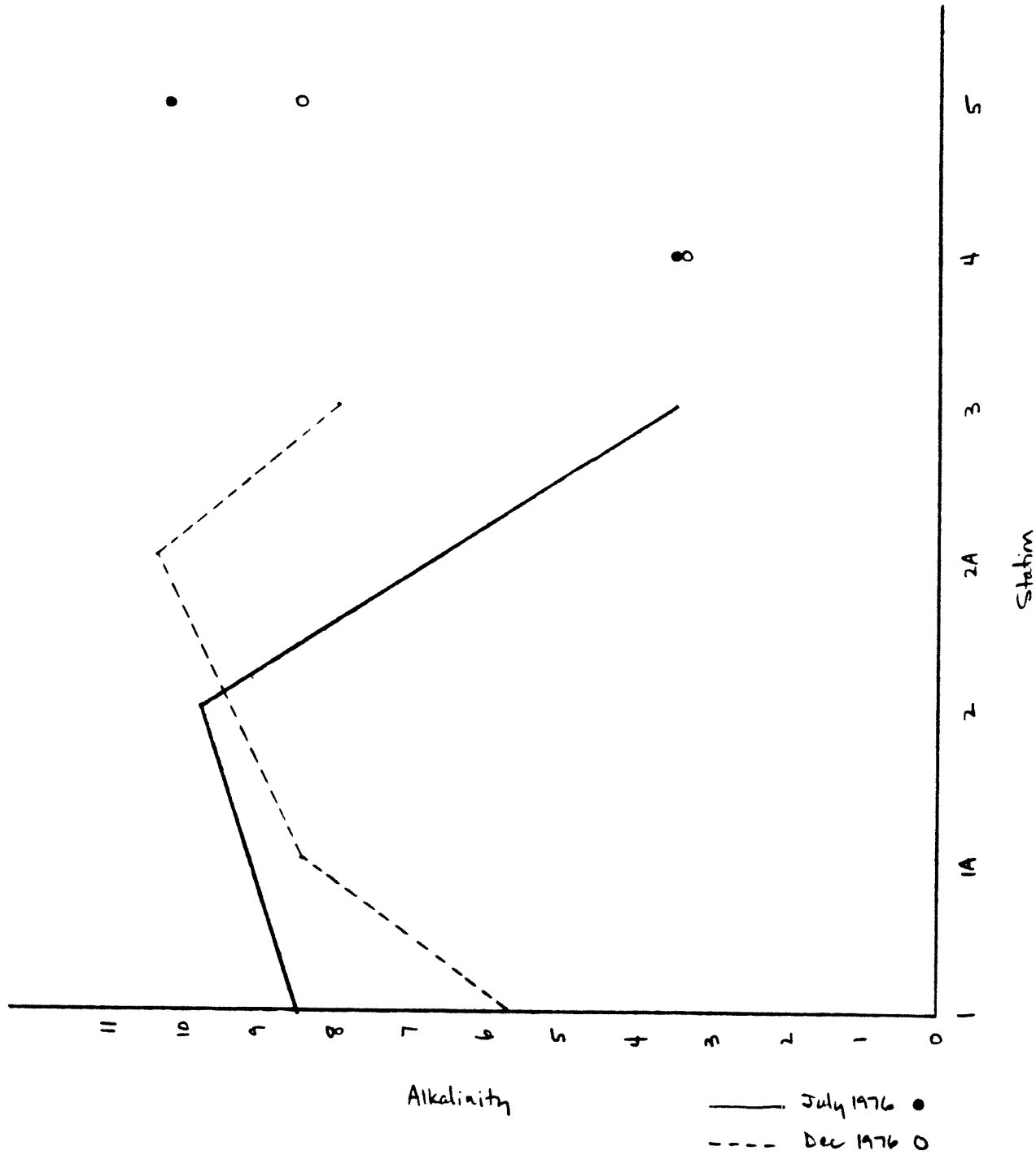
~~Client:~~ Conductivity



776-1	DS		Longfellow Creek Water Quality - Conductivity	8 Feb 77	4-14
JOB NO.	BY	CHECK	SUBJECT	DATE	SHEET NO.

Kramer, Chin & Mayo, Inc.

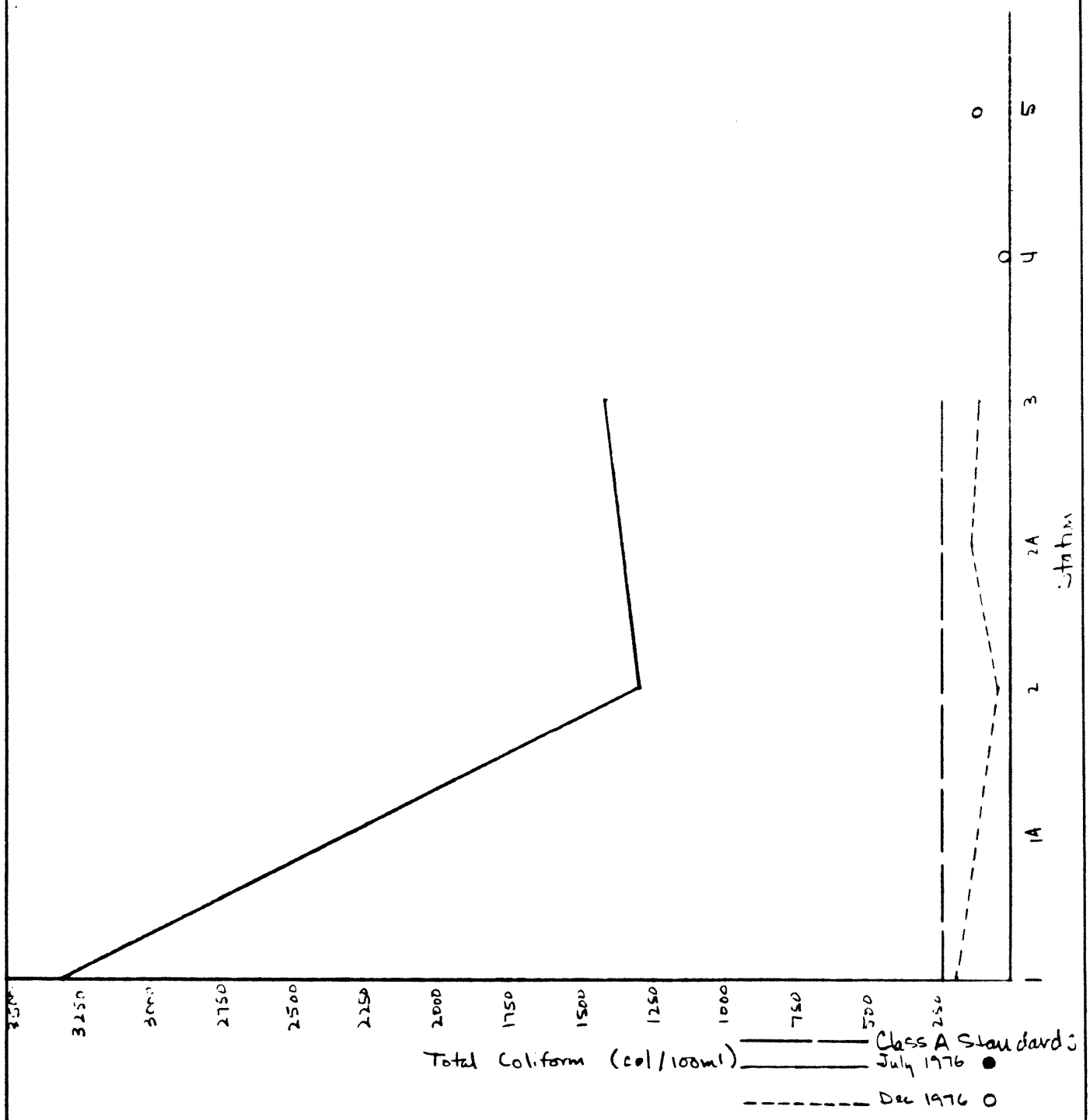
~~Client:~~ Alkalinity



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

Kramer, Chin & Mayo, Inc.

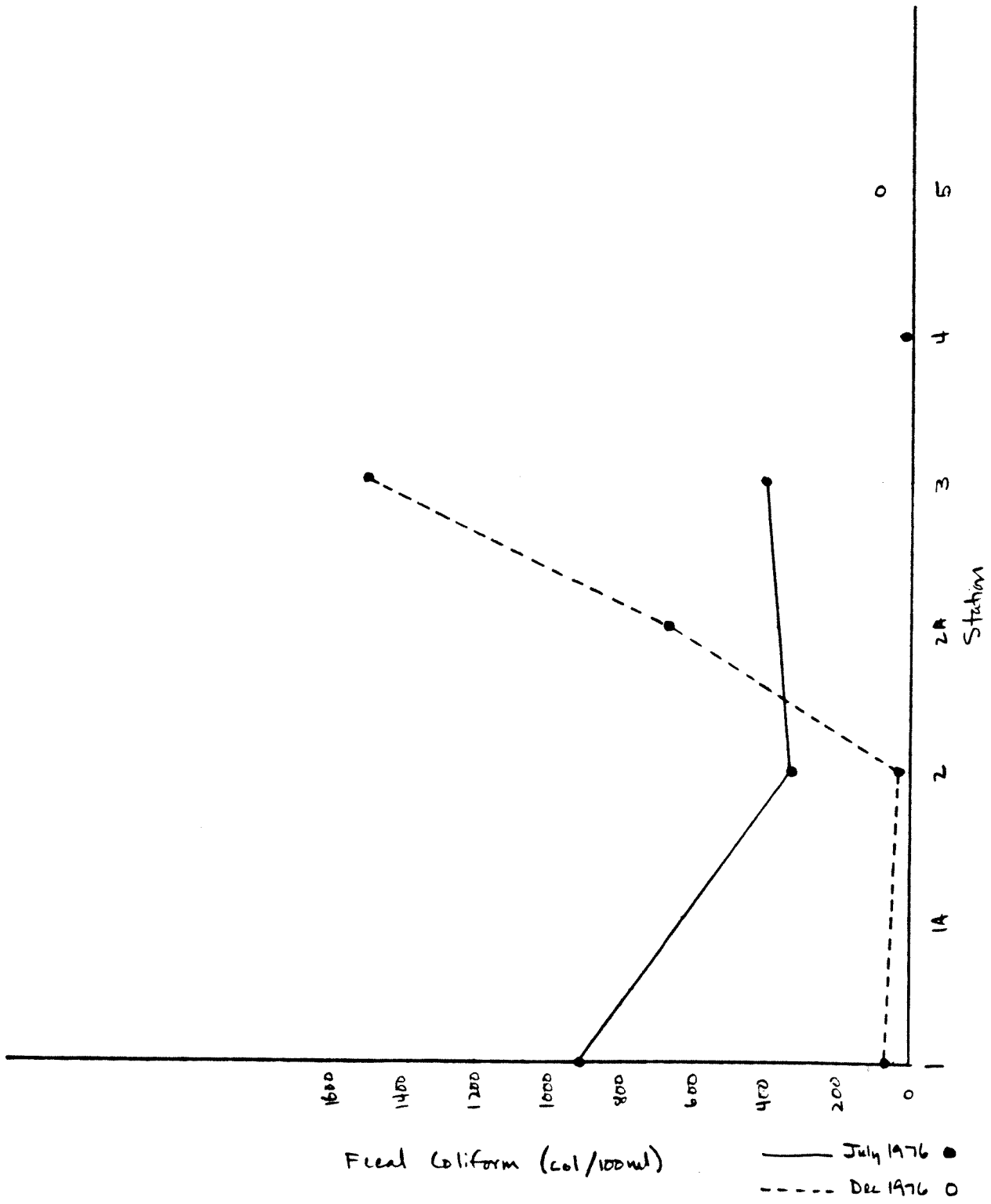
~~Client:~~ Total Coliform



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

Kramer, Chin & Mayo, Inc.

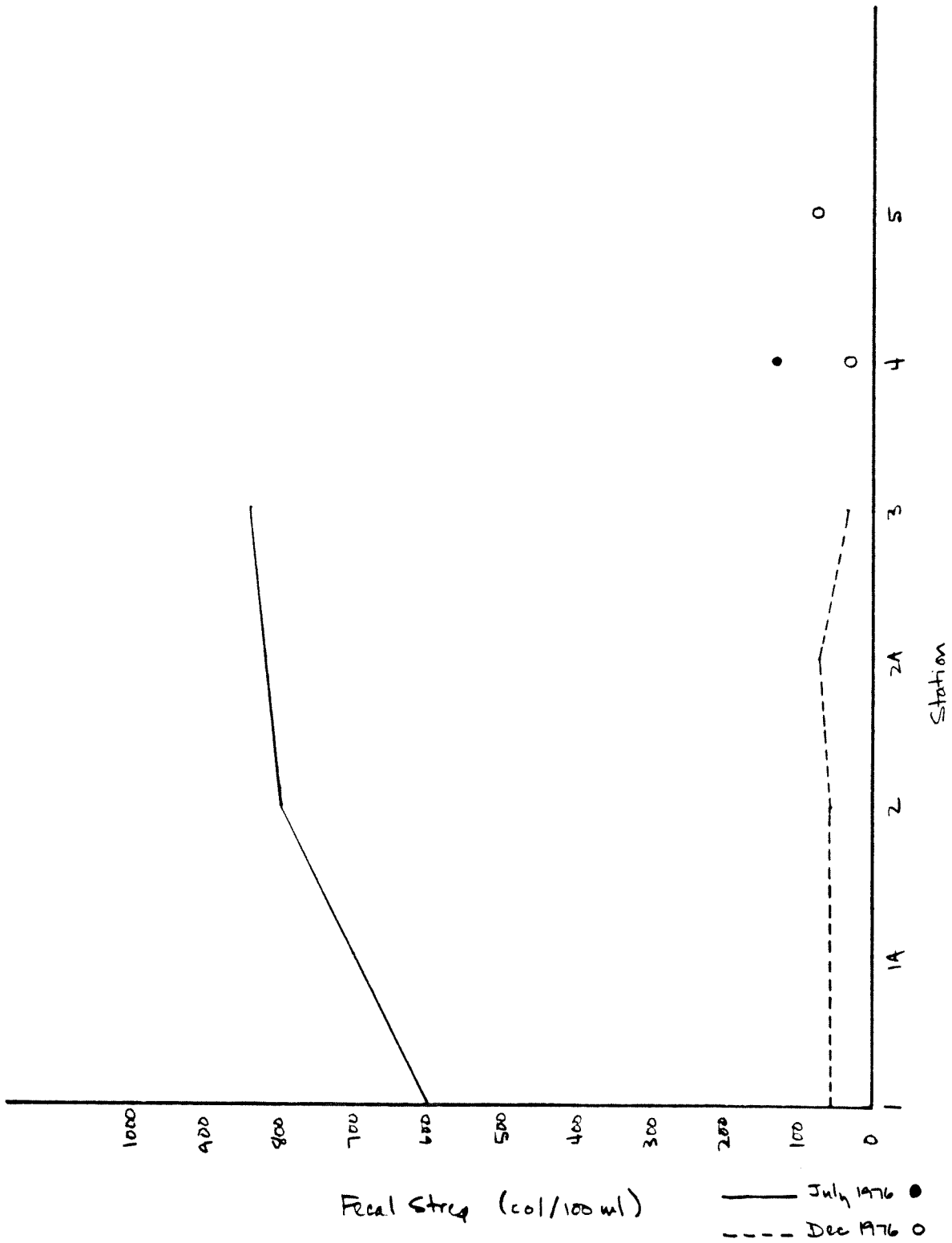
~~Client:~~ Fecal Coliform



776-1	DS		Longfellow Creek Water Quality - Fecal Coliform	8 Feb 77	7-14
JOB NO.	BY	CHECK	SUBJECT	DATE	SHEET NO.

Kramer, Chin & Mayo, Inc.

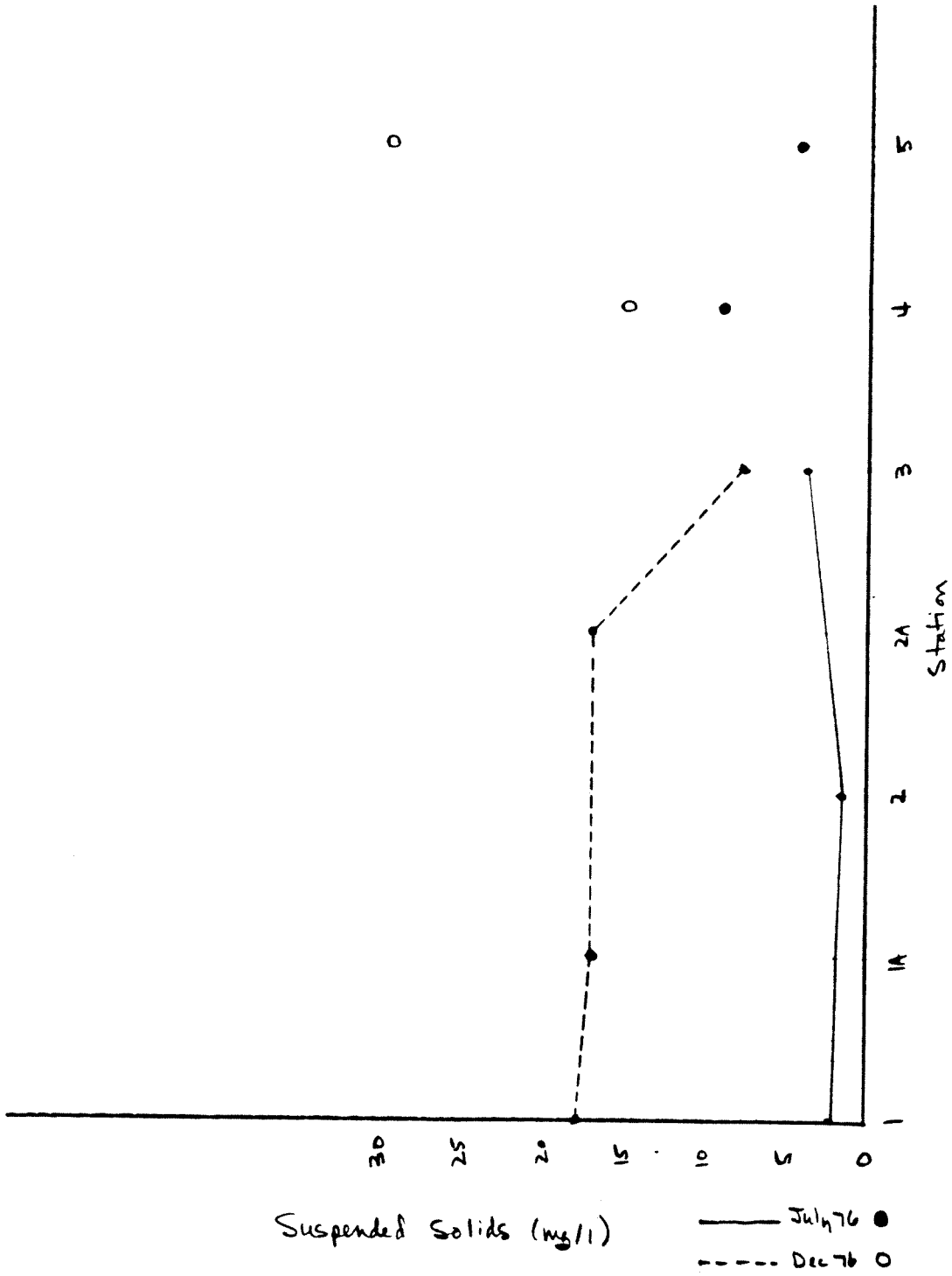
~~Client:~~ Fecal Strep



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

Kramer, Chin & Mayo, Inc.

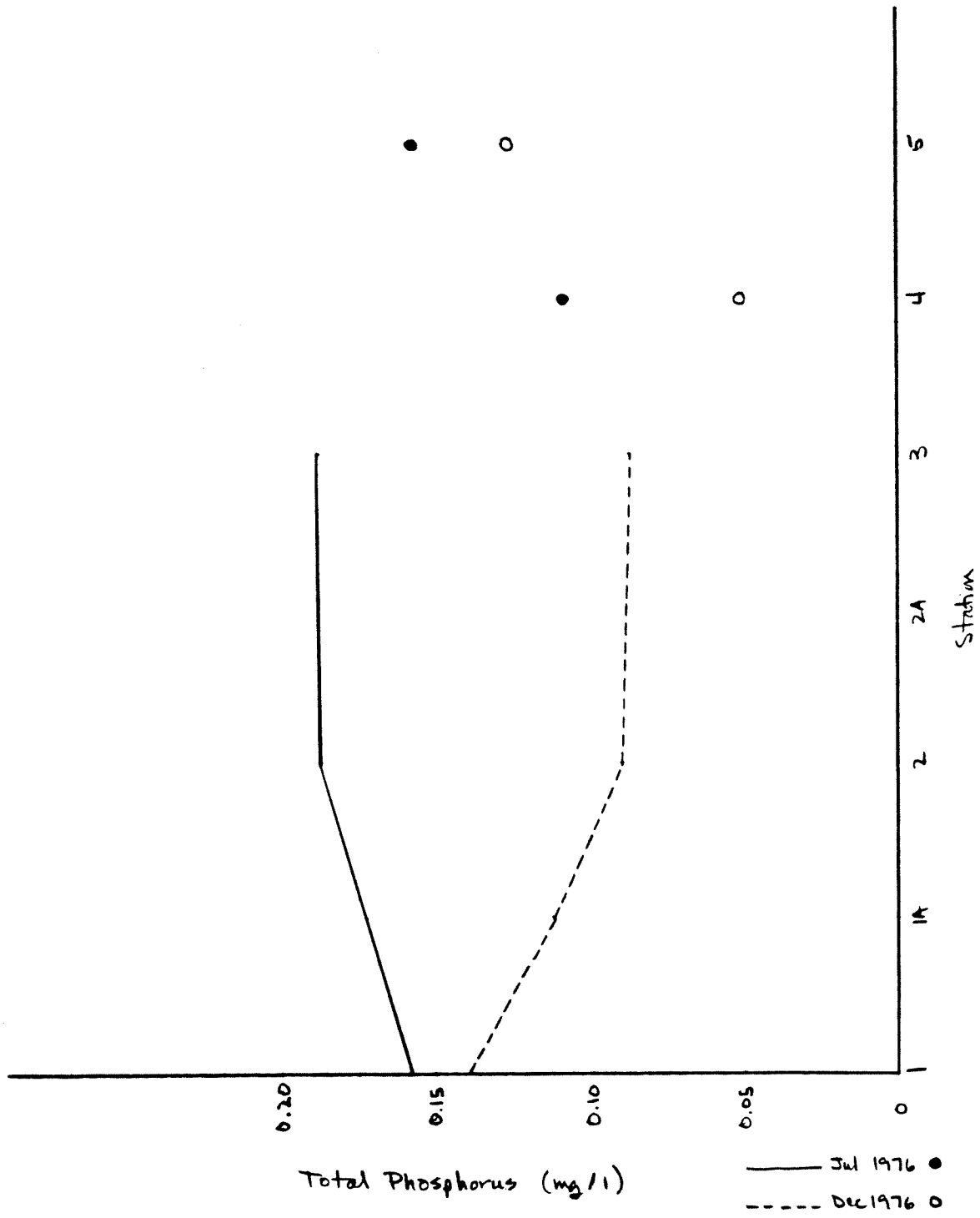
~~Client:~~ Suspended Solids



776-1	DS		Longfellow Creek Water Quality - Sus. Solids	8 Feb 77	9-14
JOB NO.	BY	CHECK	SUBJECT	DATE	SHEET NO.

Kramer, Chin & Mayo, Inc.

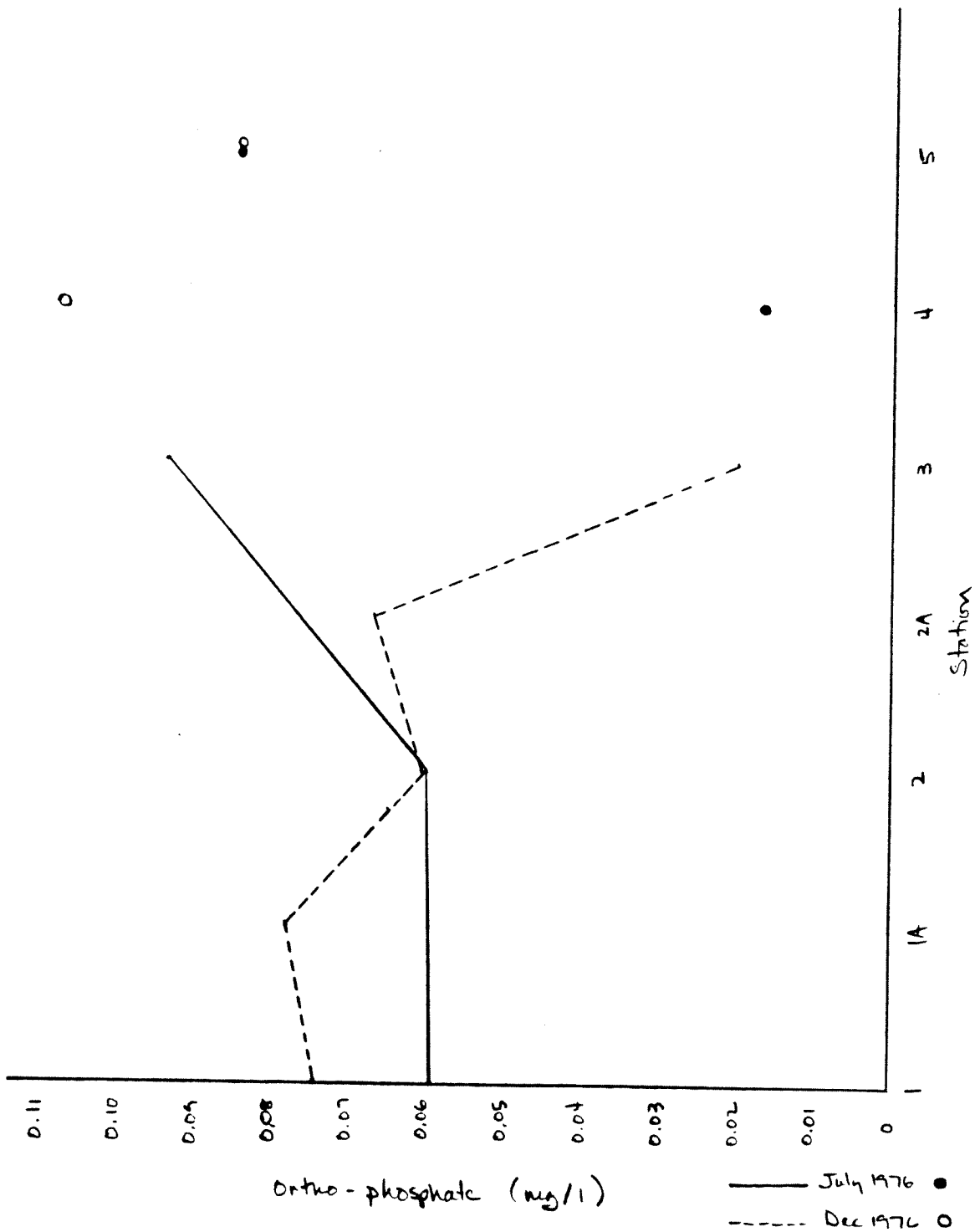
~~Client:~~ Total Phosphorus



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

Kramer, Chin & Mayo, Inc.

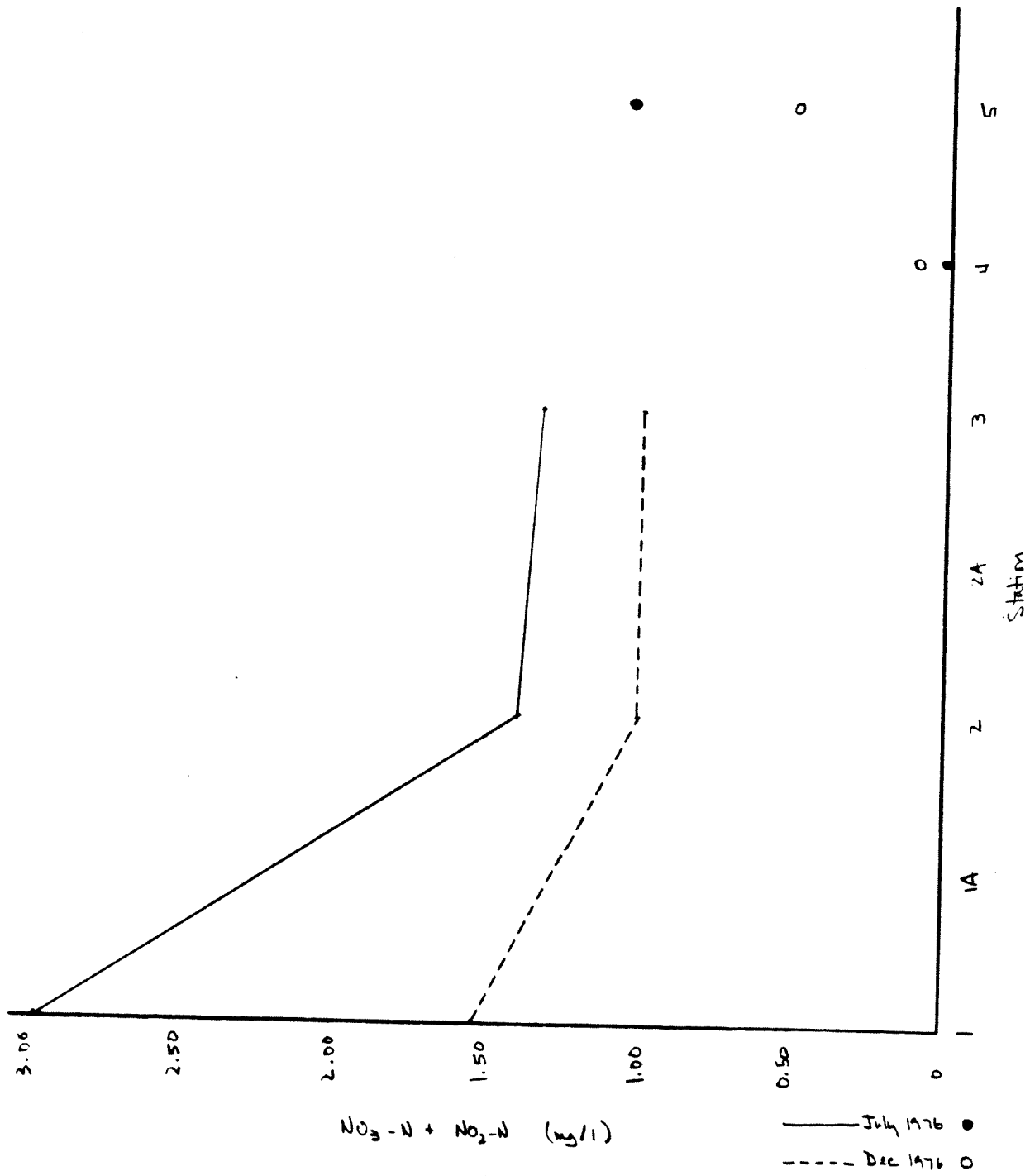
~~Client:~~ Ortho-Phosphate



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

Kramer, Chin & Mayo, Inc.

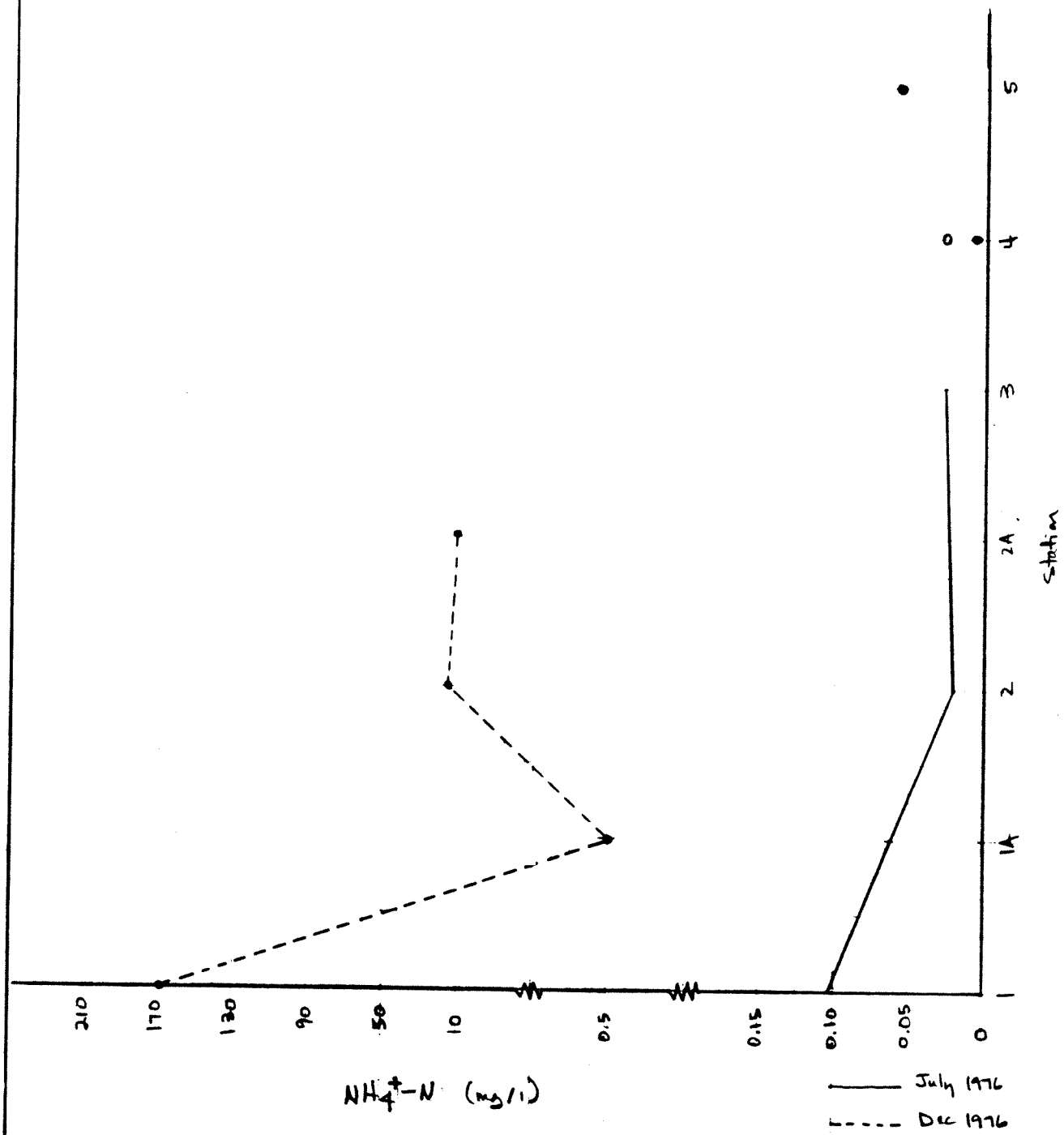
Client: Longfellow $NO_3-N + NO_2-N$



776-1	DS		Longfellow Creek Water Quality - $NO_3-N + NO_2-N$	8 Feb 77	12-14
JOB NO	BY	CHECK	SUBJECT	DATE	SHEET NO.

Kramer, Chin & Mayo, Inc.

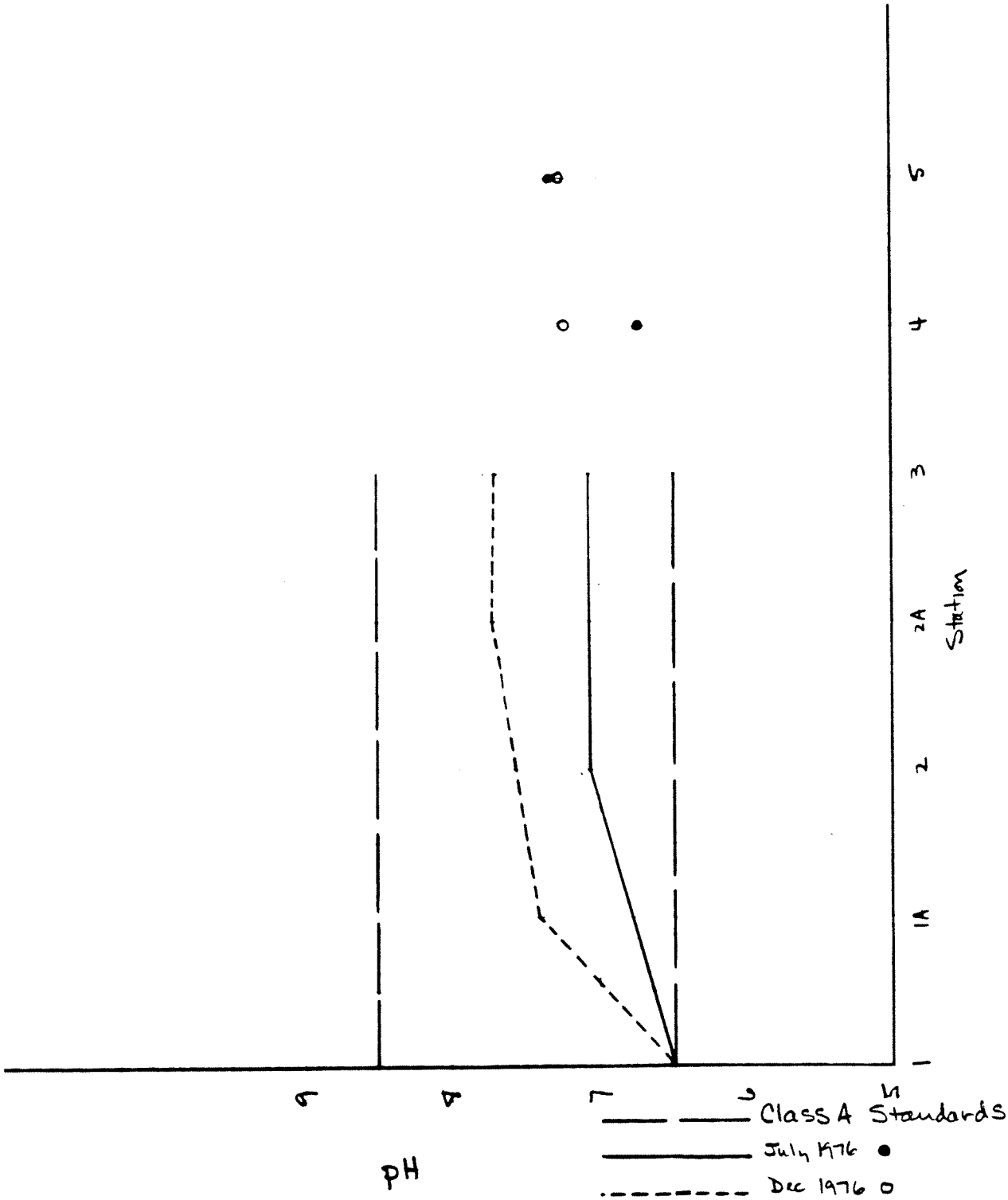
Client: Longfellow NH_3



77k-1	DS		Longfellow Creek Water Quality – NH_3	R Feb 77	13-14
JOB NO.	BY	CHECK	SUBJECT	DATE	SHEET NO.

Kramer, Chin & Mayo, Inc.

~~Client:~~ Longfellow - pH



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

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

SOURCE Longfellow Creek

DATE SAMPLED 12/15/76

DATE ANALYZED 12/20/76

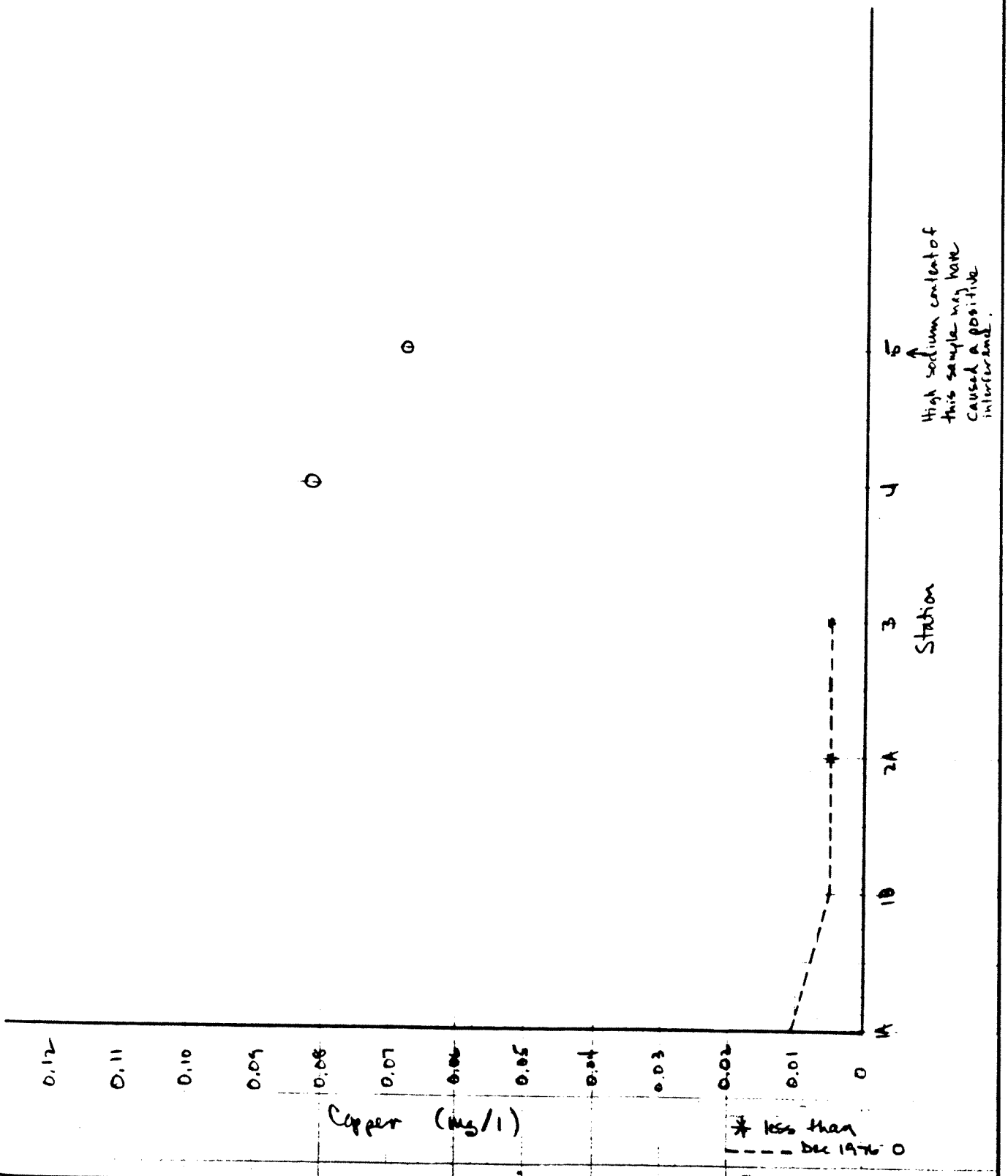
SAMPLE	Ca	Cd	CN⁻	Cr	Cu	Fe	Hg	Mg	Ni	Pb	Zn
Testsite 1A		<.004		<.008	.011	1.70	<.0002		.02	.24	.176
1B		<.004		<.008	.005	.90	.0002		<.02	.07	.040
2A		<.004		<.008	<.005	.70	<.0002		<.02	.04	.018
3		<.004		.009	<.005	1.37	<.0002		.02	.05	.032
4		<.004		<.008	.082	2.3	<.0002		.04	.04	.038
5*		.034		.069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

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

TRANSCRIPTION RW
CALCULATION RW
KEYLINING

Kramer, Chin & Mayo, Inc.

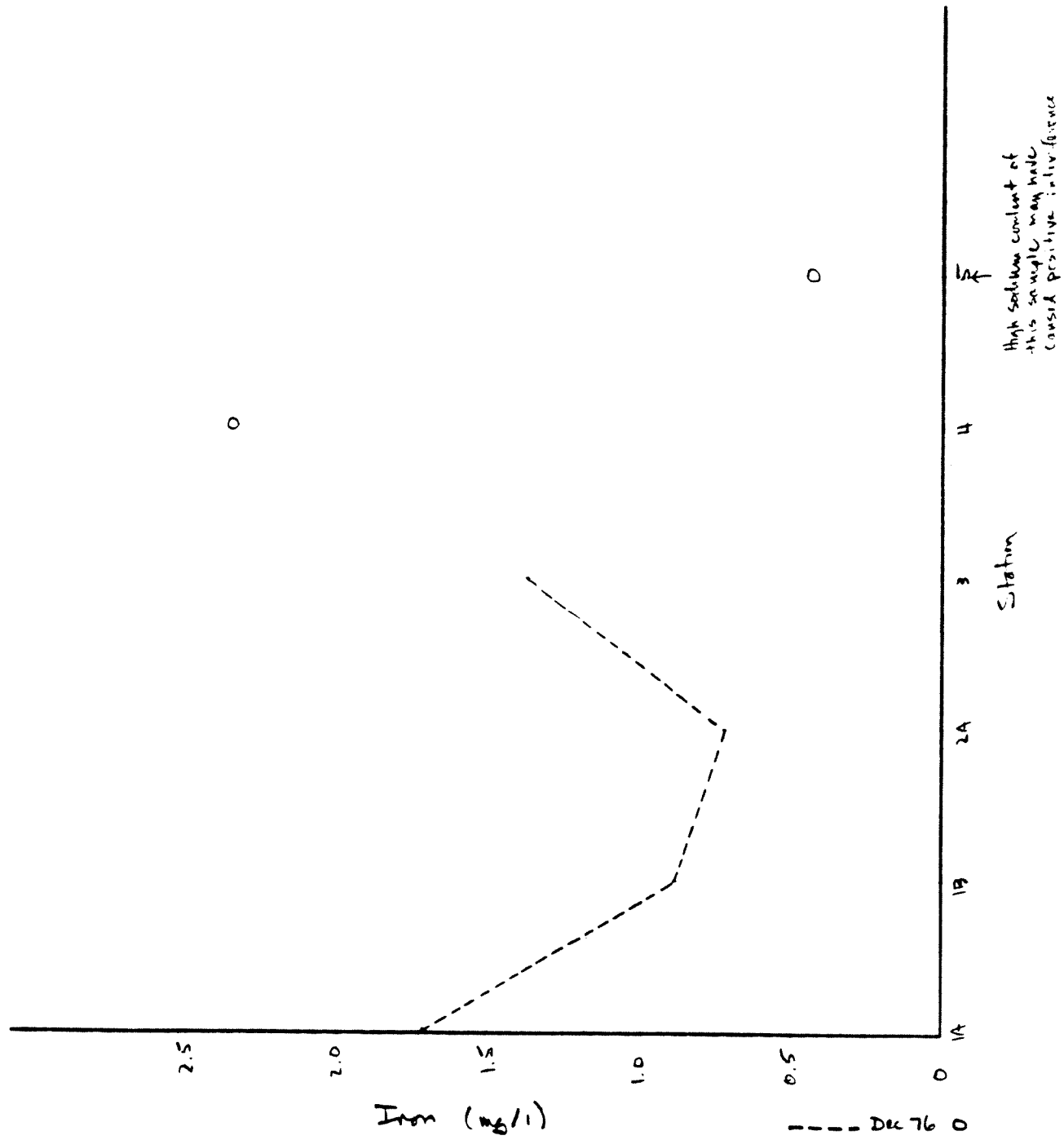
Client: Longfellow - Copper



776-1	DS		Longfellow Creek Water Quality - Copper	9 Feb 77	15
JOB NO.	BY	CHECK	SUBJECT	DATE	SHEET NO.

Kramer, Chin & Mayo, Inc.

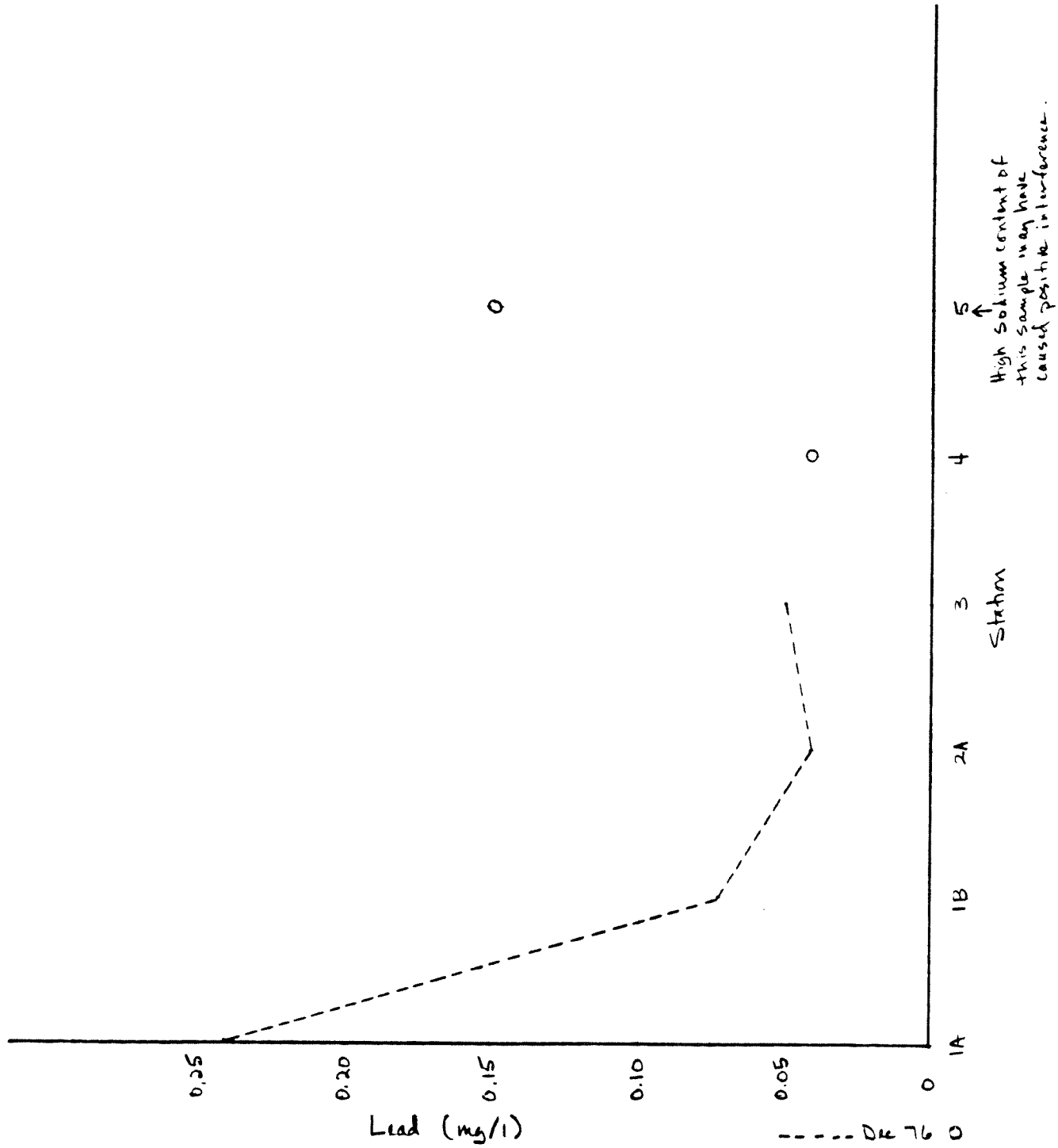
Client: Longfellow - Iron



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

Kramer, Chin & Mayo, Inc.

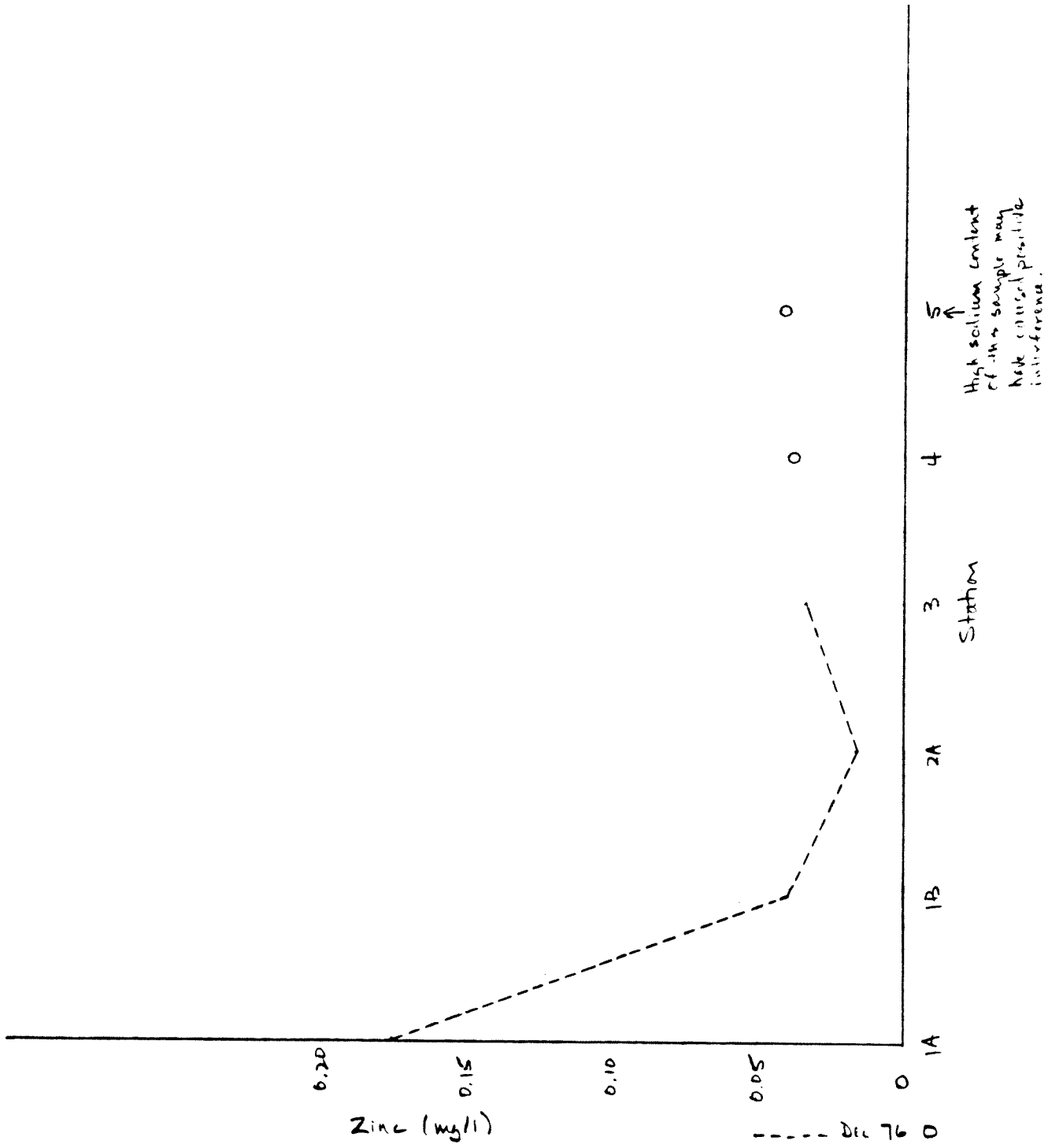
Client: Longfellow Creek - Lead



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

Kramer, Chin & Mayo, Inc.

Client: Longfellow - Zinc



JOB NO.	BY	CHECK	SUBJECT	DATE	SHEET NO.
[illegible]	DS		Longfellow Creek Water Quality - Zinc	[illegible]	18