

TOTAL
LEFT

1984

WATER LABORATORY
TOTAL LEAD ANALYSIS

Techn. Loneigan
Date 6-21-84

Use this method &
Worksheet for
NPDES analyses only

Worksheet
for
CD&P Method CW 72-1-94-8

Date	Spot	ID	< >	Reported Total Lead ug/liter	Lead Found ug/l**	Absorb.	Corr. Absorb.	"Known Addition"	Added "Spike" %** Recovery	Remarks
6-21	Blank	-	-	-	-	0.015	-	-	-	
	101	028		11	10.61	043 102 156 227	028 087 141 212	0 25 50 75	X	
	001	028		78	77.67	230 290 365 432	215 275 350 417	0 25 50 75	X	
	001 Dup	X		83	82.83	234 312 370 438	214 297 355 423	0 25 50 75	X	
	001 "Spike"			103	103	294 360 430 502	284 345 415 487	0 25 50 75		
	661	028		191	191	517 580 650 720	512 565 635 707	0 25 50 75	X	
		028				---	---	0 25 50 75	X	

* Required Quality Control Analyses (see Section 11-G of Method)

% Recovery = $\frac{\text{Pb** in "Spiked" Sample} - \text{Avg. Pb** in Unspiked Sample}}{25.0} \times 100$

90.0%

0.001
0.001

10

0.010

.015

0.018
0.010
0.012
0.010

Blank

0.048
0.040
0.102
0.010
0.100
0.010
0.227

101

0.010

U.230
U.231
U.232
U.233
U.365
U.366
U.432
U.433

001

U.234
U.235
U.312
U.313
U.370
U.371
U.438
U.439

001
Dup

U.299
U.300
U.360
U.361
U.436
U.437
U.502
U.503

001
SPike

U.527
U.528
U.550
U.551
U.552
U.553
U.723
U.800

661

WATER LABORATORY							Techn. <u>L. M. J.</u>			
TOTAL LEAD ANALYSIS							Date <u>7-12-84</u>			
Use this method & Worksheet for NPDES analyses only			Worksheet for CD&P Method CW 72-1-94-B							
Date	Spot	ID	< >	Reported Total Lead μg/liter	Lead Found μg/l**	Absorb.	Corr. Absorb.	"Known Addition %*	Added "Spike" %* Recovery	Remarks
7/2	Blank	-	-	-	-	1014	-	-	-	
	101	028		11	11	046 090 136 209	032 076 122 195	0 25 50 75	X	
	101	028		133	133	366 432 503 563	352 418 489 549	0 25 50 75	X	
	001	028		138	138	376 449 510 576	362 425 496 562	0 25 50 75	X	
	001 SPIKE	028		162	162	438 506 557 637	424 492 543 623	0 25 50 75		
	661	028		134	134	412 486 560 635	398 472 546 621	0 25 50 75	X	
		028				-	-	0 25 50 75	X	
* Required Quality Control Analyses (see Section II-G of Method) % Recovery = $\frac{\text{Pb** in "Spiked" Sample} - \text{Avg. Pb** in Unspiked Sample}}{25.0} \times 100$ 104.0										

101

001

DUP050298387

J.376
J.380
J.449
J.500
J.510
J.550
J.576
J.580

001
Dup

J.412
J.430
J.436
J.470
J.550
J.550
J.555
J.555

661

001
SPIKE

J.436 424
J.500
J.550 452
J.557 543
J.550
J.557 623
J.550

WATER LABORATORY TOTAL LEAD ANALYSIS							Techn. <u>Lonegan</u> Date <u>7-3-84</u>			
Use this method & Worksheet for NPDES analyses only							Worksheet for CD&P Method CW 72-1-94-8			
Date	Spot	ID	< >	Reported Total Lead µg/liter	Lead Found µg/l**	Absorb.	Corr. Absorb.	"Known Addition"	Added "Spike" % Recovery	Remarks
7/3	Blank	-	-	-	-	.016	-	-	-	
	001	028		12	11.8	.044 .041 .132 .198	.028 .075 .176 .182	0 25 50 75	X	
	001	028		65	65.2	.184 .243 .314 .373	.168 .227 .298 .357	0 25 50 75	X	
	001 DuP	028		84	83.6	.202 .249 .299 .364	.186 .233 .273 .348	0 25 50 75	X	
	001 SPIKE	028		93	93.0	.242 .304 .363 .425	.226 .288 .347 .409	0 25 50 75		74.4
	661	028		238	238	.622 .682 .723 .813	.606 .666 .707 .797	0 25 50 75	X	
		028				---	---	0 25 50 75	X	

* Required Quality Control Analyses (see Section 11-G of Method)

% Recovery = $\frac{\text{Pb** in "Spiked" Sample} - \text{Avg. Pb** in Unspiked Sample}}{25.0} \times 100$ 74.4

3
2
1
0.000
0.000
0.014
0.014
0.018
0.000 *Blank*

0.034
0.000
0.091
0.000
0.132
0.000
0.198
0.000 *101*

0.104
0.000
0.240
0.000
0.014
0.000
0.373
0.000 *001*

0.204
0.300
0.249
0.300
0.277
0.300
0.364
0.300

001
Dup

0.242
0.300
0.364
0.300
0.300
0.300
0.425
0.300

001
SPIKE

0.022
0.300
0.002
0.000
0.720
0.000
0.010
0.000

661

WATER LABORATORY

TOTAL LEAD ANALYSIS

Techn. L. MorganDate 6-28-84Use this method &
Worksheet for
NPDES analyses onlyWorksheet
for
CD&P Method CW 72-1-94-8

Date	Spot	ID	< >	Reported Total Lead ug/liter	Lead Found ug/l**	Absorb.	Corr. Absorb.	"Known Addition"	Added Spike" %* Recovery	Remarks
	Blank	-	-	-	-	.010	-	-	-	
6/28	101	028		7	7.39	.031 .093 .142 .211	.021 .083 .132 .201	0 25 50 75	X	
	001	028		108	108.47	.280 .343 .405 .467	.270 .332 .395 .457	0 25 50 75	X	
	001 DUP	028		107	106.69	.285 .346 .415 .476	.275 .336 .405 .466	0 25 50 75	X	
	001 SPIKE	028		123	122.80	.341 .402 .467 .541	.331 .392 .459 .531	0 25 50 75		
	661	028		216	216.16	.604 .668 .737 .809	.594 .658 .727 .799	0 25 50 75	X	
		028				---	---	0 25 50 75	X	

* Required Quality Control Analyses (see Section II-G of Method)

% Recovery = $\frac{\text{Pb** in "Spiked" Sample} - \text{Avg. Pb** in Unspiked Sample}}{25.0} \times 100$

64%

0.000
0.015
0.030
-0.003
0.000
-0.007
0.000
0.011
0.010
0.009
0.000

STD
Blank

0.031
0.000
0.093
0.000
0.142
0.000
0.211
0.000

101

0.200
0.000
0.343
0.000
0.405
0.000
0.407
0.000

001

0.285
0.300
0.346
0.350
0.415
0.476
0.500

001
Dup

0.341
0.350
0.402
~~0.402~~
0.402
0.409
0.469
0.541
0.550

001
SPIKE

0.554
0.558
0.568
0.600
0.707
0.700
0.800
0.800

661

5-11-83
Pb-661
IMC

0.000
0.013
0.000
0.017
0.000
0.020
0.010
0.011
0.000
0.000
0.000
0.944
0.000
0.985
0.000

BUC

661

-340

WATER LABORATORY
TOTAL LEAD ANALYSIS

Techn. McCarthy
Date 5-11-84

Use this method & _____ Worksheet
Worksheet for _____
NPDES analyses only for
CD&P Method CW 72-1-94-8

Date	Spot	ID	< >	Reported Total Lead ug/liter	Lead Found ug/l**	Absorb.	Corr. Absorb.	"Known Addition	Added "Spike" %* Recovery	Remarks
5/11	Blank	-	-	-	013	013	-	-	-	
↓	661	028		340	-340	811 873 944 985	798 870 931 972	0 25 50 75	X	
		028				---	---	0 25 50 75	X	
		028				---	---	0 25 50 75	X	
		028				---	---	0 25 50 75	X	
		028				---	---	0 25 50 75	X	
		028				---	---	0 25 50 75	X	
		028				---	---	0 25 50 75	X	

* Required Quality Control Analyses (see Section II-G of Method)

% Recovery = $\frac{\text{Pb** in "Spiked" Sample} - \text{Avg. Pb** in Unspiked Sample}}{25.0} \times 100$

5/10/84

Pb

TMC

U.025
U.030
U.048
U.050
U.069
U.077
U.083

BIC

U.091
U.097
U.107
U.108
U.228

101

U.377
U.408
U.410
U.427
U.430
U.478

001

U.393
U.400
U.443
U.450
U.513
U.520
U.570

001

34P

U.437
U.470
U.521
U.530
U.652

001

SPK

3rd
make

U.301
U.122
U.181
U.243

BIC

SPK

WATER LABORATORY							Techn. <u>McCarthy</u>			
TOTAL LEAD ANALYSIS							Date <u>5-10-84</u>			
Use this method & Worksheet for NPDES analyses only							Worksheet for CD&P Method CW 72-1-94-8			
Date	Spot	ID	< >	Reported Total Lead µg/liter	Lead Found µg/l**	Absorb.	Corr. Absorb.	"Known Addition"	Added "Spike" %* Recovery	Remarks
5/16	Blank	-	-	-	-	013	-	-	-	
		028		7	-7.3	031 097 157 223	018 084 144 210	0 25 50 75	X	
	101									
		028		139	-139	377 463 507 575	364 450 514 562	0 25 50 75	X	
	001									
	001 DUP	028		160	-160	393 443 515 570	380 430 502 557	0 25 50 75	X	
	001 SPK	028		151	-151	437 521 630 652	424 508 580 639	0 25 50 75	6.0%	
	BLK SPK	028		20	-19.8	061 127 187 243	048 109 168 230	0 25 50 75	80.0%	
		028				---	---	0 25 50 75	X	

* Required Quality Control Analyses (see Section II-G of Method)

% Recovery = $\frac{\text{Pb** in "Spiked" Sample} - \text{Avg. Pb** in Unspiked Sample}}{25.0} \times 100$

Pb
 4-26-84
 TIME
 BLK
 101
 001
 501
 476
 0.019
 0.019
 0.020
 0.015
 0.036
 0.036
 0.087
 0.274
 0.154
 0.267
 0.173
 0.229
 0.280
 0.337
 0.172
 0.237
 0.280
 0.337
 0.238
 0.299
 0.345
 0.397
 0.018
 0.075
 0.118
 0.179

WATER LABORATORY
TOTAL LEAD ANALYSIS

Techn. McCarthy
Date 4-26-84

Use this method & Worksheet
Worksheet for
NPDES analyses only for
CD&P Method CW 72-1-94-8

Date	Spot	ID	< >	Reported Total Lead ug/liter	Lead Found ug/l**	Absorb.	Corr. Absorb.	"Known Addition	Added Spike" %* Recovery	Remarks
4-26	Blank	-	-	-	-	015	-	-	-	
		028		14	14.3	036 081 274 164	021 012 259 149	0 25 50 75		omitted #3
	101									
		028		73	72.8	173 229 280 337	158 214 263 322	0 25 50 75		
	001									
	DUP	028		74	74.1	172 231 280 337	157 222 263 322	0 25 50 75		
	001									
	Spk	028		108	108	238 299 345 397	223 284 330 382	0 25 50 75	150%	
	001									
		028		2	1.6	018 075 118 179	003 060 103 164	0 25 50 75		
4/16	456									
		028				---	---	0 25 50 75		

* Required Quality Control Analyses (see Section II-G of Method)

% Recovery = $\frac{\text{Pb** in "Spiked" Sample} - \text{Avg. Pb** in Unspiked Sample}}{25.0} \times 100$

4-13-84

PD

TMC

0.022	136
0.023	
0.024	
0.025	
0.029	408
0.091	
0.153	
0.204	
0.085	411
0.086	
0.087	
0.088	
0.089	429
0.090	
0.091	
0.092	
0.093	444
0.094	
0.095	
0.096	
0.097	444
0.098	
0.099	
0.100	
0.101	444
0.102	
0.103	
0.104	
0.105	444
0.106	
0.107	
0.108	
0.109	444
0.110	
0.111	
0.112	
0.113	444
0.114	
0.115	
0.116	
0.117	444
0.118	
0.119	
0.120	
0.121	444
0.122	
0.123	
0.124	
0.125	444
0.126	
0.127	
0.128	
0.129	444
0.130	
0.131	
0.132	
0.133	444
0.134	
0.135	
0.136	
0.137	444
0.138	
0.139	
0.140	
0.141	444
0.142	
0.143	
0.144	
0.145	444
0.146	
0.147	
0.148	
0.149	444
0.150	
0.151	
0.152	
0.153	444
0.154	
0.155	
0.156	
0.157	444
0.158	
0.159	
0.160	
0.161	444
0.162	
0.163	
0.164	
0.165	444
0.166	
0.167	
0.168	
0.169	444
0.170	
0.171	
0.172	
0.173	444
0.174	
0.175	
0.176	
0.177	444
0.178	
0.179	
0.180	
0.181	444
0.182	
0.183	
0.184	
0.185	444
0.186	
0.187	
0.188	
0.189	444
0.190	
0.191	
0.192	
0.193	444
0.194	
0.195	
0.196	
0.197	444
0.198	
0.199	
0.200	

WATER LABORATORY
TOTAL LEAD ANALYSIS

Techn. McCarthy
Date 4-13-84

Use this method & _____ Worksheet
Worksheet for _____
NPDES analyses only for _____
CD&P Method CW 72-1-94-8

Date	Spot	ID	< />	Reported Total Lead µg/liter	Lead Found µg/l**	Absorb.	Corr. Absorb.	"Known Addition"	Added "Spike" %* Recovery	Remarks
4/13	Blank	-	-	-	-	0.23	-	-	-	
		028		3	-3.4	0.29 0.91 1.53 2.04	0.06 0.68 1.30 1.81	0 25 50 75	X	
4/9	408									
		028		4	-3.8	0.30 0.81 1.33 1.81	0.07 0.58 1.10 1.58	0 25 50 75	X	
4/2	411									
		028	<	1	+1.9	0.19 0.73 1.23 1.79	0.04 0.50 1.00 1.56	0 25 50 75	X	
4/9	429									
		028	<	1	+3.3	0.19 0.68 1.24 1.85	0.04 0.45 1.01 1.62	0 25 50 75		
3/28	444									
		028				---	---	0 25 50 75	X	
		028				---	---	0 25 50 75	X	

* Required Quality Control Analyses (see Section II-G of Method)

% Recovery = $\frac{\text{Pb** in "Spiked" Sample} - \text{Avg. Pb** in Unspiked Sample}}{25.0} \times 100$

3/9/84
B4K

0.016
0.016
0.016
0.016
0.016
0.016

101
3-8-84

0.035
0.035
0.041
0.041
0.135
0.035
0.253
0.035

001
3-8-84

0.238
0.327
0.327
0.259
0.327
0.438
0.035

001
DUP
3-8-84

0.217
0.217
0.217
~~0.217~~
0.217
0.247
0.383
0.383
0.438
0.035

001
SPK
3-8-84

0.294
0.383
0.383
0.448
0.448
0.502
0.502

661
3-8-84

0.737
0.817
0.830
0.817
0.870
0.870
0.915
0.915

WATER LABORATORY							Techn. <u>McCarthy</u>			
TOTAL LEAD ANALYSIS							Date <u>3-9-84</u>			
Use this method & _____ Worksheet										
Worksheet for _____										
NPDES analyses only							for CD&P Method CW 72-1-94-8			
Date	Spot	ID	< >	Reported Total Lead ug/liter	Lead Found ug/l**	Absorb.	Corr. Absorb.	"Known Addition"	Added "Spike" %* Recovery	Remarks
3/9	Blank	-	-	-	-	.013	-	-	-	
3/8	101	028		1	-7.12	.035 .081 .136 .203	.022 .068 .123 .190	0 25 50 75	X	
3/8	001	028		66	-66.3	.238 .259 .327 .438	.225 .246 .314 .425	0 25 50 75	X	
3/8	001 Dup	028		72	-71.8	.247 .267 .383 .438	.234 .254 .370 .425	0 25 50 75	X	
3/8	001 Spk	028		97	-97.4	.294 .359 .418 .502	.281 .346 .435 .489	0 25 50 75	112%	
3/8	661	028		302	-302	.737 .830 .876 .915	.724 .817 .863 .902	0 25 50 75	X	
		028				---	---	0 25 50 75	X	

* Required Quality Control Analyses (see Section II-G of Method)

% Recovery = $\frac{\text{Pb** in "Spiked" Sample} - \text{Avg. Pb** in Unspiked Sample}}{25.0} \times 100$

Pb 2784
ST 3000

0.000
0.000
0.000
0.000
0.001
0.000
0.015 *Block*
0.000
0.024
0.000
0.093 *101*
0.000
0.126
0.000
0.177
0.000
0.192
0.000 *001*
0.246
0.000
0.303
0.000
0.358
0.000
0.174 *001*
0.000 *dup*
0.240
0.000
0.295
0.000
0.348
0.000
0.220 *001*
0.000 *Spike*
0.277
0.000
0.344
0.000
0.399
0.000
0.043
0.000 *100*
0.105 *Spike*
0.000
0.155
0.000
0.233
0.000
0.239
0.000
0.023
0.000
0.012
0.000
0.009
0.011
0.011
0.000
0.007

WATER LABORATORY
TOTAL LEAD ANALYSIS

Techn. E. L. Linn
Date 1-27-84

Use this method & Worksheet for
NPDES analyses only CD&P Method CW 72-1-94-8

Date	Spot	ID	< >	Reported Total Lead µg/liter	Lead Found µg/l**	Absorb.	Corr. Absorb.	"Known Addition"	Added Spike" %* Recovery	Remarks
1-27	Blank	-	-	-	-	0.15	-	-	-	
1-26	101A	028	7	-	-	0.24 0.93 1.26 1.77	0.67 0.78 1.11 1.62	0 25 50 75	X	
	001A	028	80	-	-	1.92 2.46 2.91 3.33	1.71 2.31 2.85 3.43	0 25 50 75	X	
	001A	028	70	-	-	2.41 2.95 3.43	1.59 2.23 2.85 3.33	0 25 50 75	X	
	001A Spike	028		-	-84.4	6.65 2.77 3.94 3.97	2.05 2.62 3.17 3.77	0 25 50 75		37.6
	H ₂ O Spike	028		-	-11.7	0.48 1.05 1.53 2.33	0.33 0.90 1.40 2.18	0 25 50 75	X	46.8
		028				---	---	0 25 50 75	X	

* Required Quality Control Analyses (see Section II-G of Method)

% Recovery = $\frac{\text{Pb** in "Spiked" Sample} - \text{Avg. Pb** in Unspiked Sample}}{25.0} \times 100$

84.4 - 75 =

*****LOGGED ON*****27-JAN-1984-1002013ENTER ENABLED....

\$ MINITAB

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JAN. 27, 1984 *** E.I. DUPONT DE NEMOURS

STORAGE AVAILABLE 962376

There is HELP on new features of Ver. 82.1. Type NEWS for details.

MTB > READ-C1,C2

DATA> .009,0

DATA> .078,25

DATA> .14,50

* TOO MANY VALUES - REENTER ROW

DATA> .162,75

DATA> .111,50

DATA> REGR,C2,C1

4 ROWS READ

THE REGRESSION EQUATION IS

C2 = - 7.39 + 499 C1

COLUMN	COEFFICIENT	ST. DEV. OF COEF.	T-RATIO = COEF/S.D.
	-7.391	5.105	-1.45
C1	498.78	48.28	10.33

S = 5.361

R-SQUARED = 98.2 PERCENT

R-SQUARED = 97.2 PERCENT, ADJUSTED FOR D.F.

ANALYSIS OF VARIANCE

DUE TO	DF	SS	MS=SS/DF
REGRESSION	1	3067.5	3067.5
RESIDUAL	2	57.5	28.7
TOTAL	3	3125.0	

0.000
 0.022
 0.010 *Blank*
 0.019
 0.028
 0.030
 0.031
 0.030
 0.135
 0.033
 0.192
 0.033
 0.177
 0.030
 0.236
 0.033
 0.257
 0.030
 0.344
 0.033
 0.179
 0.030
 0.233
 0.030
 0.233
 0.030
 0.347
 0.030
 0.229
 0.030
 0.257
 0.030
 0.343
 0.030
 0.398
 0.030
 0.310
 0.030
 0.019
 0.030
 0.030
 0.118
 0.030
 0.177
 0.030

D

WATER LABORATORY							Techn. <u>B LUM</u>			
TOTAL LEAD ANALYSIS							Date <u>1-19-84</u>			
Use this method & Worksheet for NPDES analyses only							CD&P Method CW 72-1-94-8			
Date	Spot	ID	< >	Reported Total Lead µg/liter	Lead Found µg/l**	Absorb.	Corr. Absorb.	"Known Addition"	Added "Spike" %* Recovery	Remarks
1-19	Blank	-	-	-	-	0.20	-	-	-	
	101A	028		3.2	-3.24	0.28 0.81 1.35 1.92	0.08 0.61 0.15 1.72	0 25 50 75	X	
	001A	028		72	-71.6	1.77 2.36 2.87 3.44	1.57 2.16 2.67 3.24	0 25 50 75	X	
	001A Dup	028		71	-70.5	1.79 2.33 2.89 3.47	1.59 2.13 2.69 3.27	0 25 50 75	X	
	001A Spike	028		93	-93.1	2.29 2.87 3.43 3.98	2.09 2.67 3.23 3.78	0 25 50 75		86%
1-17	456	028			4.04	0.12 0.66 1.18 1.77	0.08 0.46 0.98 1.57	0 25 50 75	X	
		028				---	---	0 25 50 75	X	

* Required Quality Control Analyses (see Section II-G of Method).

% Recovery = $\frac{\text{Pb** in "Spiked" Sample} - \text{Avg. Pb** in Unspiked Sample}}{25.0} \times 100$

93 - 71.5 $\times 100 \div 25 =$

pb
F584
BLUM

0.000
0.000
0.027
0.000
0.022
0.000
0.074
0.000
0.130
0.000
0.183
0.000
0.201
0.000
0.250
0.000
0.314
0.000
0.374
0.000
0.267
0.000
0.263
0.000
0.320
0.000
0.384
0.000
0.259
0.000
0.329
0.000
0.387
0.000
0.432
0.000
0.011
0.000
0.071
0.000
0.122
0.000
0.184
0.000
0.013
0.000
0.016
0.000

101A

001

001

001

001

Spoke

411

blank

WATER LABORATORY							Techn. <u>BLUM</u>			
TOTAL LEAD ANALYSIS							Date <u>1-5-84</u>			
Use this method & Worksheet for NPDES analyses only							for CD&P Method CW 72-1-94-8			
Date	Spot	ID	< >	Reported Total Lead µg/liter	Lead Found µg/l**	Absorb.	Corr. Absorb.	"Known Addition"	Added "Spike" %* Recovery	Remarks
1-5	Blank	-	-	-	-	0.01	-	-	-	
↑	101	028		5	4.82	0.22	0.11	0	X	
						0.74	0.63	25		
						1.30	1.19	50		
						1.83	1.72	75		
	001	028		80	79.6	2.01	1.90	0	X	
						2.50	2.39	25		
						3.14	3.03	50		
						3.74	3.63	75		
	001 002	028	X		82.5	2.07	1.96	0	X	
						2.63	2.52	25		
						3.20	3.09	50		
						3.81	3.73	75		
↓	001 Sp. Kc	028	X		58.0	2.59	2.48	0		68%
						3.29	3.18	25		
						3.87	3.76	50		
						4.52	4.41	75		
1-4-83	411	028	<	110	0.17	0.11	0.00	0	X	
						0.71	0.60	25		
						1.22	1.11	50		
						1.84	1.73	75		
		028						0	X	
								25		
								50		
								75		

* Required Quality Control Analyses (see Section II-G of Method)

% Recovery = $\frac{\text{Pb** in "Spiked" Sample} - \text{Avg. Pb** in Unspiked Sample}}{25.0} \times 100$

$\frac{78.8 - 11.7}{25.0} \times 100 = 212 - 68\%$

WATER LABORATORY										Techn. <u>Blum</u>
TOTAL LEAD ANALYSIS										Date <u>2-9-84</u>
Use this method & Worksheet for NPDES analyses only										CD&P Method CW 72-1-94-8
Date	Spot	ID	< >	Reported Total Lead µg/liter	Lead Found µg/l**	Absorb.	Corr. Absorb.	"Known Addition	Added "Spike" %* Recovery	Remarks
2-9	Blank	-	-	-	-	0.02	-	-	-	
	101	028		7	-6.9	0.12 0.16 1.18 1.73	0.14 0.63 1.20 1.75	0 25 50 75		
	001	028		93	-92.8	2.08 2.57 3.16 3.74	2.10 2.59 3.18 3.76	0 25 50 75		
	001			99	-9.6	2.09 2.72 3.22 3.73	2.11 2.74 3.24 3.75	0 25 50 75		
	001				-110	25.6 31.4 37.4 43.1	25.8 31.6 37.6 43.3	0 25 50 75		57.2%
26	480	028	<	1	9.0	0.15 0.21 0.53 0.86	0.13 0.23 0.55 0.88	0 25 50 75		
		028			Blank	0.02 0.02 0.02 0.02	0.02 0.02 0.02 0.02	0 25 50 75		

* Required Quality Control Analyses (see Section II-G of Method)

% Recovery = $\frac{\text{Pb** in "Spiked" Sample} - \text{Avg. Pb** in Unspiked Sample}}{25.0} \times 100$

$110 - 95.7 \times 100 \div 25.2$

Pb
2-984
B/um

0.000
0.000
0.012 B/hok
0.000
0.012
0.000
0.000
0.000
0.118
0.000
0.173
0.000
0.208
0.000
0.257
0.000
0.316
0.000
0.374
0.000
0.209
0.000
0.272
0.000
0.322
0.000
0.373
0.000
0.256
0.000
0.314
0.000
0.374
0.000
0.431
0.000
-0.015
0.000
0.021
0.000
0.053
0.000
0.086
0.000
0.002 B/hok

0.300
0.318 *BLK*
0.300
0.016

0.330
0.040
0.000
0.112 *101*
0.000
0.164
0.000
0.291

0.000
0.070
0.262
0.000
0.330 *001*
0.000
0.392
0.000
0.473

0.000
0.000
0.265 *001*
0.000
0.337 *dup*
0.000
0.407
0.000
0.488

0.000
0.070
0.333 *001*
0.000
0.402 *spike*
0.000
0.475
0.000
0.557
0.000

WATER LABORATORY
TOTAL LEAD ANALYSIS

Techn. F. Booth
Date 2/2/84

Use this method &
Worksheet for
NPDES analyses only

Worksheet
for
CD&P Method CW 72-1-94-8

Date	Spot	ID	< >	Reported Total Lead ug/liter	Lead Found ug/l**	Absorb.	Corr. Absorb.	"Known Addition"	Added "Spike" %* Recovery	Remarks
2/2	Blank	-	-	-	-	0.06	-	-	-	
	101	028		9	88.5	040	024	0		
						122	056	25		
						184	168	50		
						251	235	75		
	001	028		87	87.4	262	246	0		
						350	314	25		
						392	376	50		
						473	457	75		
	001 Duplicate*				83.6	265	249	0		
						332	321	25		
						407	391	50		
						488	472	75		
	001 "Spike"* 25 ug/l				108	358	322	0	90%	
						402	366	25		
						475	459	50		
						557	541	75		
		028				---	---	0		
						---	---	25		
						---	---	50		
						---	---	75		
		028				---	---	0		
						---	---	25		
						---	---	50		
						---	---	75		

* Required Quality Control Analyses (see Section II-G of Method)

% Recovery = $\frac{\text{Pb** in "Spiked" Sample} - \text{Avg. Pb** in Unspiked Sample}}{25.0} \times 100$

— 22 —

438

WATER LABORATORY
TOTAL LEAD ANALYSIS

Techn. F. Booth
Date 2/16/84

Use this method & Worksheet for
NPDES analyses only CD&P Method CW 72-1-94-8

Date	Spot	ID	< >	Reported Total Lead µg/liter	Lead Found µg/l**	Absorb.	Corr. Absorb.	"Known Addition"	Added "Spike" %* Recovery	Remarks
	Blank	-	-	-	-	006	-	-	-	
	101	028		12	11.8	024 090 131	012 084 125	0 25 50 75		
	001	028		97	96.9	266 316 377 453	266 312 371 447	0 25 50 75		
	001 dup	028		102	102	269 310 392 446	263 304 386 440	0 25 50 75		
	001 spike	028			103	311 390 463 535	305 384 457 529	0 25 50 75	102%	
	438	028		3	2.6	011 073 131 204	005 066 125 198	0 25 50 75		
		028				---	---	0 25 50 75		

* Required Quality Control Analyses (see Section II-G of Method)

% Recovery = $\frac{\text{Pb** in "Spiked" Sample} - \text{Avg. Pb** in Unspiked Sample}}{25.0} \times 100$

0.002 BLI

0.002

0.002

0.015

0.002

0.014 101

0.002

0.116

0.002

0.176

0.002

0.140

0.002

0.200 001

0.002

0.247

0.002

0.302

0.002

0.141 001

0.002

0.189 dup

0.002

0.200

0.002

0.229

0.002

0.190 001

0.002

0.248 spike

0.002

0.294

0.002

0.349

0.002

0.349

0.002

0.407 661

0.002

0.439

0.002

0.523

0.002

WATER LABORATORY
TOTAL LEAD ANALYSIS

Techn. J. Barth
Date 2/23/84

Use this method & Worksheet for
NPDES analyses only CD&P Method CW 72-1-94-B

Date	Spot	ID	< >	Reported Total Lead µg/liter	Lead Found µg/l**	Absorb.	Corr. Absorb.	"Known Addition"	Added "Spike" %* Recovery	Remarks
2/23	Blank	-	-	-	-	1002	-	-	-	
	101	028		7	6.84	015 074 118 176	013 072 116 174	0 25 50 75	X	
	001	028		66	65.6	140 200 247 302	138 198 245 300	0 25 50 75	X	
	001 dup	028		64	64.0	141 189 250 299	139 187 248 297	0 25 50 75	X	
	001 spike	028			90.4	190 248 294 349	188 246 292 347	0 25 50 75	102.8 %	
	661	028			151	349 407 459 523	347 405 457 521	0 25 50 75	X	
		028				---	---	0 25 50 75	X	

* Required Quality Control Analyses (see Section II-G of Method)

% Recovery = $\frac{\text{Pb** in "Spiked" Sample} - \text{Avg. Pb** in Unspiked Sample}}{25.0} \times 100$

3/84
Pb
Blum

0.000 B
0.007
0.018
0.037 101
0.122
0.178
0.000
0.002
0.231 001
0.330
0.351
0.445
0.290
0.339 out
0.393 out
0.459
0.343 out
0.402 out
0.452 Sparks
0.501
0.700
0.550
0.226
0.277
0.985
0.007 B

WATER LABORATORY							Techn. _____			
TOTAL LEAD ANALYSIS							Date <u>3-1-84</u>			
Use this method & Worksheet for NPDES analyses only							for CD&P Method CW 72-1-94-8			
Date	Spot	ID	< >	Reported Total Lead µg/liter	Lead Found µg/l**	Absorb.	Corr. Absorb.	"Known Addition"	Added "Spike" %* Recovery	Remarks
3-1	Blank	-	-	-	-	007	-	-	-	
	101A	028		4	3.77	018 064 122 176	001 057 115 169	0 25 50 75	X	
	001A	028		125	-125	281 335 391 445	274 328 384 438	0 25 50 75	X	
	001A DUP	028		120	-120	286 339 393 458	279 332 386 452	0 25 50 75	X	
	661 001A SPIKE	028		161	-161	343 402 452 501	336 395 445 494	0 25 50 75		152%
	661	028		295	-295	783 856 926 979	776 849 919 972	0 25 50 75	X	
		028				---	---	0 25 50 75	X	

* Required Quality Control Analyses (see Section II-G of Method)

% Recovery = $\frac{\text{Pb** in "Spiked" Sample} - \text{Avg. Pb** in Unspiked Sample}}{25.0} \times 100$

$161 - 123 \times 100 \div 25 = 152\%$

	0.000
	0.000
	0.000
2808	0.004
	0.000
2809	0.010
	0.000
2810	0.012
	0.000
2811	0.000
	0.000
2812	0.024
	0.000
2813	0.031
	0.000
2814	0.144
	0.000
2815	0.214
	0.000
2816	0.407
	0.000
2817	0.450
	0.000
2818	0.539
	0.000
2819	0.602
	0.000
2820	0.418
	0.000
2821	0.455
	0.000
2822	0.556
	0.000
2823	0.601
	0.000
2824	0.467
	0.000
2825	0.537
	0.000
2826	0.609
	0.000
2827	0.605
	0.000
2828	1.039
	0.000
2829	1.118
	0.000
2830	1.153
	0.000
2831	1.255
	0.000

BLK
3

101

001

001

dy

001

spike

661

WATER LABORATORY

TOTAL LEAD ANALYSIS

Techn. J. Smith

Date 5/16/94

Use this method & _____ Worksheet
Worksheet for _____ for _____
NPDES analyses only CD&P Method CW 72-1-94-8

Date	Spot	ID	< >	Reported Total Lead ug/liter	Lead Found ug/l**	Absorb.	Corr. Absorb.	"Known Addition"	Added "Spike" %* Recovery	Remarks
5/12	Blank	-	-	-	-1010	-	-	-	-	
	101	028			024 014 051 071 1475 156 275 223			0 25 50 75		
	001	028		133	421 347 463 457 539 529 602 593			0 25 50 75		
	001 dup.	028		161	410 408 465 455 536 526 607 597			0 25 50 75		
	001 spike	028		172	467 457 1725 327 609 599 665 655			0 25 50 75	100%	
	661	028		360	1039 1029 1115 1108 301103 7153 1258 1248			0 25 50 75		
		028						0 25 50 75		

* Required Quality Control Analyses (see Section II-G of Method)

% Recovery = $\frac{\text{Pb** in "Spiked" Sample} - \text{Avg. Pb** in Unspiked Sample}}{25.0} \times 100$

	0.000
	0.000
	0.000
2821	0.000
	0.000
2822	0.000
	0.000
2823	0.013
	0.000
2824	0.011
	0.000
2825	0.000 <i>BLK</i>
	0.000
2826	0.025
	0.000
2827	0.030
	0.000 <i>101</i>
2828	0.141
	0.000
2829	0.200
	0.000
2830	0.302
	0.000
2831	0.443
	0.000 <i>001</i>
2832	0.510
	0.000
2833	0.555
	0.000
2834	0.000
	0.000
2835	0.400
	0.000
2836	0.384
	0.000 <i>001</i>
2837	0.452
	0.000 <i>dup</i>
2838	0.524
	0.000
2839	0.570
	0.000
2840	0.465
	0.000 <i>001</i>
2841	0.524
	0.000 <i>spike</i>
2842	0.590
	0.000
2843	0.645
	0.000
2844	0.872
	0.000 <i>661</i>
2845	0.956
	0.000
2846	1.000
	0.000
2847	1.104
	0.000
	0.000

WATER LABORATORY
TOTAL LEAD ANALYSIS

Techn. F. Booth
Date 3/22/84

Use this method & Worksheet
Worksheet for
NPDES analyses only for
CD&P Method CW 72-1-94-8

Date	Spot	ID	< >	Reported Total Lead µg/liter	Lead Found µg/l**	Absorb.	Corr. Absorb.	"Known Addition"	Added "Spike" %* Recovery	Remarks
3/22	Blank	-	-	-	-	1.006	-	-	-	
	101	028		9	-8.60	0.25 0.86 1.41 2.00	0.19 0.80 1.35 1.94	0 25 50 75		
	001	028		123	-123	3.82 4.43 5.10 5.65	3.76 4.37 5.04 5.59	0 25 50 75		
	001 dup.	028		147	-147	3.84 4.52 5.21 5.76	3.78 4.46 5.15 5.70	0 25 50 75		
	001 spike	028		189	-189	4.65 5.24 5.90 6.45	4.59 5.18 5.84 6.39	0 25 50 75	216%	
	661	028		309	-309	8.92 9.56 1.033 1.104	8.86 9.50 1.027 1.098	0 25 50 75		
		028				---	---	0 25 50 75		

* Required Quality Control Analyses (see Section II-G of Method)

% Recovery = $\frac{\text{Pb** in "Spiked" Sample} - \text{Avg. Pb** in Unspiked Sample}}{25.0} \times 100$

0.003
 0.000
 0.000
 -0.000
 0.000
 -0.011
 0.000
 0.000
 -0.002
 0.000
 0.000
 0.000
 0.019
 0.000
 0.072
 0.000
 0.121
 0.000
 0.133
 0.000
 0.401
 0.000
 0.472
 0.000
 0.532
 0.000
 0.527
 0.000
 0.000
 0.410
 0.000
 0.000
 0.000
 0.464
 0.000
 0.402
 0.000
 0.534
 0.000
 0.570
 0.000
 0.450
 0.000
 0.521
 0.000
 0.537
 0.000
 0.643
 0.000
 0.501
 0.000
 0.574
 0.000
 0.538
 0.000
 0.597
 0.000
 0.000

WATER LABORATORY							Techn. <u>F. Booth</u>			
TOTAL LEAD ANALYSIS							Date <u>3/29/84</u>			
Use this method & Worksheet for NPDES analyses only										
CD&P Method CW 72-1-94-8										
Date	Spot	ID	< >	Reported Total Lead µg/liter	Lead Found µg/l**	Absorb.	Corr. Absorb.	"Known Addition Recovery	Added "Spike" %*	Remarks
3/29	Blank	-	-	-	-	003	-	-	-	
	101	028		3	-334	028 072 121 183	015 069 118 180	0 25 50 75		
	001	028		160	-160	401 472 532 589	398 469 529 586	0 25 50 75		
	001 dup	028		158	-158	404 462 534 590	401 459 531 587	0 25 50 75		
	001 spike	028		185	-185	452 521 582 643	456 518 584 640	0 25 50 75	104%	
	661	028		192	-192	501 574 638 697	498 571 635 694	0 25 50 75		
		028				---	---	0 25 50 75		

* Required Quality Control Analyses (see Section II-G of Method)

% Recovery = $\frac{\text{Pb** in "Spiked" Sample} - \text{Avg. Pb** in Unspiked Sample}}{25.0} \times 100$

Pb

1/3/85

F.B.

U.303
U.303 BLK
U.303
U.303

U.021
U.083 101
U.105
U.148

U.131
U.172 001
U.214
U.231

U.130
U.130 001
U.125
U.170 dup
U.219
U.235

U.170 001
U.212 split
U.215
U.310

U.310
U.310
U.310 661
U.720
U.720
U.900

dd
gef
#8/10/01

0.000
0.000
0.002
0.001 BLK
0.001
#10.003
0.001
0.002 101
0.003
0.008
0.012
0.018
0.013
0.017 001
0.023
0.028
0.012 001
0.017 dup
0.023
0.028
0.017 001
0.022 spike
0.026
0.034
0.038 661
0.044
0.050
0.055
0.060

0.000

0.015

0.016

0.017

0.018

0.027

0.075

0.109

0.152

0.000

10.184

40.308

30.269

30.235

0.000

0.157

0.236

0.213

0.311

0.000

0.236

0.290

0.320

0.306

0.000

0.493

0.501

0.591

0.512

0.000

12/20/84
Pb
F.B

	0.000	
2812	0.000	
	0.000	
2813	0.016	
	0.000	
2814	0.072	101
	0.000	
2815	0.127	
	0.000	
2816	0.182	
	0.000	
2817	0.304	
	0.000	
2818	0.374	001
	0.000	
2819	0.424	
	0.000	
2820	0.484	
	0.000	
2821	0.000	
	0.000	
2822	0.304	
	0.000	
2823	0.000	001
	0.000	
2824	2 0.370	dup
	0.000	
2825	3 0.426	
	0.000	
2826	4 0.468	
	0.000	
2827	0.368	
	0.000	
2828	0.399	001
	0.000	
2829	0.400	spike
	0.000	
2830	0.519	
	0.000	
2831	0.310	661
	0.000	
2832	0.300	
	0.000	
2833	0.937	
	0.000	
2834	0.953	
	0.000	

128

WATER LABORATORY
TOTAL LEAD ANALYSIS

Techn. F. Booth
Date 4/5/84

Use this method & Worksheet for
NPDES analyses only for
CD&P Method CW 72-1-94-8

Date	Spot	ID	< >	Reported Total Lead ug/liter	Lead Found ug/l**	Absorb.	Corr. Absorb.	"Known" Addition	Added "Spike" %* Recovery	Remarks
4/5	Blank	-	-	-	-	.003	-	-	-	
	101	028		7	-652	012 072 122 182	012 069 124 179	0 25 50 75	X	
	001	028		129	-129	304 374 424 484	301 371 421 481	0 25 50 75	X	
	001 dup	028		124	-124	304 370 426 488	301 367 423 485	0 25 50 75	X	
	001 spike	028		155	-155	353 399 460 519	350 397 457 516	0 25 50 75	108%	
↓	661	028		350	-350	870 880 937 983	807 877 934 980	0 25 50 75	X	
		028				---	---	0 25 50 75	X	

* Required Quality Control Analyses (see Section II-G of Method)

% Recovery = $\frac{\text{Pb** in "Spiked" Sample} - \text{Avg. Pb** in Unspiked Sample}}{25.0} \times 100$

2338	0.000	
2339	0.000	Blank
2340	0.000	
2341	0.036	
2342	0.000	
2343	0.000	
2344	0.192	
2345	0.000	
2346	0.244	
2347	0.000	
2348	0.249	
2349	0.000	
2350	0.294	001
2351	0.000	
2352	0.342	
2353	0.000	
2354	0.336	
2355	0.000	
2356	0.393	
2357	0.000	
2358	0.255	001
2359	0.000	
2360	0.304	001
2361	0.000	
2362	0.372	
2363	0.000	
2364	0.401	
2365	0.000	
2366	0.296	
2367	0.000	
2368	0.341	001
2369	0.000	
2370	0.412	Spike
2371	0.000	
2372	0.471	
2373	0.000	
2374	0.000	
2375	0.040	
2376	0.000	
2377	0.104	
2378	0.000	
2379	0.164	
2380	0.000	
2381	0.001	Blank
2382	0.000	
2383	0.048	

47285
pb
22um

WATER LABORATORY							Techn. <u>B LUM</u>			
TOTAL LEAD ANALYSIS							Date <u>4-12-84</u>			
Use this method & Worksheet for NPDES analyses only										
Worksheet for CD&P Method CW 72-1-94-8										
Date	Spot	ID	< >	Reported Total Lead ug/liter	Lead Found ug/l**	Absorb.	Corr. Absorb.	"Known Addition"	Added "Spike" %* Recovery	Remarks
4-12	Blank	-	-	-	-	.006	-	-	-	
	101	028		8	-7.6	036 088 192 244	030 082 186 238	0 25 50 75	X	PPM=336.5A-7.6 N=0.9899
	001	028		126	-126	249 294 342 393	243 288 336 387	0 25 50 75	X	PPM=530.4A-125.7 N=0.9996
	001 Dupl	028		125	-125	255 304 362 401	249 298 351 395	0 25 50 75	X	PPM=501.4A-125.2 N=0.9974
	001 Spike	028		148	125.5 +22.8 148.3	296 341 412 471	290 325 406 465	0 25 50 75	90%	PPM=475.6A-118.3 N=0.9966 PPM=505.5A-123.7 N=0.890
4-9		028	< 0.0		3.44	001 040 104 164	006 036 128 158	0 25 50 75	X	
		028				---	---	0 25 50 75	X	

* Required Quality Control Analyses (see Section II-G of Method)

% Recovery = $\frac{\text{Pb** in "Spiked" Sample} - \text{Avg. Pb** in Unspiked Sample}}{25.0} \times 100$

* Combined equation (calibration)
56.521 and 601 Dupl

0.000
0.000
0.000
0.007
0.000
0.006
0.000
0.012
0.000
0.021
0.000
0.013
0.000

0.022
0.000
0.000
0.000
0.119
0.000
0.173

0.131
0.000
0.132
0.000
0.238
0.000
0.239

0.138
0.000
0.124
0.000
0.165
0.000
0.240
0.000
0.300

0.000
0.159
0.000
0.238
0.000
0.238
0.000
0.301

0.000
0.074
0.000
0.432
0.000
0.494
0.000
0.554
0.000

WATER LABORATORY							Techn. <u>F. Booth</u>			
TOTAL LEAD ANALYSIS							Date <u>4/19/84</u>			
Use this method & Worksheet for NPDES analyses only							Worksheet for CD&P Method CW 72-1-94-8			
Date	Spot	ID	< >	Reported Total Lead µg/liter	Lead Found µg/l**	Absorb.	Corr. Absorb.	"Known" Addition	Added "Spike" %* Recovery	Remarks
4/19	Blank	-	-	-	-	0.007	-	-	-	
	101	028		6	6.34	0.22 0.68 1.19 1.73	0.15 0.61 1.12 1.66	0 25 50 75	X	
	001	028		58	58.2	1.31 1.82 2.38 2.89	1.24 1.75 2.31 2.82	0 25 50 75	X	
	001 dup	028		57	57.1	1.35 1.86 2.43 3.00	1.28 1.79 2.36 2.93	0 25 50 75	X	
	001 spike	028		83	83.3	1.89 2.38 2.96 3.51	1.82 2.31 2.89 3.44	0 25 50 75	102%	
	661	028		152	152	3.74 4.32 4.94 5.54	3.62 4.25 4.82 5.47	0 25 50 75	X	
		028				---	---	0 25 50 75	X	

* Required Quality Control Analyses (see Section II-G of Method)

% Recovery = $\frac{\text{Pb** in "Spiked" Sample} - \text{Avg. Pb** in Unspiked Sample}}{25.0} \times 100$

2501 0.012
 2502 0.038
 2503 0.093
 2504 0.142
 2505 0.193
 2506 0.000
 2507 0.179
 2508 0.233
 2509 0.266
 2510 0.343
 2511 0.176
 2512 0.232
 2513 0.235
 2514 0.342
 2515 0.229
 2516 0.262
 2517 0.358
 2518 0.327
 2519 0.260
 2520 0.341
 2521 0.399
 2522 0.451

0.000
0.000
0.000
0.027
0.000
0.025
0.000
0.025
0.000
0.030
0.000
0.030
0.000
0.022
0.000
0.000

0.021 BLK

0.000
0.027
0.000
0.027
0.000
0.000
0.145
0.000
0.211

101

0.000
0.000
0.147
0.000
0.205
0.000
0.206
0.000
0.000

001

0.000
0.000
0.145
0.000
0.210
0.000
0.205
0.000
0.318

001

dup

0.000
0.000
0.145
0.000
0.201
0.000
0.314
0.000
0.353

001

spike

0.000
0.448
0.000
0.525
0.000
0.535
0.000
0.000
0.000

661

54.35

WATER LABORATORY
TOTAL LEAD ANALYSIS

Techn. F. Booth
Date 5/17/84

Use this method & Worksheet
Worksheet for
NPDES analyses only for
CD&P Method CW 72-1-94-8

Date	Spot	ID	< >	Reported Total Lead ug/liter	Lead Found ug/l**	Absorb.	Corr. Absorb.	"Known" Addition	Added Spike" %* Recovery	Remarks
5/17	Blank	-	-	-	-	1021	-	-	-	
	101	028		2	151	027 084 145 211	006 063 124 190	0 25 50 75	X	
	001	028		53	53.4	147 205 266 323	126 184 245 302	0 25 50 75	X	
	001 dup	028		55	55.3	145 210 265 318	124 189 244 297	0 25 50 75	X	
	001 spike	028		71	71.2	196 261 314 383	175 240 293 362	0 25 50 75	67.4 %	
✓	661	028		161	161	448 526 586 650	427 505 565 629	0 25 50 75	X	
		028				---	---	0 25 50 75	X	

* Required Quality Control Analyses (see Section II-G of Method)

% Recovery = $\frac{\text{Pb** in "Spiked" Sample} - \text{Avg. Pb** in Unspiked Sample}}{25.0} \times 100$

WATER LABORATORY
TOTAL LEAD ANALYSIS

Techn. Bloom
Date 5-24-84

Use this method & Worksheet for
NPDES analyses only for
CD&P Method CW 72-1-94-8

Date	Spot	ID	< >	Reported Total Lead µg/liter	Lead Found µg/l**	Absorb.	Corr. Absorb.	"Known Addition"	Added "Spike" %* Recovery	Remarks
	Blank	-	-	-	-	0.22	-	-	-	
		028		8.4	-8.44	0.38 0.93 1.42 1.93	0.16 0.77 1.20 1.71	0 25 50 75		
	001	028		71.8	-71.8	1.79 2.33 2.87 3.43	1.57 2.11 2.64 3.21	0 25 50 75		
	001 Dup	028			-69.8	1.76 2.32 2.86 3.42	1.54 2.10 2.64 3.20	0 25 50 75		
	001 Spike	028		98	-97.8	2.29 2.82 3.38 3.87	2.07 2.60 3.16 3.65	0 25 50 75		108%
	661	028		115	-115.2	2.80 3.41 3.90 4.51	2.58 3.19 3.58 4.29	0 25 50 75		
		028				---	---	0 25 50 75		

* Required Quality Control Analyses (see Section II-G of Method)

% Recovery = $\frac{\text{Pb** in "Spiked" Sample} - \text{Avg. Pb** in Unspiked Sample}}{25.0} \times 100$

$$97.8 - 70.8 \times 2.7 \times 100 \div 25 =$$

0.000

0.000

0.000

0.000

0.000

0.000

0.000

0.000

0.000

0.000

0.000

0.000

0.000

0.000

0.000

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0.000

0.000

0.000

0.000

0.000

0.000

0.000

0.000

0.000

0.000

0.000

0.000

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0.000

0.000

0.000

0.000

0.000

WATER LABORATORY
TOTAL LEAD ANALYSIS

Techn. F. Booth
Date 6/7/84

Use this method & Worksheet for
NPDES analyses only CD&P Method CW 72-1-94-8

Date	Spot	ID	< >	Reported Total Lead µg/liter	Lead Found µg/l**	Absorb.	Corr. Absorb.	"Known Addition"	Added Spike" %* Recovery	Remarks
6/7	Blank	-	-	-	-	1007	-	-	-	
	101	028		8	-8.31	028 150 150 214	021 143 143 207	0 25 50 75	X	
	001	028		77	-76.9	212 277 335 412	205 270 328 405	0 25 50 75	X	
	001 dup	028		79	-79.1	214 279 336 411	207 272 329 404	0 25 50 75	X	
	001 spike	028		108	108	272 334 399 456	265 327 392 449	0 25 50 75	120%	
	661	028		171	-171	510 571 668 718	503 564 661 711	0 25 50 75	X	
		028				---	---	0 25 50 75	X	

* Required Quality Control Analyses (see Section II-G of Method)

% Recovery = $\frac{\text{Pb** in "Spiked" Sample} - \text{Avg. Pb** in Unspiked Sample}}{25.0} \times 100$

6/11/94
Pb

2825	0.032	
	0.033	B14
2826	0.031	
	0.030	
2827	0.031	
	0.030	
2828	0.024	
	0.030	438
2829	0.072	
	0.030	
2830	0.108	
	0.030	
2831	0.154	
	0.030	
2832	0.025	
	0.030	405
2833	0.041	
	0.030	
2834	0.120	
	0.030	
2835	0.120	
	0.030	
2836	0.027	
	0.030	417
2837	0.072	
	0.030	
2838	0.115	
	0.030	
2839	0.159	
	0.030	

WATER LABORATORY
TOTAL LEAD ANALYSIS

Techn. McCarthy
Date 6-11-84

Use this method & Worksheet for
NPDES analyses only CD&P Method CW 72-1-94-8

Date	Spot	ID	< >	Reported Total Lead µg/liter	Lead Found µg/l**	Absorb.	Corr. Absorb.	"Known Addition"	Added "Spike" %* Recovery	Remarks
6/11	Blank	-	-	-	-	.031	-	-	-	
5/4	438	028	<	0.001	3.5	.024	.001	0		
						.072	.041	25		
						.106	.075	50		
						.154	.123	75		
6/4	405	028	<	0.001	10.1	.026	.005	0		
						.044	.010	25		
						.130	.089	50		
						.160	.129	75		
6/5	417	028	<	0.001	33.3	.037	.004	0		
						.072	.041	25		
						.115	.084	50		
						.169	.138	75		
		028				---	---	0		
						---	---	25		
						---	---	50		
						---	---	75		
		028				---	---	0		
						---	---	25		
						---	---	50		
						---	---	75		
		028				---	---	0		
						---	---	25		
						---	---	50		
						---	---	75		

* Required Quality Control Analyses (see Section II-G of Method)

% Recovery = $\frac{\text{Pb** in "Spiked" Sample} - \text{Avg. Pb** in Unspiked Sample}}{25.0} \times 100$

6/14/84
PB TMC ②

2816	0.307	BIKS
	0.308	
2817	0.309	
	0.310	
2818	0.011	
	0.312	
2819	0.035	101
	0.313	
2820	0.091	
	0.314	
2821	0.145	
	0.315	
2822	0.206	
	0.316	
2823	0.287	001
	0.317	
2824	0.355	
	0.318	
2825	0.409	
	0.319	
2826	0.406	
	0.320	
2827	0.291	001 DUP
	0.321	
2828	0.362	
	0.322	
2829	0.413	
	0.323	
2830	0.459	
	0.324	
2831	0.345	001 Spk
	0.325	
2832	0.406	
	0.326	
2833	0.473	
	0.327	
2834	0.530	
	0.328	
2835	0.313	661
	0.329	
2836	0.340	
	0.330	
2837	0.408	
	0.331	
2838	0.501	
	0.332	

WATER LABORATORY							Techn. <u>McCarthy</u>			
TOTAL LEAD ANALYSIS							Date <u>6-14-84</u>			
Use this method & Worksheet for NPDES analyses only							Worksheet for CD&P Method CW 72-1-94-8			
Date	Spot	ID	< ->	Reported Total Lead µg/liter	Lead Found µg/l**	Absorb.	Corr. Absorb.	"Known Addition"	Added "Spike" % Recovery	Remarks
6/14	Blank	-	-	-	-	007	-	-	-	
		028		13	-13.4	035 091 145 200	028 084 138 193	0 25 50 75	X	
	101									
		028		120	-120	287 355 409 466	280 348 402 459	0 25 50 75	X	
	001									
		028		122	-122	291 362 415 469	284 355 408 462	0 25 50 75	X	
	DUP 001									
		028		136	-136	345 406 473 530	338 399 466 523	0 25 50 75	60%	
	SPK 001									
		028		128	-128	318 380 438 501	311 373 431 494	0 25 50 75	X	
	661									
		028				---	---	0 25 50 75	X	

* Required Quality Control Analyses (see Section II-G of Method)

% Recovery = $\frac{\text{Pb** in "Spiked" Sample} - \text{Avg. Pb** in Unspiked Sample}}{25.0} \times 100$

0.000

0.000

0.001

0.000

0.000

0.002

0.000

0.000

0.000

0.004

0.000

0.004 *BLK*

0.000

0.019

0.000

0.079

0.000

0.134

0.000

0.194

0.000

0.000

0.197

0.000

0.260

0.000

0.325

0.000

0.365

0.000

0.000

0.209

0.000

0.000

0.212

0.000

0.214

0.000

0.205

0.000

0.264

0.000

0.320

0.000

0.394

0.000

0.000

0.256

0.000

0.324

0.000

0.343

0.000

0.404

0.000

0.753

0.000

0.362

0.000

0.915

0.000

0.912

0.000

101

001

001

dup.

001

spike

661

WATER LABORATORY
TOTAL LEAD ANALYSIS

Techn. F. Booth
Date 5/31/84

Use this method & Worksheet for
NPDES analyses only CD&P Method CW 72-1-94-8

Date	Spot	ID	< >	Reported Total Lead µg/liter	Lead Found µg/l**	Absorb.	Corr. Absorb.	"Known Addition"	Added "Spike" %* Recovery	Remarks
5/31	Blank	-	-	-	-	1004	-	-	-	
	101	028		1	-6.67	012 079 134 194	015 075 130 190	0 25 50 75	X	
	001	028		17	-76.8	197 260 325 385	193 256 321 381	0 25 50 75	X	
	001 dup	028		79	-79.1	205 264 320 394	201 260 316 390	0 25 50 75	X	
	001 spike	028		97	-96.8	258 324 393 454	254 320 389 450	0 25 50 75	75%	
	661	028		274	-274	768 862 915 982	764 858 911 978	0 25 50 75	X	
		028				---	---	0 25 50 75	X	

* Required Quality Control Analyses (see Section II-G of Method)

% Recovery = $\frac{\text{Pb** in "Spiked" Sample} - \text{Avg. Pb** in Unspiked Sample}}{25.0} \times 100$

0.000

0.000

0.000

0.011

0.000

0.000

0.000

0.000

0.000

0.024

0.000

0.071

0.000

0.120

0.000

0.179

0.000

0.000

0.246

0.000

0.352

0.000

0.361

0.000

0.412

0.000

0.000

0.247

0.000

0.302

0.000

0.365

0.000

0.420

0.000

0.331

0.000

0.365

0.000

0.422

0.000

0.480

0.000

0.403

0.000

0.402

0.000

0.314

0.000

0.359

BLK

101

001

001

dup

001

spike

641

WATER LABORATORY
TOTAL LEAD ANALYSIS

Techn. F. Beath
Date 7/19/84

Use this method & Worksheet for
NPDES analyses only for
CD&P Method CW 72-1-94-8

Date	Spot	ID	< >	Reported Total Lead ug/liter	Lead Found ug/l**	Absorb.	Corr. Absorb.	"Known Addition"	Added "Spike" %* Recovery	Remarks
7/19	Blank	-	-	-	-	1009	-	-	-	
	101	028		5	-519	022 071 120 179	013 062 111 170	0 25 50 75		
	001	028		107	-107	246 302 361 412	237 293 352 403	0 25 50 75		
	001 dup	028		104	-104	247 308 365 420	238 299 356 411	0 25 50 75		
	001 spike	028		124	-124	361 366 422 480	292 357 413 471	0 25 50 75	74%	
	661	028		180	-180	403 462 514 569	394 453 505 560	0 25 50 75		
		028				---	---	0 25 50 75		

* Required Quality Control Analyses (see Section II-G of Method)

% Recovery = $\frac{\text{Pb** in "Spiked" Sample} - \text{Avg. Pb** in Unspiked Sample}}{25.0} \times 100$

	0.000	
	0.000	
2815	-0.001	
	0.000	
	0.000	
2816	-0.000	BLP
	0.000	
2817	0.028	
	0.000	
2818	0.002	408
	0.000	
2819	0.100	
	0.000	
2820	0.227	
	0.000	
2821	0.000	
	0.000	
2822	0.077	411
	0.000	
2823	0.104	
	0.000	
2824	0.002	
	0.000	
2825	1 0.002	
	0.000	
2826	2 0.107	
	0.000	
2827	3 0.104	
	0.000	
2828	2 0.074	
	0.000	
2829	1 0.010	
	0.000	
2830	4 0.200	
	0.000	
2831	1 0.004	
	0.000	
2832	4 0.000	
	0.000	

WATER LABORATORY
TOTAL LEAD ANALYSIS

Techn. _____
Date 7/13/84

Use this method & _____ Worksheet
Worksheet for _____
NPDES analyses only for
CD&P Method CW 72-1-94-8

Date	Spot	ID	< >	Reported Total Lead ug/liter	Lead Found ug/l**	Absorb.	Corr. Absorb.	"Known Addition	Added Spike" %* Recovery	Remarks
7/13	Blank	-	-	-	-	0.00	-	-	-	
	408	028		10	9.99	---	028 092 155 227	0 25 50 75	X	
	411	028		4	3.65	---	001 077 144 202	0 25 50 75	X	
	429	028		1	1.35	---	002 074 137 205	0 25 50 75	X	
	441	028	<	1	0.58	---	008 064 134 225	0 25 50 75		
		028				---	---	0 25 50 75	X	
		028				---	---	0 25 50 75	X	

* Required Quality Control Analyses (see Section II-G of Method)

% Recovery = $\frac{\text{Pb** in "Spiked" Sample} - \text{Avg. Pb** in Unspiked Sample}}{25.0} \times 100$

7/27/84

4322	0.004	
Pb	0.004	
4323	0.022	
1324	0.076	
4325	0.130	101
4326	0.132	
4327	0.208	
4328	0.252	001
4329	0.315	
4330	0.371	
4331	0.250	
4332	0.259	
4333	0.319	D.
4334	0.379	
4335	0.258	
4336	0.318	
4337	0.374	
4338	0.435	
4339	0.379	
4340	0.438	
4341	0.491	6A
4342	0.550	

WATER LABORATORY
TOTAL LEAD ANALYSIS

Techn. McCarthy
Date 7-27-84

Use this method & Worksheet for
NPDES analyses only CD&P Method CW 72-1-94-8

Date	Spot	ID	< >	Reported Total Lead ug/liter	Lead Found ug/l**	Absorb.	Corr. Absorb.	"Known Addition	Added "Spike" %* Recovery	Remarks
7/27	Blank	-	-	-	-	004	-	-	-	
7/26	101	028		9.0	8.6	002	018	0	X	
						016	012	25		
						130	126	50		
						182	178	75		
	001	028		84.1	84.1	000	196	0	X	
						252	248	25		
						315	311	50		
						371	367	75		
	001 Dup	028		82.0	81.9	000	196	0	X	
						259	255	25		
						319	315	50		
						379	375	75		
	001 Spk	028		106.0	106	256	252	0	X	92.0
						316	312	25		
						374	370	50		
						435	431	75		
	661	028		166.0	166	379	375	0	X	
						438	434	25		
						491	487	50		
						550	546	75		
		028				---	---	0	X	
						---	---	25		
						---	---	50		
						---	---	75		

* Required Quality Control Analyses (see Section II-G of Method)

% Recovery = $\frac{\text{Pb** in "Spiked" Sample} - \text{Avg. Pb** in Unspiked Sample}}{25.0} \times 100$

-0.001

0.000

0.025

0.000

0.095

0.000

0.147

0.000

0.223

0.000

0.215

0.000

0.332

0.000

0.356

0.000

0.431

0.000

0.210

0.000

0.283

0.000

0.357

0.000

0.424

0.000

0.281

0.000

0.356

0.000

0.421

0.000

0.538

0.000

0.211

0.000

0.277

0.000

0.356

0.000

0.423

0.000

WATER LABORATORY
TOTAL LEAD ANALYSIS

Techn. McCarthy
Date 8-3-84

Use this method & _____ Worksheet _____
Worksheet for _____
NPDES analyses only for _____
CD&P Method CW 72-1-94-8

Date	Spot	ID	< >	Reported Total Lead ug/liter	Lead Found ug/l**	Absorb.	Corr. Absorb.	"Known Addition"	Added "Spike" %* Recovery	Remarks
8/3	Blank	-	-	-	-	001	-	-	-	
		028		10	-10.1	095 096 147 223	096 096 148 224	0 25 50 75	X	
8/2	101	028		7.8	-78.1	215 302 356 431	216 303 357 432	0 25 50 75	X	
	001	028		74	-74.0	212 283 357 424	211 284 358 425	0 25 50 75	X	
	DUP 001	028		80	-80.4	281 358 421 538	282 359 422 539	0 25 50 75	16.4	
	661	028		74	-73.7	211 277 353 423	212 278 354 424	0 25 50 75	X	
		028				---	---	0 25 50 75	X	

* Required Quality Control Analyses (see Section II-G of Method)

% Recovery = $\frac{\text{Pb** in "Spiked" Sample} - \text{Avg. Pb** in Unspiked Sample}}{25.0} \times 100$

0.000
 -0.093
 0.000
 0.015
 0.010
 0.012
 0.000
 0.034
 0.000
 0.100
 0.000
 0.146
 0.000
 0.228
 0.000
 0.201
 0.000
 0.276
 0.000
 0.348
 0.000
 0.407
 0.000
 0.207
 0.000
 0.254
 0.000
 0.350
 0.000
 0.417
 0.000
 0.257
 0.000
 0.347
 0.000
 0.422
 0.000
 0.481
 0.000
 0.266
 0.000
 0.345
 0.000
 0.404
 0.000
 0.473
 0.000

8/9/84
 36
 M/C

WATER LABORATORY

TOTAL LEAD ANALYSIS

Techn. McCarthy
Date 8-9-84

Use this method & Worksheet for
NPDES analyses only CD&P Method CW 72-1-94-8

Date	Spot	ID	< >	Reported Total Lead µg/liter	Lead Found µg/l**	Absorb.	Corr. Absorb.	"Known Addition"	Added "Spike" % Recovery	Remarks
8/9	Blank	-	-	-	-	0.2	-	-	-	
		028		8.0	-7.8	034 100 146 228	022 088 134 216	0 25 50 75	X	
	101									
		028		69.0	-69.4	201 276 348 407	189 264 336 395	0 25 50 75	X	
	001									
		028		71.0	-71.0	207 284 350 417	195 272 338 405	0 25 50 75	X	
	001 DUP									
		028		77.0	-77.4	257 347 422 481	235 335 410 469	0 25 50 75	28%	
	001 SPK									
		028		94.0	93.7	267 346 404 478	256 334 392 466	0 25 50 75	X	
	661									
		028				---	---	0 25 50 75	X	

* Required Quality Control Analyses (see Section II-G of Method)

% Recovery = $\frac{\text{Pb** in "Spiked" Sample} - \text{Avg. Pb** in Unspiked Sample}}{25.0} \times 100$

Pb
7/10/74
Mac

0.000
0.004
0.000
0.014
0.000
0.004
0.000
0.109
0.000
0.106
0.000
0.243
0.000
0.000
0.000
0.358
0.000
0.405
0.000
0.245
0.000
0.306
0.000
0.349
0.000
0.421
0.000
0.273
0.000
0.348
0.000
0.391
0.000
0.456
0.000
0.261
0.000
0.318
0.000
0.368
0.000
0.421
0.000

WATER LABORATORY
TOTAL LEAD ANALYSIS

Techn. McCarthy
Date 8-16-84

Use this method & Worksheet for
NPDES analyses only CD&P Method CW 72-1-94-8

Date	Spot	ID	< >	Reported Total Lead ug/liter	Lead Found ug/l**	Absorb.	Corr. Absorb.	"Known Addition"	Added "Spike" % Recovery	Remarks
8/16	Blank	-	-	-	-	004	-	-	-	
	101	028		6.0	-5.9	014 064 109 156	040 060 105 152	0 25 50 75	X	
	001	028		111.0	-111.0	243 303 358 405	239 299 350 401	0 25 50 75	X	
	Dup 001	028		104	-104.0	243 306 349 421	241 302 345 417	0 25 50 75	X	
	Spk 001	028		119	-119.0	278 348 391 456	274 340 387 452	0 25 50 75	46%	
	661	028		122.0	-122.0	261 318 368 421	257 314 364 417	0 25 50 75	X	
		028				---	---	0 25 50 75	X	

* Required Quality Control Analyses (see Section II-G of Method)

% Recovery = $\frac{\text{Pb** in "Spiked" Sample} - \text{Avg. Pb** in Unspiked Sample}}{25.0} \times 100$

63.90
56.65

7.25

0.000
0.000
-0.001
0.000
0.000
0.000
0.000

0.004 BLK

0.000
0.000
0.000
0.000
0.000
0.129
0.000
0.157

101

0.000
0.102
0.000
0.100
0.000
0.240
0.000
0.301

001

0.000
0.000
0.102
0.000
0.100
0.000
0.240
0.000
0.294

001

dup

0.000
0.100
0.000
0.209
0.000
0.295
0.000
0.347

001

spike

0.000
0.212
0.000
0.200
0.000
0.323
0.000
0.301
0.000

001

WATER LABORATORY
TOTAL LEAD ANALYSIS

Techn.
Date

Use this method & Worksheet for
NPDES analyses only CD&P Method CW 72-1-94-8

Date	Spot	ID	< >	Reported Total Lead µg/liter	Lead Found µg/l**	Absorb.	Corr. Absorb.	"Known Addition"	Added "Spike" %* Recovery	Remarks
8/20	Blank	-	-	-	-	-	-	-	-	
		028				0.12	0.18	0	X	
						0.11	0.17	25		
	101		<	1	0.15	0.12	0.18	50		
						0.11	0.17	75		
		028		90	89.9	0.11	0.17	0	X	
						0.11	0.17	25		
						0.11	0.17	50		
						0.11	0.17	75		
		028		92	92	0.11	0.17	0	X	
						0.11	0.17	25		
						0.11	0.17	50		
						0.11	0.17	75		
		028		136	136	0.11	0.17	0	X	
						0.11	0.17	25		
						0.11	0.17	50		180%
						0.11	0.17	75		
		028				0.11	0.17	0	X	
						0.11	0.17	25		
						0.11	0.17	50		56%
						0.11	0.17	75		
		028				0.11	0.17	0	X	
						0.11	0.17	25		
						0.11	0.17	50		
						0.11	0.17	75		

* Required Quality Control Analyses (see Section II-G of Method)

% Recovery = $\frac{\text{Pb** in "Spiked" Sample} - \text{Avg. Pb** in Unspiked Sample}}{25.0} \times 100$

WATER LABORATORY
TOTAL LEAD ANALYSIS

Techn. McCarthy
Date 9-5-84

Use this method & Worksheet for
NPDES analyses only CD&P Method CW 72-1-94-8

Date	Spot	ID	< >	Reported Total Lead ug/liter	Lead Found ug/l**	Absorb.	Corr. Absorb.	"Known Addition	Added "Spike" % Recovery	Remarks
9/5	Blank	-	-	-	-	.011	-	-	-	
9/4	405	028		1	-.61	.011 .082 .150 .214	.000 .071 .139 .203	0 25 50 75	X	
9/4	417	028	<	1	+1.42	.008 .074 .147 .214	-.003 .063 .136 .203	0 25 50 75	X	
8/3	438	028	<	1	+1.46	.008 .084 .142 .221	-.003 .073 .137 .210	0 25 50 75	X	
		028				---	---	0 25 50 75		
		028				---	---	0 25 50 75	X	
		028				---	---	0 25 50 75	X	

* Required Quality Control Analyses (see Section II-G of Method)

% Recovery = $\frac{\text{Pb** in "Spiked" Sample} - \text{Avg. Pb** in Unspiked Sample}}{25.0} \times 100$

0.000
-0.007
0.000
0.015
0.000
0.015
0.000
0.010
0.000
0.067
0.000
0.117
0.000
0.175
0.000

WATER LABORATORY
TOTAL LEAD ANALYSIS

Techn. McCarthy
Date 7-23-84

Use this method & _____ Worksheet
Worksheet for _____
NPDES analyses only for _____
CD&P Method CW 72-1-94-8

Date	Spot	ID	< >	Reported Total Lead µg/liter	Lead Found µg/l**	Absorb.	Corr. Absorb.	"Known Addition"	"Added Spike" %** Recovery	Remarks
7/23	Blank	-	-	-	-	015	-	-	-	
7/16	456	028	<	001	2.1	010 067 117 175	005 052 102 160	0 25 50 75	X	
		028				---	---	0 25 50 75	X	
		028				---	---	0 25 50 75	X	
		028				---	---	0 25 50 75	X	
		028				---	---	0 25 50 75	X	
		028				---	---	0 25 50 75	X	
		028				---	---	0 25 50 75	X	

* Required Quality Control Analyses (see Section II-G of Method)

% Recovery = $\frac{\text{Pb** in "Spiked" Sample} - \text{Avg. Pb** in Unspiked Sample}}{25.0} \times 100$

WATER LABORATORY
TOTAL LEAD ANALYSIS

Techn. L. Meyer
Date 9-6-84

Use this method & Worksheet for
NPDES analyses only for
CD&P Method CW 72-1-94-8

Date	Spot	ID	< >	Reported Total Lead µg/liter	Lead Found µg/l**	Absorb.	Corr. Absorb.	"Known Addition"	Added "Spike" % Recovery	Remarks
9/6	Blank	-	-	-	-	0.00	-	-	-	
	101	028		7	7.0	0.53 1.17 1.85 2.67	- - - -	0 25 50 75	X	
	001	028		46	46.3	1.75 2.46 3.22 4.39	- - - -	0 25 50 75	X	
	001 Dup	028		49	48.7	1.82 2.50 3.17 4.42	- - - -	0 25 50 75	X	
	001 SPIKE	028		71	70.9	2.14 2.79 3.67 4.32	- - - -	0 25 50 75		
↓	661	028		100	100	2.66 4.51 5.16 6.38	- - - -	0 25 50 75	X	
		028				- - - -	- - - -	0 25 50 75	X	

* Required Quality Control Analyses (see Section II-G of Method)

% Recovery = $\frac{\text{Pb** in "Spiked" Sample} - \text{Avg. Pb** in Unspiked Sample}}{25.0} \times 100$

92.0%

4341 U.366
U.360
4342 U.451
U.450
4343 U.516
U.510
4344 U.538
U.530

661

4320	0.053
	0.000
4321	0.117
	0.000
4322	0.135
	0.000
4323	0.257

101

4324	0.000
4325	0.000
4326	0.000
4327	0.000
4328	0.000

001
SPUR

4329	0.175
	0.000
4330	0.246
	0.000
4331	0.322
	0.000
	0.000
4332	0.439
	0.000

001

4333	0.182
	0.000
4334	0.250
	0.000
4335	0.327
	0.000
4336	0.442

001
DUP

0.000

2819	-0.001	
	0.000	
	0.000	
	0.000	
2820	0.001	BLI
	0.000	
2821	0.006	
	0.000	
2822	0.045	101
	0.000	
2823	0.080	
	0.000	
2824	0.126	
	0.000	
2825	0.111	
	0.000	
2826	0.152	001
	0.000	
2827	0.194	
	0.000	
2828	0.236	
	0.000	
	0.000	
2829	0.112	001
	0.000	
2830	0.150	dup
	0.000	
2831	0.195	
	0.000	
2832	0.236	
	0.000	
2833	0.148	
	0.000	
2834	0.188	001
	0.000	spek
2835	0.232	
	0.000	
2836	0.275	
	0.000	
2837	0.476	
	0.000	661
2838	0.523	
	0.000	
2839	0.571	
	0.000	
2840	0.622	
	0.000	

WATER LABORATORY
TOTAL LEAD ANALYSIS

Techn. J. Booth
Date 9/13/84

Use this method & Worksheet
Worksheet for
NPDES analyses only CD&P Method CW 72-1-94-8

Date	Spot	ID	< >	Reported Total Lead µg/liter	Lead Found µg/l**	Absorb.	Corr. Absorb.	"Known Addition"	Added "Spike" %* Recovery	Remarks
9/13	Blank	-	-	-	-	1001	-	-	-	
	101	028		2	-2.41	006 045 080 126	005 044 079 125	0 25 50 75	X	
	001	028		66	-65.8	111 152 194 236	110 151 193 235	0 25 50 75	X	
	001 dup	028		66	-65.7	112 150 195 236	111 149 194 235	0 25 50 75	X	
	001 spike	028		86	-85.8	148 188 232 275	147 187 231 274	0 25 50 75	80% sp	
	661	028		244	-244	416 523 571 622	415 522 570 621	0 25 50 75	X	
		028				---	---	0 25 50 75	X	

* Required Quality Control Analyses (see Section II-G of Method)

% Recovery = $\frac{\text{Pb** in "Spiked" Sample} - \text{Avg. Pb** in Unspiked Sample}}{25.0} \times 100$

9/21/84

U.0000
U.0000
U.0015 - B11C
U.0000
U.0031 } 101
U.0000 }
U.0000 } 9/20/84
U.0000 }
U.144 }
U.0000 }
U.200 }
U.0000 }
U.229 }
U.0000 } 001
U.297 } 9/20/84
U.0000 }
U.347 }
U.0000 }
U.404 }
U.0000 }
U.222 } 001
U.0000 } DUP
U.253 }
U.0000 } 9/20/84
U.336 }
U.0000 }
U.411 }
U.0000 }
U.252 } 001
U.0000 } SPK
U.351 } 9/20/84
U.0000 }
U.405 }
U.0000 }
U.471 }
U.0000 }
U.549 } 661
U.0000 } 9/20/84
U.631 }
U.0000 }
U.695 }
U.0000 }
U.743 }
U.0000 }

WATER LABORATORY
TOTAL LEAD ANALYSIS

Techn. McCarthy
Date 9-21-84

Use this method & Worksheet for
NPDES analyses only for
CDAP Method CW 72-1-94-8

Date	Spot	ID	< >	Reported Total Lead ug/liter	Lead Found ug/l**	Absorb.	Corr. Absorb.	"Known Addition"	Added "Spike" % Recovery	Remarks
9/21	Blank	-	-	-	-	0.15	-	-	-	
9/20	101	028		7.0	-7.24	0.31 0.88 1.44 2.00	0.16 0.73 1.29 1.85	0 25 50 75	X	
	001	028		94.3	-94.3	2.29 2.97 3.47 4.04	2.14 2.82 3.32 3.89	0 25 50 75	X	
	001 DUP	028		82.1	-82.1	2.22 2.83 3.36 4.11	2.07 2.68 3.21 3.96	0 25 50 75	X	
	001 Spike	028		108.0	-108	2.82 3.51 4.05 4.71	2.67 3.36 3.90 4.56	0 25 50 75	79.2%	
	661	028		207.0	-207	5.49 6.31 6.95 7.43	5.34 6.16 6.80 7.28	0 25 50 75	X	
		028				---	---	0 25 50 75	X	

* Required Quality Control Analyses (see Section II-G of Method)
% Recovery = $\frac{\text{Pb** in "Spiked" Sample} - \text{Avg. Pb** in Unspiked Sample}}{25.0} \times 100$

9/27/84

Pb

U.000
U.011
U.000
U.029
U.000
J.008
U.000
J.153
U.000
J.223
U.000
U.242
J.000
J.000
U.000
J.000
U.434
U.000
J.247
J.000
J.308
J.000
U.302
J.000
U.426
U.000
U.311
U.000
U.371
J.000
U.410
U.000
J.490
U.000
U.758
U.000
U.000
J.000
U.914
U.000
J.902
U.000

WATER LABORATORY
TOTAL LEAD ANALYSIS

Techn. McCarthy
Date 9-27-84

Use this method & Worksheet for
NPDES analyses only CD&P Method CW 72-1-94-8

Date	Spot	ID	< >	Reported Total Lead µg/liter	Lead Found µg/l**	Absorb.	Corr. Absorb.	"Known Addition	Added "Spike" µg Recovery	Remarks
9/27	Blank	-	-	-	-	011	-	-	-	
		028			7.44	029 098 153 223	012 087 142 212	0 25 50 75	X	
	101					242 Broken 360 434	231 - 349 423	0 25 50 75	X	
		028			90.0	247 308 362 426	236 227 351 415	0 25 50 75	X	
	DUP 001	028			99.1	311 371 418 495	300 360 407 484	0 25 50 75	X	
	SPK 001	028			123	758 868 914 982	747 857 903 971	0 25 50 75	X	
	661	028			256	---	---	0 25 50 75	X	
		028				---	---	0 25 50 75	X	

* Required Quality Control Analyses (see Section II-G of Method)
% Recovery = $\frac{\text{Pb** in "Spiked" Sample} - \text{Avg. Pb** in Unspiked Sample}}{25.0} \times 100$

WATER LABORATORY
TOTAL LEAD ANALYSIS

Techn. L. Morgan
Date 10-4-84

Use this method & Worksheet for
NPDES analyses only CD&P Method CW 72-1-94-8

Date	Spot	ID	< >	Reported Total Lead µg/liter	Lead Found µg/l**	Absorb.	Corr. Absorb.	"Known" Addition	"Added" Spike" %* Recovery	Remarks
10/4	Blank	-	-	-	-	004	-	-	-	
	101	028		6	5.8	015 073 121 177	011 069 118 173	0 25 50 75	X	
	001	028		58	-58.0	146 214 268 334	142 210 264 330	0 25 50 75	X	
	001 Duplicate*			60	59.5	149 221 263 338	145 217 259 334	0 25 50 75	X	
	001 "Spike"* 25 µg/l				80.9	199 256 322 377	195 252 318 373	0 25 50 75		
↓	661	028		135	135	334 395 461 517	330 394 457 513	0 25 50 75	X	
		028				---	---	0 25 50 75	X	

* Required Quality Control Analyses (see Section II-G of Method)

% Recovery = $\frac{\text{Pb** in "Spiked" Sample} - \text{Avg. Pb** in Unspiked Sample}}{25.0} \times 100$

88.4%

RE

0.000
0.000
0.000
0.002

0.000
0.015
0.000
0.073
0.000
0.121
0.000
0.177
0.000

101

0.146
0.000
0.214
0.000
0.268
0.000
0.334
0.000

001

0.149
0.000
0.221
0.000
0.203
0.000
0.338
0.000

001
Dup

[Handwritten scribbles]

001
SPIKE

0.199
0.000
0.256
0.000
0.322
0.000
0.377
0.000

661

0.334
0.000
0.395
0.000
0.461
0.000
0.517
0.000

Blank

-0.025
0.000
0.000
0.000
0.000
0.000

10-11-84
PB

	0.000	
	0.000	
2814	0.002	~B1K
	0.000	
2815	0.003	
	0.000	
2816	0.009	101
	0.000	
2817	0.013	
	0.000	
2818	0.018	
	0.000	
2819	0.012	
	0.000	
2820	0.019	001
	0.000	
2821	0.024	
	0.000	
2822	0.029	
	0.000	
2823	0.012	
	0.000	
2824	0.017	04P
	0.000	
2825	0.0234	
	0.000	
2826	0.0172	
	0.000	
2827	0.015	
	0.000	
2828	0.023	SPK
	0.000	
2829	0.029	
	0.000	
2830	0.035	
	0.000	
2831	0.0313	
	0.000	
2832	0.0374	66'
	0.000	
2833	0.022	
	0.000	
2834	0.015	
	0.000	

WATER LABORATORY
TOTAL LEAD ANALYSIS

Techn. McCarthy
Date 10-11-84

Use this method &
Worksheet for
NPDES analyses only

Worksheet
for
CD&P Method CW 72-1-94-8

Date	Spot	ID	< >	Reported Total Lead µg/liter	Lead Found µg/l**	Absorb.	Corr. Absorb.	"Known Addition"	Added "Spike" %* Recovery	Remarks
10/11	Blank	-	-	-	-	002	-	-	-	
						003	001	0		
		028		6.9	-6.9	009	007	25		
	101			7.0		013	011	50		
						018	016	75		
						012	010	0		
		028		45	-44.6	018	016	25		
						024	022	50		
	001					029	027	75		
						012	010	0		
	001				-66.0	017	015	25		
	Duplicate*					017	015	50		
						023	021	75		
						015	013	0		
	001				-51.0	023	021	25		
	"Spike"*					029	027	50		
	25 µg/l					035	033	75		
						015	013	0		
	661	028		43	-42.9	022	020	25		
						031	029	50		
						037	035	75		
						---	---	0		
		028				---	---	25		
						---	---	50		
						---	---	75		

* Required Quality Control Analyses (see Section II-G of Method)

% Recovery = $\frac{\text{Pb** in "Spiked" Sample} - \text{Avg. Pb** in Unspiked Sample}}{25.0} \times 100$

	0.000	
2824	0.000	31K
1	0.000	
2825	0.012	
	0.000	
2826	0.073	441
	0.000	
2827	0.132	
	0.000	
2828	0.240	
	0.000	
2829	-0.015	
	0.000	
2830	0.049	
	0.000	441
2831	0.108	
	0.000	
2832	0.163	
	0.000	

WATER LABORATORY
TOTAL LEAD ANALYSIS

Techn. McCarthy
Date 10-15-94

Use this method & Worksheet for
NPDES analyses only for
CD&P Method CW 72-1-94-8

Date	Spot	ID	< >	Reported Total Lead µg/liter	Lead Found µg/l**	Absorb.	Corr. Absorb.	"Known Addition	Added "Spike" %* Recovery	Remarks
	Blank	-	-	-	-	009	-	-	-	
		028	<	001	+3.45	012 073 132 240	003 064 023 237	0 25 50 75		
	441									
		028	<	001	+9.91	015 049 108 183	024 046 099 174	0 25 50 75		
	441									
	Duplicate*							0 25 50 75		
	"Spike"* 25 µg/l							0 25 50 75		
		028						0 25 50 75		
		028						0 25 50 75		

* Required Quality Control Analyses (see Section II-G of Method)

$$\% \text{ Recovery} = \frac{\text{Pb** in "Spiked" Sample} - \text{Avg. Pb** in Unspiked Sample}}{25.0} \times 100$$

	0.000	
	0.000	
	0.000	
2811	0.009	<i>BLK</i>
	0.000	
2812	0.009	
	0.000	
2813	0.019	
	0.000	
2814	0.072	
	0.000	
2815	0.115	<i>101</i>
	0.000	
2816	0.172	
	0.000	
2817	0.143	
	0.000	
2818	0.180	<i>001</i>
	0.000	
2819	0.242	
	0.000	
2820	0.291	
	0.000	
	0.000	
2821	0.145	
	0.000	<i>001</i>
2822	0.189	
	0.000	<i>dup</i>
2823	0.238	
	0.000	
2824	0.270	
	0.000	
2825	0.185	
	0.000	
2826	0.238	<i>001</i>
	0.000	<i>spike</i>
2827	0.290	
	0.000	
2828	0.345	
	0.000	

WATER LABORATORY						Techn. <u>F. Boath</u>				
TOTAL LEAD ANALYSIS						Date <u>10/19/84</u>				
Use this method & Worksheet for NPDES analyses only				Worksheet for CD&P Method CW 72-1-94-8						
Date	Spot	ID	< >	Reported Total Lead µg/liter	Lead Found µg/l**	Absorb.	Corr. Absorb.	"Known Addition Recovery	Added "Spike" %*	Remarks
10/18	Blank	-	-	-	-	1.009	-	-	-	
	101	028		5	4.97	0.72 1.15 1.72	0.10 0.63 1.06 1.63	0 25 50 75	X	
	001	028		66	66.3	1.43 1.88 2.41 2.91	1.34 1.79 2.33 2.82	0 25 50 75	X	
	001 Duplicate*			66	65.7	1.45 1.89 2.38 2.96	1.36 1.80 2.29 2.87	0 25 50 75	X	
	001 "Spike"* 25 µg/l				82.6	1.85 2.38 2.90 3.45	1.76 2.29 2.81 3.36	0 25 50 75	66%	
		028				---	---	0 25 50 75	X	
		028				---	---	0 25 50 75	X	

* Required Quality Control Analyses (see Section II-G of Method)

% Recovery = $\frac{\text{Pb** in "Spiked" Sample} - \text{Avg. Pb** in Unspiked Sample}}{25.0} \times 100$

10/23/84
Cr +6
WJ. 8x4

U.000
-U.003
U.000
-U.001
U.000
-U.004

BLK

U.000
U.000

U.000
U.059

U.000
U.122

U.000
U.187

U.000
U.002

U.000
U.058

U.000
U.112

U.000
U.160

U.000
U.001

U.000
U.056

U.000
U.109

U.000
U.133

U.000
U.031

U.000
U.091

U.000
U.143

U.000
U.207

U.000
-U.002

U.000
U.026

U.000
U.035

U.000
U.101

U.000
U.000

101

001

001

Dup

001

Spike

456

10/17/84

WATER LABORATORY
TOTAL LEAD ANALYSIS

Techn. McCarthy
Date 10-26-84

Use this method &
Worksheet for
NPDES analyses only

Worksheet
for
CD&P Method CW 72-1-94-8

Date	Spot	ID	< >	Reported Total Lead µg/liter	Lead Found µg/l**	Absorb.	Corr. Absorb.	"Known Addition"	Added "Spike" %* Recovery	Remarks
10/26	Blank	-	-	-	-	003	-	-	-	
	456	028		212	212	601 658 703 808	598 655 700 805	0 25 50 75	X	
		028				---	---	0 25 50 75	X	
	Duplicate*	X				---	---	0 25 50 75	X	
	"Spike"* 25 µg/l					---	---	0 25 50 75		
		028				---	---	0 25 50 75	X	
		028				---	---	0 25 50 75	X	

* Required Quality Control Analyses (see Section II-G of Method)

% Recovery = $\frac{\text{Pb** in "Spiked" Sample} - \text{Avg. Pb** in Unspiked Sample}}{25.0} \times 100$

11-1-84
Pb

2813	0.000
	0.009
	0.000
2814	0.026
	0.000
2815	0.079
	0.000
2816	0.138
	0.000
2817	0.200
	0.000
2818	0.173
	0.000
2819	0.233
	0.000
2820	0.291
	0.000
2821	0.358
	0.000
2822	0.176
	0.000
2823	0.234
	0.000
2824	0.297
	0.000
2825	0.344
	0.000
2826	0.197
	0.000
2827	0.299
	0.000
2828	0.333
	0.000
2829	0.418
	0.000
2830	0.295
	0.000
2831	0.375
	0.000
2832	0.418
	0.000
2833	0.192
	0.000

WATER LABORATORY
TOTAL LEAD ANALYSIS

Techn. McCarthy
Date 11-1-84

Use this method & Worksheet for
NPDES analyses only for
CD&P Method CW 72-1-94-8

Date	Spot	ID	< >	Reported Total Lead µg/liter	Lead Found µg/l**	Absorb.	Corr. Absorb.	"Known Addition"	Added "Spike" %* Recovery	Remarks
11/1	Blank	-	-	-	-	009	-	-	-	
	101	028		6	6.23	026 079 138 200	017 070 129 191	0 25 50 75	X	
	001	028		66	66.3	173 233 297 358	164 224 282 349	0 25 50 75	X	
	001 Duplicate*	X			75.5	178 224 297 344	162 225 288 335	0 25 50 75	X	
	001 "Spike"* 25 µg/l				67.4	197 299 363 418	189 290 354 409	0 25 50 75	< 1%	
	661	028		113	113	295 375 418 492	286 366 409 483	0 25 50 75	X	
		028				---	---	0 25 50 75	X	

* Required Quality Control Analyses (see Section II-G of Method)

% Recovery = $\frac{\text{Pb** in "Spiked" Sample} - \text{Avg. Pb** in Unspiked Sample}}{25.0} \times 100$

2812	-0.043
	0.030
2813	-0.003
	0.000
2814	-0.001

	0.000
2815	0.014
	0.010
2816	0.040
	0.000
2817	0.067
	0.000
2818	0.093

	0.000
2819	0.007
2820	0.007

	0.000
2821	0.056
	0.000
2822	0.075
	0.000
2823	0.112
	0.000
2824	0.140

2825	0.052	<i>001</i> <i>Dup</i>
	0.053	
2826	0.077	
	0.078	
2827	0.114	
	0.058	
2828	0.140	

	0.056	<i>SPICE</i>
2829	0.072	
	0.050	
2830	0.111	
	0.050	
2831	0.081	
	0.050	
2832	0.159	

	0.050	<i>661</i>
2833	0.146	
	0.050	
2834	0.156	
	0.050	
2835	0.258	
	0.050	
2836	0.317	

WATER LABORATORY										Techn.
TOTAL LEAD ANALYSIS										Date
Use this method & Worksheet for NPDES analyses only										for CD&P Method CW 72-1-94-8
Date	Spot	ID	< >	Reported Total Lead µg/liter	Lead Found µg/l**	Absorb.	Corr. Absorb.	"Known Addition	Added "Spike" %* Recovery	Remarks
11/8	Blank	-	-	-	-	007	-	-	-	
	101	028		7	6.1	014 040 067 093	007 033 060 086	0 25 50 75		
	001	028		38	38.2	056 075 112 140	049 068 085 133	0 25 50 75		
	001 Duplicate*				36.7	053 077 0114 140	046 070 107 133	0 25 50 75		
	001 "Spike"* 25 µg/l				52.7	072 111 169	065 104 162	0 25 50 75		
	661	028		56	56.3	146 184 254 317	139 181 251 310	0 25 50 75		
		028				---	---	0 25 50 75		

* Required Quality Control Analyses (see Section II-G of Method)

% Recovery = $\frac{\text{Pb** in "Spiked" Sample} - \text{Avg. Pb** in Unspiked Sample}}{25.0} \times 100$

64%

11-15-74
Pb TMC

	0.000	
	0.000	
2814	0.006	B1K
	0.000	
2815	0.032	
	0.000	
2816	0.098	
	0.000	
2817	0.157	101
	0.000	
2818	0.217	
	0.000	
2819	0.144	
	0.000	
2820	0.204	001
	0.000	
2821	0.265	
	0.000	
2822	0.306	
	0.000	
2823	0.135	
	0.000	
2824	0.206	D4P
	0.000	
2825	0.256	
	0.000	
2826	0.323	
	0.000	
2827	0.208	
	0.000	
2828	0.274	SPK
	0.000	
2829	0.342	
	0.000	
2830	0.406	
	0.000	
2831	0.428	
	0.000	
2832	0.505	661
	0.000	
2833	0.552	
	0.000	
2834	0.621	
	0.000	

WATER LABORATORY
TOTAL LEAD ANALYSIS

Techn. McCarthy
Date 11-15-84

Use this method &
Worksheet for
NPDES analyses only

Worksheet
for
CD&P Method CW 72-1-94-8

Date	Spot	ID	< >	Reported Total Lead µg/liter	Lead Found µg/l**	Absorb.	Corr. Absorb.	"Known Addition"	Added "Spike" %* Recovery	Remarks
11/15	Blank	-	-	-	-	006	-	-	-	
		028		11	-11.0	032 096 151 217	026 090 151 211	0 25 50 75		
	101									
		028		64	-64.0	144 204 265 306	138 198 259 300	0 25 50 75		
	001									
	001	X			-52.9	135 206 268 323	129 200 262 317	0 25 50 75		
	Duplicate*									
	001				-76.3	208 274 342 406	202 268 336 400	0 25 50 75	71.2	
	"Spike"* 25 µg/l									
		028		169	-169	428 505 552 621	422 499 546 615	0 25 50 75		
	661									
		028				---	---	0 25 50 75		

* Required Quality Control Analyses (see Section II-G of Method)

% Recovery = $\frac{\text{Pb** in "Spiked" Sample} - \text{Avg. Pb** in Unspiked Sample}}{25.0} \times 100$

PB
11/29/84 F.B

0.000
0.000
0.000
0.000
-0.000
-0.003
0.000
0.000
-0.003
0.000
0.000
0.010
0.012
0.012
0.000
0.010

~~0.007~~ BLR

~~0.011~~
0.011
0.011 101
0.029
0.030
0.051
0.000
0.070

~~0.067~~
0.067 001
0.087
0.106
0.122

~~0.080~~
0.080 001
0.070 dup
0.090
0.100
0.124

~~0.080~~
0.080 001
0.087 apic
0.116
0.129
0.151

~~0.080~~
0.080 66.1
0.095
0.115
0.136
0.157
0.000

	0.000
2823	-0.002
	0.000
2824	0.015
	0.000
2825	0.078
	0.000
2826	0.106
	0.000
2827	0.145
	0.000

WATER LABORATORY TOTAL LEAD ANALYSIS							Techn. <u>McCarthy</u> Date <u>11-26-84</u>			
Use this method & Worksheet for NPDES analyses only							Worksheet for CD&P Method CW 72-1-94-8			
Date	Spot	ID	< >	Reported Total Lead µg/liter	Lead Found µg/l**	Absorb.	Corr. Absorb.	"Known Addition"	Added "Spike" %* Recovery	Remarks
	Blank	-	-	-	-	0.02	-	-	-	
	470	028		13.7	13.7	0.15 0.78 1.06 1.45	0.17 0.80 1.08 1.47	0 25 50 75	X	
		028				---	---	0 25 50 75	X	
	Duplicate*					---	---	0 25 50 75	X	
	"Spike"* 25 µg/l					---	---	0 25 50 75		
		028				---	---	0 25 50 75	X	
		028				---	---	0 25 50 75	X	

* Required Quality Control Analyses (see Section II-G of Method)

% Recovery = $\frac{\text{Pb** in "Spiked" Sample} - \text{Avg. Pb** in Unspiked Sample}}{25.0} \times 100$

0.000
0.313
0.000
0.033
0.000
0.108
0.000
0.236
0.000
0.166
0.000
0.236
0.000
0.202
0.000
0.277
0.000
0.335
0.000
0.397
0.000
0.209
0.000
0.278
0.000
0.347
0.000
0.414
0.000
0.270
0.000
0.351
0.000
0.399
0.000
0.430
0.000
0.421
0.000
0.499
0.000
0.570
0.000
0.654
0.000

WATER LABORATORY
TOTAL LEAD ANALYSIS

Techn. McCarthy
Date 11-29-84

Use this method & Worksheet for
NPDES analyses only for
CD&P Method CW 72-1-94-8

Date	Spot	ID	< >	Reported Total Lead µg/liter	Lead Found µg/l**	Absorb.	Corr. Absorb.	"Known Addition"	Added "Spike" %* Recovery	Remarks
11/29	Blank	-	-	-	-	013	-	-	-	
		028		16	-16.1	033 108 Xyx 166	620 095 Xyx 153	0 25 50 75		
	101									
		028		75	-74.8	202 277 335 397	189 264 322 384	0 25 50 75		
	001									
	601 Duplicate			72	-71.8	209 278 347 414	196 265 334 407	0 25 50 75		
	001 "Spike"* 25 µg/l			95	-94.7	270 351 399 470	257 338 386 467	0 25 50 75	86	
		028		132	-132	421 499 570 654	408 486 557 641	0 25 50 75		
	661									
		028						0 25 50 75		

* Required Quality Control Analyses (see Section II-G of Method)

% Recovery = $\frac{\text{Pb** in "Spiked" Sample} - \text{Avg. Pb** in Unspiked Sample}}{25.0} \times 100$

2814	0.010	
2815	0.009	BLK
2816	0.008	
2817	0.019	
2818	0.053	
2819	0.093	101
2820	0.130	
2821	0.169	
2822	0.207	001
2823	0.247	
2824	0.273	
2825	0.170	001
2826	0.208	
2827	0.249	dup
2828	0.271	
2829	0.277	
2830	0.206	001
2831	0.240	spike
2832	0.243	
2833	0.323	
2834	0.930	
2835	1.010	661
2836	1.068	
2837	1.093	
	0.000	
	0.000	

Pb
12/6/84
F.B.

	0.000
2814	0.014
	0.000
2815	0.011
	0.000
2816	0.012
	0.000
2317	0.010
	0.000
2318	0.064
	0.000
2319	0.119
	0.000
2320	0.179
	0.000
2321	0.010
	0.000
2322	0.062
	0.000
2323	0.117
	0.000
2324	0.173
	0.000

WATER LABORATORY										Techn. <u>McCarthy</u>
TOTAL LEAD ANALYSIS										Date <u>12-12-84</u>
Use this method & Worksheet for NPDES analyses only										Worksheet for CD&P Method CW 72-1-94-8
Date	Spot	ID	< >	Reported Total Lead ug/liter	Lead Found ug/l**	Absorb.	Corr. Absorb.	"Known Addition"	Added Spike" %* Recovery	Remarks
12/10	Blank	-	-	-	-	0.11	-	-	-	
12/3	4.05	028	<	0.01	1.05	0.10 0.64 1.19 1.79	-0.01 0.53 1.08 1.67	0 25 50 75	X	
12/3	4.7	028	<	0.01	0.98	0.10 0.62 1.17 1.73	-0.01 0.51 1.06 1.62	0 25 50 75	X	
	Duplicate							0 25 50 75	X	
	"Spike" 25 ug/l							0 25 50 75		
		028						0 25 50 75	X	
		028						0 25 50 75	X	

* Required Quality Control Analyses (see Section II-6 of Method)

% Recovery = $\frac{\text{Pb** in "Spiked" Sample} - \text{Avg. Pb** in Unspiked Sample}}{25.0} \times 100$

WATER LABORATORY
TOTAL LEAD ANALYSIS

Techn. Larigan
Date 12-13-84

Use this method & Worksheet for
NPDES analyses only CD&P Method CW 72-1-94-8

Date	Spot	ID	< >	Reported Total Lead µg/liter	Lead Found µg/l**	Absorb.	Corr. Absorb.	"Known" Addition	"Added Spike" %* Recovery	Remarks
12/13	Blank	-	-	-	-	0.00	-	-	-	
	101	028		8	8.03	0.25 0.90 1.58 2.34	- - - -	0 25 50 75	X	
	001	028		89	88.9	2.44 3.18 3.89 4.51	- - - -	0 25 50 75	X	
	001 Duplicate*	X 98		X	98.0	2.51 3.25 3.91 4.45	- - - -	0 25 50 75	X	
	001 "Spike"* 25 µg/l				107.4	3.21 3.84 4.62 5.35	- - - -	0 25 50 75	X	72%
	661	028		326	326	1.228 1.326 1.386 1.515	- - - -	0 25 50 75	X	
		028				- - - -	- - - -	0 25 50 75	X	

* Required Quality Control Analyses (see Section II-G of Method)

% Recovery = $\frac{\text{Pb** in "Spiked" Sample} - \text{Avg. Pb** in Unspiked Sample}}{25.0} \times 100$

72%

0.000
0.125
0.000
0.000
0.000
0.150
0.000
0.200
0.000

0.244
0.000
0.318
0.000
0.000
0.000
0.401
0.000

0.256
0.000
0.000
0.000
0.317
0.000
0.000
0.000
0.404
0.000
0.472
0.000

0.321
0.325
0.325
0.325
0.325
0.325
0.325

0.321
0.325
0.325
0.325
0.325
0.325
0.325

1.228
0.325
1.325
0.325
1.325
0.325
0.325
1.325
0.325
0.325
0.325

0.325
0.325
0.325
0.325
0.325
0.325
0.325
0.325
0.325

7121
TOTAL
7121

1984