BOOK55R

Notes:
10154 on bottom edge

Blank pages: inside page opposite page 1, 1, 2, 4, 6, 8, 10, 12, 20, 24, 74-152, inside page opposite page 152

-page 15/16 has been torn out
-page 72 has 1 small, 1 (8.5x11), and 1 ½ sheet (card & carbon to it) plus ½ of that sheet stapled to it
-page 73 has 2 (8.5x11) sheets (stapled) and 2 1/4 sheets (taped)
-page 73 also has green index tab with "9213 samples" on it

Scanned by:
Sheila Finch
RSICC /Oak Ridge National Lab.
August 16, 1999

SECRET

14-2-2

COMPUTATION BOOK

NAME	Number
Analytical Weighings	29

Course .....

Used from 5/21 19 48, to ..... 19 .....

HARVARD COOPERATIVE SOCIETY
Cambridge, Massachusetts

RESTRICTED DATA
This document contains restricted data as defined in the Atomic Energy Act of 1946

SECRET

10154

Inv. 60

SECRET

AEC

Inv 67

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5-25-60

CLASSIFICATION CANCELLED
DATE 5/27/60
For the Atomic Energy Commission
Jack H. Kahn for the
Chief, Declassification Branch

"This document consists of 152 pages"
No. 1 of 1 copies, Series A"

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This document contains restricted data as defined in the Atomic Energy Act of 1946.

SECRET

5/21/48

Calibration of Extractor

Crucible #2 (1st 3½ hrs) 40.1264 − 34.3464 = 5.7800

40.1217

Cru. #9 2nd 3½ hrs. 36.6989 − 34.2841 = 2.4148

38.0796 − 36.6986 = 1.3810

1.3810 + 2.4148 + 5.7800 = 9.5758 from 10 gms orig

Sample to lab for Shorter

P-2 (bottle #65) 12.6831 − tare 11.7892 = .8939

P-3 (bottle #97)

(base of bottle only) → tare 8.9523 − 8.3969 = 0.5554

P-3 (bottle #63)

(base of bottle only) → tare 7.0439 − 6.5281 = 0.5158

6/2/48

Product P-3-A (P-2 Re purified) − 735.885

Product Oxide Bottle tare: 275.205 gm

(without rag) 460.480 gms net

368.02

6/3/48

P-3-A (PZ re purified)

disk #41 (complete) → 13.5251 − 12.4994 = 1.0257

\# 171 — 171.7970 GROSS − 126.9333 TARE — Sp. Gr. = 1.95 + 4/14 × .01 = 1.978

EXPT. 176 — 154.0862 − 126.9194

7/8/48

S-10
110.7289
tare 75.4894
35.2394 30 ml

S-11
113.1642
75.8990
37.2652 gm sample 28 ml

S-12 ca 32 ml
113.4234
72.1813
41.2421

S-13 ca 32 ml
114.7605
75.6279
39.1330

C-2 (used undiluted) 30 ml
103.5316
77.0819
26.9497

Expt. 184

142.1065
128.1470
13.9595

7-19-48 Exp 1867 sample

1386513
1264209 TARE (...)
12.2304

Samples —

R-20 131.540
tare 79.159
52.381

R-21 140.582
89.745
50.827

R-24 138.447
79.974
58.473

R-~~22~~23 141.165
83.763
57402

R-25 145.363
88.994
56.369

R-~~23~~22 ~~141.166~~
~~84.279~~
~~56.886~~
128.~~296~~
84.279
44.017

R-26 135.560
79.111
56.449

R-27 123.821
79.089
~~44~~.732

R-28 139.511
79.120
60.401

R-29 143.649
84.772
58.877

R-30 146.607
81.735
64.872
5

R-31 127.961
83.251
44.710

R-32 148.667
81.539
67.128

R-33 148.896
81.584
67.312

8-12-96 Refined Oxide sample #54

16.4556
tare 14.0770
2.3786 gm net

10/12/48

R-34	Gross	132.475	R-35		138.445
	Tare	84.058			84.272
	Sample	48.417 gm.			54.173 gm.
R-36	Gross	128.622	R-37		106.922
	Tare	83.961			75.947
	Sample	44.661 gm.			30.975 gm.

A.O. Mooneyham
10/12/48

R-38	Gross	129.763	R-39		132.424
	Tare	79.035			81.659
	Sample	50.728 gm.			50.765 gm.
R-40	Gross	139.204			
	Tare	89.686			
	Sample	49.518 gm.			

A.O. Mooneyham
10/12/48

1/6/49

Samples from solution at beginning of interaction Exp.

#194-A | #194

Req # 710055		Req # 710056	
	81.2267	Gross	82.5015
tare	73.5926	tare	74.9032
	7.6341		7.5983

approx 4 ml volume

Page 11 in 108 Interaction Book.

Sp. Gr. = 1.940

1/14/49 - Data reported by phone by Nunnally:

#194 A	(710055)	= 0.427	gm U/gm sol.
#194	(710056)	= 0.419	
	ave	0.423	
		0.395	gm X/gm sol

If impurities are negligible + assay = 93.4 then is U/X = 29.83. ≡ 0.42 gm X/gm sol -

1/16/49 Sp. Gr. = 1.926

Sample taken after Ex. 200 will be called Sample 200A & 200

Samp. # 200A	Gross	83.5645	aprox. 4 ml.	Request # 710057
	Tare	75.8167		
	Net	7.7478 gm		
	Gross	91.8680		Request # 710058
Samp. #200	Tare	83.9711	~4 ml.	
	Net	7.8969 gm.		

A.O.M.

		Calculated as natural U.	Calculated according to assay-
Results - 200A	710057 -	0.427 gm U/gm sol	0.426
200	710058 -	0.418 gm U/gm sol	0.417
		0.423	0.422 ~~0.424~~
		~~0.395~~ gm X/gm sol.	0.394 gm X/gm sol -
		0.	

Continued

1/22/48 Samples for H/X
Sp. gr. 1.566

Taken after mixing expt. 204

#204 (#1)

84.4462
[redacted]
Gross ~~[illegible]~~ – spilled some
Tare 74.8968
[redacted]
9.5494

Request # 710059
analysis 0.313 gm U/gm. sol.

By phone 1/28/49 DC

#204A (#2)

82.6732
73.2526
9.4206

Request 710060
analysis 0.314 gm U/gm sol

2/19/49

Sample from #9

Sp.gr. 1.192

Temp. 16°C ± 1°

Samp. 222A
Gross wt. 102.6118
Tare wt. 90.8140
Net. wt. 11.7978

Samp. 222B
gross wt. ~~101.6663~~ 101.6631
Tare wt. 89.6427
Net. wt. 12.0204

2/26/49 Samples for H/x

234A
Gr. [redacted] 91.6596
Tare 81.0090
net 10.6506 gm

234B
Gr. 88.5893
[redacted] Tare 79.0660
net 9.5233

Sp. Gr. [redacted] 1.101

3/3/49

Samples for Assay:

	1 {Cyls. E & F	2 {Cyls. D & G	3 {Cyls. H & C	4 {Cylinders A & B
	110.6722	111.5859	101.8399	76.4752
Tares	88.8035	89.6524	79.9980	54.6030
	21.8687	21.9335	21.8419	21.8722

(5) - X

103.1798
Tare 88.7816
14.3982

Plastic Beaker

2710.675
Tare 880.395
1830.280

3/17/49

Samples for Assay + Spect

Sample EF-1

Gr	100.2714
tare	77.9831
	22.2883

Sample EF-2

	100.8177
	78.8182
	21.9995

3/22/49

DG-1 gross 95.6515 Sp. gr. 1.102 Temp 20°C ± 1°
Tare 73.6503
net 21.9012 Req # 710075

HC-1 108.8579
75.9285
32.9294 gm net. 1.100 at 23°C ± 1°

3/28/49

Sample A-2 ← cyl bottom slipped in ← refers to 2nd filling (i.e. after returned empty by Y-12 once)

Sp gr 1.102 @ 22°C

Gross 107.1010
Tare 74.7934
Net 32.3076

Sample H-2

Gross 109.3867
Tare 75.6229
Net 33.7638

Sp Gr 1.112 @ 22°C

4/7/49

for Cronin

wgt Burette 93.0052
tare 76.7984
16.2068

wgt Burette 104.2368
tare 75.1268
29.1100 Req # 710081 Cyl #7

4/12/49

Cyl C-4 7.2901.
102.8026
74.4742
28.3284
Req # 710083

G-4
wgt Burette 102.4088
72.3692
30.0396
Req # 710084

Cronin 4/19/49

R-66 137.0960
84.2651
52.8309
Req # 710085

R-67 131.3891
79.2596
52.1295
Req # 710086

R-68 127.3013
79.3624
47.9389
Req # 710087

R-69 135.7971
81.4971
54.3000
Req # 710088

R-70 133.3108
83.7965
49.5143
Req # 710089

R-71 128.5229
81.7317
46.7912
Req # 710090

R-72 136.6258
91.1450
45.4808
Req # 710091

R-73 137.5763
91.3237
46.2526
Req # 710092

4-25-49
R-74 133.80
91.60
42.20
Req 710095

4/25/49

R75) 138.20 − 90.24 = 47.96

Reg 710096

R76) 131.09 − 90.39 = 40.70

Reg 710097

R77) 126.11 − 91.12 = 34.99

Reg 710098

R78) 123.04 − 79.21 = 43.83

Reg 710099

R79) 123.28 − 83.72 = 39.56

Reg 710100

R80) 123.60 − 79.34 = 44.24

Reg 710101

4/22/49

Resample

C-4 133.41 − 79.29 = 54.12

G-4 133.48 − 80.04 = 53.44

5/17/49

R81 98.576 − 75.541 gm = 23.035 net

Density 1.027

R82 101.888 − 75.464 = 26.424

Density 1.034

Samples from storage Cyl. containing Orange Nitrate as shipped from Y-12 7-21-49

sample ~~1-A~~ ~~83.7133~~ 83.1511 - new gross after spill
1-B 79.1138 tare gms
~~4.5995~~
4.0373 gm net

Req # 710 109

Spec. Gr. ~~1.517~~ 1.514

Sample ~~2-A~~ 84.6085
2-B 78.9312
5.6773

Req # 710 110

Sample ~~1-B~~ 84.5890
1-D 79.1750
5.4140

Req # 710 111

Sample ~~2-B~~ 84.9358
2-D 78.8307
6.1051

Req # 710 112

Sp. Gr. 1.517

Sample ~~1-C~~ 83.5998
1-A 77.7851
5.8147

Req # 710 107

Sample ~~2-C~~
2-A 84.4195
78.3859
6.0336

Req # 710 108

~~1.517~~

Sp. Gr. 1.517

sample 1-E

102.1515
77.8810
24.2705 gm net

Req # 710113

sample 2-E

100.2824
79.7256
20.5568 net gm

Req # 710114

7/26/49

R 83 gel jig sample Reg# 710115

5.230 4927 Gross 105.6847
1.288 1288 tare 75.6062
3.942 3639 gm 30.0785 gm

8/8/49

R-84 4670 4330 104.6972 Reg #710116
1295 1295 74.8068
3.325 3035 29.8904 gm

R-85 4850 4600 Gross 105.8382 gm Reg# 710117
1225 1225 76.6182
3625 3375 gm net 29.2200

R-86 4739 gm 4480 gm 105.6202 gm Reg# 710118
1302 1302 76.6713
3437 3178 28.9489

Composite of R-83-84-85-86 for X
Reg # 830007

1954.43
tare 925.02
1029.41 gms

Sample of Uranyl Nitrate sol. in bottle to be added to cyl. E 8/8/49

R-90 107.465
76.272
31.193 gm net

3175 gm
1310 jar
1865 gm net after sampling

8/8/49 JKT

			Sample
R87	4290 1300 2990 gm net	Bottle # U-2074	432.45 265.96 gm tare 166.49
R88	4392 1250 3142 gm net	Bottle # U-146	679.81 gm 290.42 389.39
R89	4300 1253 3047 gm net	Bottle U-122	713.15 gm 289.20 424.95
		Bottle U-2151	266.32

(R-90 on previous page)

Samples for Aug 1 Inventory 1949 — 8/3/49

	Sample E-3 Req# 830001	Sample C-1 Req# 830002
Gross	91.8616	83.6895
Tare	74.5092	74.4533
Net	17.3524	9.2362

	Sample D-3 Req# 830003	Sample B-3 Req# 830004
Gross	84.5906	84.2202
Tare	76.1726	75.1769
Net	8.4180	9.0433

	Sample A-3 Req# 830005	Sample A-4 Req# 830006
Gross	85.1652	80.3156
Tare	73.7335	74.7284
Net	11.4317	5.5872

Weighed by JMW

Sample # 239-A
Gross 89.68
Tare 74.50
15.18 gms

239-B
81.84
tare 74.45
net 7.39 gm

Sp Gr. = 1.547

9/6/49

Dirt Sample— taken after spill + tamper

Gross 929
tare 377
Net 552 gm bone-dry basis.
dried in vac night at 105°C

Inventory Samples taken Sept. 1 DH

C-2 Gross 86.52
Reg# 830014 tare 74.45
Net 12.07 grms

C-3 93.74
Reg# 830015 tare 76.27
17.47

sp. Gr. 1.548

E-4 101.14
Reg# 830016 74.73
26.41

E-5 106.23
Reg# 830017 tare 75.18
31.05

Sp Gr. 1.060

Inventory Samples taken Sept 7 DH

~~A~~ A-5
Reg# 830018
Gross 87.993
tare 76.171
Net 11.822 g

Sp. G. 1.549

A-~~X~~ 6
Gross 85.237
tare 75.860
Net 9.377 g

K-1
Gross 84.~~[illegible]~~ 534
76.462
Net 8.072 g

K-2
Gross 81.535
Tare 74.542
Net 6.993

Sp Gr. 1.550

K-3
Gross 89.165
75.118
Net 14.047

} for Spec and %N (Same as K-1 K-2 for U + X

9/8/49

Sample Req # 830023
R-91
Gross 588.0
tare 266.4
Net 321.6 gms

R-91 Shipment #12
5190
tare 1322 gms
net 3868 gms.

Sample Req # 830024
R-92
Gross 624
tare 294
Net 330.0 gms

R-92 Shipment #12
4800
tr 1275
3525 gms

Sample Req # 830025
R-93
Gross 746
tare 288.5
Net 457.5 gms

R-94 Shipment #10
Gross 4544
tare 1310
Net 3234 gms

Sample Req # 830026
R-94
Gross 681.0
tare 268.0
Net 413.0

R-93 Shipment #10
Gross 4827
tare 1287
Net 3540 gms

Sample Req # 830027
R-95
Gross 625.0
tare 267.6
Net 357.4 gms

Shipment #10
R-95
Gross 4508
tare 1575
Net 2933 gms

9/19/49

Sample Reg #830028
R-96
Gross 756
Tare 290
Net 466 gms

R96 Shipment #13
Gross 4238
Tare 1291
Net 2047 gms

34

9/28/49 Samples for Inventory

Sample L-1
Reg. #830029.

Gross	86.678	gm
Tare	74.453	
Net	12.225	

Sp. g. 1.467

Sp. g. 1.555
If wks? DC

10/3/49 Samples for Inventory

K-4
Reg # 830030

Gross	86.176	gm
Tare	76.171	
Net	10.005	

A-7
Reg #830031

Gross	89.375	gm
Tare	75.178	
Net	14.197	

C-4
Reg #830032

Gross	85.567	gm
Tare	74.730	
Net	10.837	

U = .2490
x = 305

E-6
Reg #830033

Gross	101.505	gm
Tare	76.268	
Net	25.237	

10/3/49 Pel Sample Req# 830034

Bottle U-1771 (weighed)

Same R-97

Gross 516
Tare 277
Net 239 gms

R97 Shipment #13

Gross 4533
Tare 1180
Net 3353 gms

Normal - (N-4) Req. # 830035

Gross 267.6 gm
Tare 151.5
Net 116.1

10/11/49 R-98 Shipment #13

4568 gm
1243
3325

Sample
Req 830037
104.151
72.421
31.730 gm net

R 99 Shipment #13

5321 gm
1578
3743 gm net

Sample
Req# 830036
106.145
74.568
31.577

Expt. 292 — Reg 830036

Gross	94.785	sp. gr.
Tare	75.925	1.162
	18.860 gm net	

U = .0970 g/gm
X = 93.0]

R-100 Shipment #13

4964
1269
3695 gm net

[illegible] Reg 830039

107.906
76.361
31.545 gm net

R-101

R-101 #13 Shipment
4568
1265
3303 gm net

[illegible] 1774 Reg 830040

507.8
273.8
234.0 gm net

Cl. ... L-2 #30
54694 9.0725

N-5 Reg # 830041 (5gal Can).

sample 1683
tare 583.0
1100 gm(?).

Shipment 40.5 #14 18,371 gms
tare 5.0 lbs 2268
35.5 lbs. 16,103 gms

R-102 Reg # 83052
Sample
1767
tare 790 gms
977 gms

Shipment #13
42.0
5.0
37.0 lbs). } converted to gms.

10/31/49 Inventory (Fox Grain Machine)

Weights in grams

Sample # K-5
Req # 830043

Gross 84.62 gm
Tare 75.53
net 9.09
Sp Gr 1.547
no D measured this day

Sample # B-4
Req # 830044

Gross 81.14
Tare 73.08
net 8.06
Sp Gr 1.163

Sample # A-8
Req # 830045

Gross 82.77
Tare 75.53
net 7.24
Sp Gr 1.163

Sample # C-5
Req # 830046
Gross 83.38
Tare 75.17
net 8.21

Sp Gr

Sample # C-6 (bottle)
Req # 830047

Gross 67.46
Tare 52.05
net 15.41
Sp Gr

Sample # C-7 (bottle)
Req # 830048

Gross 77.07
Tare 51.89
net 25.18
Sp Gr

Sample # D-4
Req # 830049

Gross 85.54
Tare 76.26
net 9.28

Sp Gr

Sample # E-7
Req # 830050

Gross 83.42
Tare 76.17
net 7.25

Sp Gr

Sample # F-1
Reg # 830051

Gross 81.08
Tare 74.44
Net 6.64

s/ [illegible]

Sample # G-1
Reg # 830052

Gross 84.47
Tare 74.74
Net 9.73

s/ [illegible]

Sample # H-1
Reg # 830053

Gross 84.68
Tare 75.93
Net 8.75

s/ [illegible]

Sample # J-1
Reg # 830054

Gross 85.95
Tare 76.36
Net 9.59

s/ [illegible]

~~Sample # L-2~~
~~Reg #~~
~~Gross~~
~~Tare 74.57~~
~~Net~~
~~s/ [illegible]~~

~~Not taken~~

as gross weight of [illegible] is [illegible] previous tare to 0.2 gm

11/3/49

JKE
DFC

Sample #310 Rq#830055

Gross 97.440
Tare 74.564
Net 22.876 gms

Sample N-6 Rq#830056

103.225
72.422
30.803 gms

11-15-49

Sample R103 Req#830057

444.5
tare 2725
Net 1720 gms

Shipment R103 — Mens 17 11/21/49

4750
tare 1212
Net 3538 gms

R-104 Req 830059

460.0
tare 273.5
186.5 gms

R-104 Shipment ✓

5148
tare 1550
3598 gms

R-105 Sample Req#830058

421
tare 274
net 147 gms

R-105 Shipment ✓

4269
tare 1265
Net 3004 gms

R-106 Sample Req 830060

397.5
tare 273.5
Net 124.0

R-106

4730
tare 1568
Net 3162 gms ✓

R-107 bottle # U-3155

Req # 830061
Gross 207.0
Tare 146.5 gms
160.5 gms

R107 Shipment

Gross 5025
Tare 1298 gms
3727

R-108 bottle # U-3117

Req # 830062
Gross 227
Tare 146.0
81.0 gms

R-108 Shipment

Gross 4637
Tare 1267
3370 gms

R-109 bottle # U-1369

Req 830063
240.5
tare 147.0
Wet 93.5 gms

R-109 Shipment

Gross, 4092
Tare 1277
2815 gms

11-30-49 Cyl F ~~mass~~

Sample F-2 Spec
Reg # 830064
gross 104.2185
tare 76.3333
net 27.8852 gms

Sample F-3
Reg # 830065
gross 105.3551
tare 75.1812
net 30.1739 gms

11/9/49 Henry Fox

Tares on new storage cylinders M & N
Correction factor for paper on balance -52.7 gm
cylinders weighed with adjusted fittings on
wt. of fittings 99.0 gm. (Does not include tag

Cyl M

16.346.4
-52.7 Paper
Tare 16,293.7 gm.

Cyl N

16.369.4
-52.7
Tare 16,316.7

Sample M-1
Reg # 830066

Gross 97.6929
tare 76.2566
Net 21.4363 gms

Shipment M-1 M.Tr. ~~Memo~~ #18
~~Gross~~ - 23,504.0 (5)
tare 16,293.7 gm
Net ~~7,213.3~~
7,211.3

Sample N-1 Reg # 830067
Gross 104.6149
tare 75.5234
29.0915 gms

Shipment N-1 M.Tr. ~~Memo~~ # 18
Gross 23,431.0 gm
16,316.7
Net 7,114.3 gms

Sample N-2 Reg # 830068
(for nitrate)

Gross 103.7383
tare 75.1974
Net 28.5409 gms

12/16/49

Cronin
Moffett

339-A

Sample ~~336-A~~

Gross 104.7722
tare 75.9304
28.8418 gms

339-B

Sample ~~336-B~~

Gross 105.2987
tare 76.1324
29.1663 gms

Sp. Gr. 20°C gms = 1.1114

12/22/49 Resample of Normal $UO_2(NO_3)_2$ taken from N-Tanque system

Req# 830071
U-104
N-8
437.0
273.0 gm
164.0 gms

Req# 830072
U-1057
N-7
454.0
290.0 gm
NET 164.0 gms

12/16/49 Resample of normal $UO_2(NO_3)_2$ taken from N-Tanque system. Original concentration. 12/12/49 sample expelled.

Cronin
Moffett

Req # 830075

4.550
Gross 589.
Tare 287.
Net 302. g

No Shipment

12/27/49 Inventory Sample (from Cyl. B)

Sample B-5 Req# 830073 B-6 Req# 830074

tare ~~98.1908~~ ~~74.5493~~ ~~23.6315~~ gms. tare ~~101.5135~~ ~~73.0095~~ 26.9542 gms

98.1908 Sp. Gr. 1.114 101.5135
73.0095 74.5593
25.1813 gms 26.9542 gms

—o—

12/30/49

Sample R-112 Shipment R-112
Bottle # U-2220 5 gal can.

Gross	703.9 g.	44.0 lbs
Tare	269.4 g	5.0 lbs
Net	433.6 g.	39.0 lbs

—o—

Sample of NORMAL $UO_2(NO_3)_2$ Tare after dilution.
Bottle # U-3009

Gross	222.3 g	No shipment
Tare	140.1 g	
Net	82.2 g	

—o—

Sample R 111 Shipment R 111
Bottle # U3146 Gallon Jar

Gross	241.8 g	5440 g
Tare	146.3 g	1575 g
Net	95.5 g	3865 g

—o— 20

Sample R 110 Req# 830076 Shipment R 110
Bottle # U3121 Gallon Jar.

Gross	230.5 g	5600.0 g
Tare	146.0 g	1585.0 g
Net	084.5 g.	4015.0 g

—o—

Sample R-113 Req 830079

Bottle U-1104

Gross	744.0	g
Tare	290.4	g
Net	453.6	g

Shipment R-113

5 gal bucket

	35.0	lbs
	5.0	lbs
	30.0	lbs

—o—

Sample NR-8 Req 830080

Bottle # U3158

Gross	273.8	g
Tare	146.2	g
Net	127.6	g

Shipment NR-8

5 gal can

	41.0	lbs
	5.0	lbs
	36.0	lbs

—o—

For Shipment R-12

Req. 830082

1/10/50 Sample of Cyl K-6 Wt 1.54

Gross	96.4269	g
Tare	75.3155	
Net	21.1114	g

Req 830083

Sample of Cyl K-2 Wt 1.47

	94.0081	g
	74.7425	
	19.2656	g

Req 830084

Sample B-7

Gross	104.4300	g
Tare	74.4509	
Net	29.9791	g

Req 830085

Sample A-9

	77.4010	g
	51.8317	
	25.5693	g

 1/12/50

Sample taken from Reactor into jar U-483 and divided among following containers:
(Sp. Gr. = 1.084)

Reg# 830086
Sample# 369 wt/bottle
100.585
tare 73.665
26.92 gms

Reg# 830087
Sample# 370 wt. bottle
[illegible]
74.125
[illegible] gms

Reg# 830088
Sample# 371 wt. bottle
[illegible]
[illegible]
25.0[illegible] gms

Reg# 830089
Sample# 372 wt. bottle
106.039
76.220
29.819 gms.

Reg# 830090
Sample# 373 wt. bottle
99.67
74.14
25.53 gms

Reg# 830091
Sample# 374 H.S. bottle
84.116
52.830
31.286 gms

1/18/49

For Rapid colorimetric followed by precision analysis.

Sample 380 Req # 830092

160.4816
tare 75.307
25.1746

JHGFEDC
MPQ
(A-10)

(See 39)

Samples for Shipping 1-23-50

Reg # 830093
Sample J-2
Gross 107.651 gm
Tare 78.364
net 29.287

d = 1.057

Reg # 830094
Sample H-2
Gross 111.957
Tare 78.460
net 33.497

Reg # 830095
Sample G-2
Gross 109.330
Tare 75.105
net 34.225

Reg # 830096
Sample A-10
Gross 77.671
Tare 67.043 g
net 10.628

Reg # 830097
Sample F-4
Gross 105.289
Tare 74.143
net 31.146

Reg # 830098
Sample E-8
Gross 106.21
Tare 76.25
net 29.96

Reg # 830099
Sample D-5
Gross 108.089
Tare 76.318
net 31.771

Reg # 830101
Sample C-8
Gross 108.513
Tare 78.215
net 30.298

Reg # 8300100
Sample M-2
Gross 107.147
Tare 78.382
net 28.765

Reg # 830103
Sample P-1
Gross 107.52
Tare 74.42
net 33.10

Reg # 830102
Sample Q-1
Gross 111.484
Tare 77.863
net 33.621

Cylinder Shipment 1/23-24/50

Shipping Memo #

Density table on Cylinder J = 1.057

These Tare weights include 96 gm fittings

J	Gross	26166.6		
	Tare	18565.5		
	net	7601.1 gm active Solution		
H	Gross	24165.0		
	Tare	16720.8		
	net	7444.2		
G	Gross	24053.5		
	Tare	16320.1		
	net	7733.4		
A	Gross	24,851.9		
	Tare	17870.0		
	net	6981.9		
F	Gross	25647.7		
	Tare	18020.0		
	net	7627.7		
E	Gross	25326.8		
	Tare	17712.4		
	net	7614.4		
D	Gross	24,325.0		
	Tare	16818.2		
	net	7506.8		
C	Gross	25930.7		
	Tare	18231.0		
	net	7699.7		
M	Gross	22689.2		
	Tare	16274.8		
	net	6414.4		
P	Gross	23195.3		
	Tare	16308.0		
	net	6887.3		
Q	Gross	24266.8		
	Tare	16837.4		
	net	7429.4		

Fittings for all cyl except A are 96 ± < ½ grams

Cyl A was stored with fittings by Jm

50
1/23/50

all on Shipping Memo #24

Req # 830104

Sample U. 1739 (NR-14)

535.1
467.7
67.4 gm net

Shipment NR-14
84.5 lbs
26.5
NET 58.0 lbs

Req # 830105

Sample U-2267 (N-8)

353.9
269.5
84.4

N-8
86.5
27.5
59.0 lbs net

Req # 830106

U-1101
NR-10
330.0
270.9
59.1

NR-10
45.0 lbs
9.5
35.5 lbs net

Req # 830107

U-1759 (NR-9)
340.7
277.6
62.1

NR-9
41.5
9.5
32.0 lbs net.

Req # 830108

U-1231 (NR-11)
581.1
470.1
111.0 gms

NR-11
29.5 lbs
9.5 lbs
20.0 lbs net.

Req # 830109

U-2046 (NR-16)
118
37
70.2

NR-16
108.5 lbs
32.5
76.0 lbs.

allori shipping Memo #24

Reg #830110
Sample U-1519 (NR-15)
96.5
35.0
60.7

NR-15
86.5 lbs
29.5 lbs
59.0 net.

Reg #830111
Sample U-2073
96.7
37.4
59.3

NR-13
84.0
26.0
58.0 lbs net

Reg 830112
Sample U-1506
114.8
35.4
79.4

NR-12
86.0 lbs
29.0 lbs
57.0 net

Reg. 830113
Sample U-173
130.3
35.2
95.1

N-7
69.0
27.0
42.0 lbs net

Reg. 830114
Sample F-52
107.9
35.7
72.7

NR-17
108.0
32.5
75.5 lbs net

Reg 830115
Sample F-1042
111.7
35.3
76.4

NR-18
108.5
32.5
76.0 lbs net.

52

Samples on 2 recovery jigs 1-24-50

R-114 U-1877 Req #830116 all on Shipping Memo # 23

Gross 4652 gm Gross 251.9
Tare 1287 gm Tare 37.3
net 3365 gm net 214.6 gm net (sample)

R-115 U-1880 Req #830117
Gross 4782 Gross 218.0
Tare 1273 Tare 38.0
net 3509 gm net 180.0 gm sample

R-116 U-1906 Req 830118
5 gal bucket taped
Gross 305.8
Tare 36.5
net 269.3 gm sample

R-117 U-1988 Req #830119
5 gal bucket taped
Gross 316.0
Tare 36.9
net 279.1 gm sample

R-118 U-1992 Req #830120
~30 gallon drum
Gross 308.9
Tare 36.9
net 272.0 gm sample

cyl. B (appr.)	C (1.50 appr.)	cyl. F (appr. 1.51)	cyl. H (appr. 1.50)
93.28	92.19	86.58	96.09
76.24	73.68	74.73	74.47
17.04	18.51	11.85	21.62

J - ~~1.48~~ 1.51 appr.

90.15
75.31
14.84 gm net

H/X Sample Before Dilution 2/21/50.

	Reg# 830127	Reg# 830126
	[redacted]	[redacted]
Gross	93.1256 g	92.1042 g.
Tare	74.4293	78.2131
Net	18.6963 g.	13.8911 g.

Sample Taken for inventory March 1, 1950

~~Reg #~~
~~Gross 78.5446~~
~~Tare~~
~~Net~~

Reg # 830128
Gross 116.3810
Tare 78.5446
Net 37.8364

Reg # (spare)
Gross 106.4039
Tare 75.3060
Net. 31.0979

Sp. G. 1.230

Reg 830141

R-119

258.5
Tare 39.6 — U-2086
218.9

5020
1260 gm
3760 gm net

Reg. 830142

R-120

252.6
U-2020 39.5 gm. Tare
213.1

4985
1295
3690

Reg 830143

R-121

236.0
U-2028 39.8 gm Tare
196.2

5100
1250
3850 gm net

3-20-50

830144

R-122

U-2084 281.0 − 39.0 Sample
242.0 gm.

4830
1245
3585 gm net

Cylinders prepared for Shipment to Y-12 3/8/50

	Samp from cyl m	Samp from J	Samp from H
Gross	104.9282	113.5097	106.4832
Tare	78.3881	76.3183	73.6693
net	26.5401	37.1914	32.8139

	Samp from D	Samp from Q
gross	101.2202	96.0517
Tare	74.1446	74.7344
net	27.0756	21.3173

cyl. weighed with fitting (at 96.0 gms) samp. before weighing

Cyl.	Gross wt. (Kg)
m	22.3333
J	27.4872
H	25.6247
D	24.0715
Q	25.8294

Req # 830145

3-20-50 R-123 U 1997 290.5 − 37.5 = 253.0 gm Sample

5367 − 1575 = 3792 gm Net

Cyl of Hi (NO_3) to X-12 Mar. 16 1950

Cyl F

Sample Reg # 830134
Gross 107.897
Tare 78.453
Net 29.444
Sp. Gr. 1.1650

Gross Wgt. 24,641 gms
tare 18,090 gms
Net 6,551 gm
17,992.4
fittings = 98.0 gms
18090.4

Cyl. B

Sample Reg # 830135

Gross 101.372
tare 74.418
Net 26.954

Gross Wgt 24,531
18,406 tare
Net 6,125 gms
18306.9
fittings 99.5 gms
18,406.4

Cyl. G

Sample Reg # 830136
Gross 107.975
tare 77.862
Net 30.113

Gross Wgt 22,949 gms
16,326 tare
Net. 6,623 gm
16224
fittings = 102 gms
16,326

Cyl E

Sample Reg # 830137
Gross 108.475
16.250
32.225

Gross Wgt 25,483
17,711
7,772 gm net
17616
fittings = 95 gms
17,711

Cyl C

Sample Req #830138

Gross 104.835
76.229
28.606

Gross = 24,128.5
18,236.0
5,892.6 gm net

fittings = 101 gms
18136
18,236

Cyl A

Sample Req # 330139

Gross 108.944
75110
Net 33.834

Gross wgt. 23,460 gms
17,862
5,598 gms net

fittings 101.5
17760.8
17,862.3 gms net

Cyl P.

Req 830140
271
42
229 gms net

Gross 19,252.5 gms
16,313.0 gms
2,939.5 gm net

fittings 16,212
-101 gms
16,313

58 3-20-50

R-124	830-146		jugs
R-124	U-2007	264.5 39.4 sample 245.1 gm net	4725 1310 3415 gm net
R-125	830147 U-2031	264.5 37.6 sample 226.9 gm net	4893 1266 3627 gm net
R-126	830148 U-2055	254.5 37.7 sample 216.8 gm net	4795 1224 3571 gm net

Incoming Shipments

Sp. Gr. Sp. Gr. 1.664

1.664 Cyl P

Gross 27, 760.5 gms
tare 16, 212.0
11,548.5

fittings = 101 gms
11,447.5 gms Net

Sample Req# 830149
gross 123.815
tare 76.257
Net 47.558 gms

1.659 cyl L

Gross 29, 348.5
tare 17, 952.0
11396.5
fittings = 100 gms
11,296.5 gms Net

Sample Req # 830150
Gross 123.718
76.227
Net 47.491 gms

1.660 sp Gr M

Gross 27, 025.0
16, 178.8
10846.2
FITTINGS 100. 0
10746.2

Sample Req # 830151
Gross 123.038
75.305
Net 47.733

Sp. Gr. 1.706 F

29, 137.5
tare 17 924.0
11,213.5
fittings 92.5 gms
11,115.0 gms Net

Sample Req # 830152
gross 121.094
tare 77.872
net 43.222

Sp Gr. 1.662 Q

27,030.0 gms
tare 16, 741.4
10 288.6
fittings 100 gms
10188.6 gms Net

Sample Req # 830153
gross 118.246
78.378
net 39.868

Incoming Shipment

ep Br. 1.660	cyl H		Sample Req # 830154
	Gross	28,497.5 gms	gross 119.015
	tare	16624.8	tare 78.212
	Net	11872.7	net 40.803
	fittings	101 gms	
		11771.7 gms Net	
ep Br. 1.662	cyl D	27632.5 gms	Req # 830155
		16,722.2	gross 118.205
		10910.3	73.667
	fittings	100.5 gms	44.538
		10809.8 gms Net	
ep Br. 1.661	cyl J	gross 30126 gms	Req # 830156
		18,469.5	gross 120.956
		11656.5	tare 78.545
			Net 42.411
	fittings	101.0 gms	
		11,555.5 gms Net	
ep Br. 1.649	cyl K	28,087.0 gms	Req # 830157
		16,899.6	gross 120.769
		11,187.4	74.143
			46.626
Av. = 1.664	fittings	97.5 gms	
	total Net	11,089.9	

3/29/50

Taken after Ex 418 + before Ex 419

	Gross 129.820	Gross 131.752
	78.453	75.111
Sp. Gr. 1.664	51.367 gms.	56.641 gms.
	(418A)	(418B)

Samples taken by adding about a liter from each cylinder to reactor mixing + these sampling.

62

4/5/60

Shipment of Hi Pho. to Y-12

Cyl P

Gross 27,971.7
tare 16,212.0
Net 11,759.7
fittings 100.2
Net 11,659.5 gms

Sample Req # 830160
Gross 121.07
tare 76.33
44.74 gms

Cyl H

Gross 27,726.0
tare 16624.8
11101.2
fittings 98.0
Net 11003.2 gms

Sample Req # 830161
Gross 119.36
tare 74.48
44.88 gms

Cyl M

gross 27,901.4
tare 16,178.8
11,722.6
fittings 101.3
Net 11,621.3

Sample Req # 830162
gross 119.39
tare 74.44
44.95

Cyl L

gross 29,938.5
tare 17,952.0
11,986.5
fittings 101.3
Net 11,885.2 gms

Sample Req # 830163
gross 127.52
tare 74.96
52.56

Sp. Gr. = 1.665 taken on cyl E (F[illegible])

cyl Q

Gross	27679.5
tare	16741.4
	10938.1
fittings	98.2
Net	10,839.9 gms

Sample Req # 830164

gross	133.36
tare	71.76
Net	61.60 ✓

weighing bracket = 0.8542 gms

cyl D

Gross	27,556.0
tare	16,722.2
	10833.8
fittings	102.0
Net	10,731.8

Sample Req # 830165

gross	129.33
tare	69.46
	59.87 ✓

wgt bracket = 0.8542 gms

cyl K

Gross	23,939.2
Tare	16,899.6
	7,039.6
fittings	102.0
Net	6,937.6 gms

Sample Req # 830166

gross	129.39
	70.50 ✓
	58.89 gms

wgt bracket = 0.8542

cyl J

gross	29,916.0
tare	18,469.5
fittings	103.3
Net	11,343.2 gm

Sample Req # 830167

gross	127.69
tare	74.05
	53.59 ✓

wgt bracket = 0.8542

F-1

cyl F

gross	29,148.5
tare	17924.0
	11225.5
fittings	101.3
Net	11,124.2

Sample Req # 830168

gross	129.55
tare	70.57
net	58.98 ✓

F-2

Sample Req # 830169

gross	129.55
tare	67.66
Net	61.89 ✓

weight bracket = 0.8542

64

4/6/50

Scribner Rhm

Recovery Samples

R-127 - 132
NR-19

Req # 830183
Sample F-62
gross 197.0 gm
Tare 36.4 gm
net 160.6

Req # 830182
Sample V-1508
gross 140.5
Tare 36.2 gm
net 104.3 gm

Req # 830181
Sample V-1529
gross 250.6
Tare 37.6 gm
net 213.0 gm

Req # 830180
Sample V-1550
gross 231.8
Tare 37.8 gm
net 194.0 gm

Req # 830179
Sample V-1838
gross 207.5
Tare 38.7 gm
net 168.8 gm

Req # 830178
Sample V-2025
gross 243.4
Tare 38.2 gm
net 205.2 gm

Req # 830177
Sample V-2045
gross 227.4
Tare 38.1 gm
net 189.3 gm

NR-19
gross 9.0
Tare 5.0 lbs
net 4.0 lbs
5 gal bucket

R-127 (High phosphate)
gross 5446
Tare 1420 gm
net 4026 gm

R-128
gross 4982
Tare 1417 gm
net 3565

R-129
gross 5214
Tare 1417
net 3797 gm

R-130
gross 5034
Tare 1265 gm
net 3769 gm

R-131
gross 4954
Tare 1275
net 3679 gm

R-132
gross 5207
Tare 1415
net 3792 gm

4/6/50 contd. R-133-134

Reg # 830176
Sample U-2052
gross 187.8
tare 37.6 gm
net 150.2 gm

R-133
gross 5416
tare 1410
net 4006 gm

Reg # 830175
Sample U-2055
gross 147.2
tare 39.6 gm
net 107.6 gm

R-134
gross 5204
tare 1212
net 3992 gm

~~Reg #~~
~~Sample~~
~~gross~~
~~tare~~
~~net~~

~~gross~~
~~tare~~
~~net~~

Call from R. Greene
say composite sample (Hyphos Solis now back to Y-12)
analyzed 0.035944 $\frac{\text{gm U}}{\text{gm Solids}}$

cf J Fox's memory of Y-12 value by makeup of 0.036 $\frac{\#}{\#}$

4-7-58

[illegible]
Low – Phosphate

Cyl B
Gross 22,427.3 gms.
Tare 18306.9
Net = 4120.4
fittings 99.6
Net 4020.8

Sp Gr = 1.555
Sample 830170
132.605
89.679
42.926 gm net

Sp Gr. 1.595

Cyl A.
Gross 21,463.0
Tare 17760.8 gm
Net 3702.2
fittings 102.0
Net 3600.2

Sample 830171
117.73
75.4945
42.23 gm net

Sp G. 1.790

Cyl G
Gross 27,776.4 gm.
Tare 16224.0
Net 11,552.4
fittings 102 gms
Net 11,450.4

Sample 830172
124.57
75.57
49.00 gms

Sp Gr. 1.814

Cyl C
Gross 29,420.2
Tare 18135.0
11285.2
Fittings 101.0
Net 11184.2

Sample Reg# 830173
Gross 124.78
tare 77.94
Net 46.84

avg Sp Gr for all cyl = 1.74

R-135

Gross 5011
tare 1575
Net 3436 gm

Sample Reg # 830.174
U-2098

Gross 245.2
tare 41.5
net 203.7

4-13-50 DFC & PL

Sample from pilot manifold for H/X
Numbered 427 in honor of the preceding Expt.
Weight burette w 26 ml

gross 116.786
tare 77.559 gms
net 39.227 gms

Req # 830185

4/14/50

Req # 830186 (A)
gross 119.80
tare 73.84
net 45.96

Req # 830187
Sample # 432 (B)
gross 120.54
tare 76.26
net 44.28

	Samples		Cylinders	Fittings
cyl A	115.57 / 76.11 / 39.40 ✓	830188 reg. / sp gr 1.52	27,372.5 / 17,862.3 / 9,510.2	17760.8 / 101.5 / 17,862.3
M	118.94 / 74.22 / 44.72 ✓	830189 reg / 1.52	26,406.0 / 16,280.8 / 10,125.2	16178.8 / 102 / 16,280.8
Φ	114.90 / 76.44 / 38.46 ✓	830190 reg. / 1.517	26,290.5 / 16,839.4 / 9,451.1	16,741.4 / 98.0 / 16,839.4
P	112.57 / 75.61 / 36.96 ✓	(830191) reg No.	23,448.5 / 16,314.5 / 7,134.0	16212.0 / 102.5 / 16314.5
C	Sample U-2131 Reg # 830192 / 235.7 / 41.7 / 194.0 gms net		26,525.5 / 18,235.0 / 8,290.5	18135.0 / 100 gm / 18,235.0
G	Sample U-2125 Reg # 830193 / 247.8 / 40.0 / 207.8 gm net		23,904.0 / 16,324.0 / 7580.0	16224.0 / 100 gm / 16324.0

70
5/4/50

Cyl of Washings 4 7-12

Cyl B
Sample Req # 830194
Gross 273.8
39.2
234.6

Gross 25,570.0
18406.5
7,163,5

Cyl L
Sample Req # 830195
294.0
37.3
256.7

25436.0
18053.3
7,382.7

Cyl Q
Sample Req 830196
289.8
36.8
253.0

22518.0
16839.4
5678.6

Cyl M Sample Req 830197
604.9
264.1
340.3

22691.5
16280.1
6411.4

Cyl P Sample Req 830198
283.6
152.5
131.1

23,308.0
16312.2
6995.8

Reg # 30199

U-1506

302.8

tare 37.6 gms

265.2

from bbl

U-1878

tare 38.0

Special from Callahan	360135
BATCH NUMBER	REQUISITION NUMBER

REPORT TO: Callahan

BUILDING NO. 9735 PHONE:

DESCRIPTION OF MATERIAL:

Lab-Waste Water

ASSAY REQUESTED AT ☐ DT ☐	AT CODE NO.	
ANALYSIS REQUESTED	REPORTED ANSWERS	
GRAM U /GRAM		
	~~405 ppm~~	
	<.01 ppm	

SIGNED: RKB.

BY: DATE

INTER-COMPANY CORRESPONDENCE

(INSERT NAME) COMPANY CARBIDE AND CARBON CHEMICALS CORP. LOCATION Post Office Box P OAK RIDGE, TENN.

TO LOCATION Mr. A.D. Calihan

DATE June 19, 1952

ANSWERING LETTER DATE

ATTENTION

COPY TO F.E. Clark
L.A. Stephens
A. Skritnansky
File

SUBJECT Special Sample
"Lab. Waste Water"
Req. # 360135

The sample of "Laboratory Waste Water" which you submitted to us has been analyzed by our laboratory by both the fluorimetric and visual fluorescent procedures. Both procedures indicate that no uranium is present. The procedures are considered valid to <.01 parts per million.

The sample was assigned analytical requisition number 360135.

R K Bennett

R.K. BENNETT

/h

X-1100 (1-51)

REQUEST for ANALYSIS

MATERIAL: Contaminated Water

SUBMITTED BY: D. F Cronin

SOURCE: Laboratory Waste

ACCOUNT NO. 4405-26-624

REPORT TO: D.F. Cronin

BUILDING NO. 9213

DATE 6-13-52

TESTS DESIRED U mg/liter
% U235

Plate No 44
" 8

REMARKS:

TESTED BY CHECKED BY

REPORT TO	D. F CRONIN
CC:	Bldg 9213

LAB. NO.	IDENTIFICATION						
			Gross	5450.0 gm.			
	92008 E		TARE				
			NET				
L.03							
L.03							

REPORT OF ~~ANALYSIS~~

LAB. NO.

DATE REC'D

~~ASSIGNED~~ TO:

Dept 2773 Req # 360135

Dept 2773 Req # 360135

STANDARD ERROR AT 99.5 PERCENT CONFIDENCE LEVEL

REPORTED BY DATE

Special from Calihan — 360135

BATCH NUMBER | REQUISITION NUMBER

REPORT TO: Calihan

BUILDING NO. 9735 PHONE:

DESCRIPTION OF MATERIAL:

Lab Waste Water

ASSAY REQUESTED AT ☐ DT ☐	AT CODE NO.
ANALYSIS REQUESTED	REPORTED ANSWERS
GRAM U /GRAM	
	~~4.05 ppm~~
	<.01 ppm

SIGNED: RKB.

BY: DATE

ALYSIS REPORT

R-COMPANY CORRESPONDENCE

RBIDE AND CARBON CHEMICALS CORP. LOCATION Post Office Box P OAK RIDGE, TENN.

Calihan

rk
phens
itnansky

DATE June 19, 1952

ANSWERING LETTER DATE

SUBJECT Special Sample "Lab. Waste Water" Req. # 360135

le of "Laboratory Waste Water" which you submitted to us analyzed by our laboratory by both the fluorimetric and visual fluorescent procedures. Both procedures indicate that no uranium is present. The procedures are considered valid to <.01 parts per million.

The sample was assigned analytical requisition number 360135.

R K Bennett

R.K. BENNETT

/h

CORRECTED

INTER-COMPANY CORRESPONDENCE

OAK RIDGE NATIONAL LABORATORY
Operated By
CARBIDE AND CARBON CHEMICALS COMPANY

(INSERT NAME) COMPANY _____ LOCATION Post Office Box P, OAK RIDGE, TENN.

TO D. F. Cronin
LOCATION Bldg. 9213

DATE July 16, 1952

ANSWERING LETTER DATE

ATTENTION

COPY TO C. D. Susano, File (2)

SUBJECT Water Analysis

MATERIAL: Water
SOURCE: Storage tank, Bldg. 9213
ACCOUNT NO: 44054-31
SUBMITTED BY: D. F. Cronin, 6-2-52

TEST RESULTS

LABORATORY NO. / IDENTIFICATION	3712 Tank W	3713 Tank E	Standard Error Percent
Uranium, mg/L	1.2	28.	20

Tank E, Uranium assayed:

U^{235} 43.3 percent

U^{234} 0.56 percent

ANALYTICAL CHEMISTRY DIVISION – Y-12

H P House

ls

H. P. House

THIS FORM FOR INTER-COMPANY CORRESPONDENCE ONLY

X-81 (6-51)

East tanks

Date taken	#	Lab	U (mg/L)	
5/21/52	92005	9733-3	18	original
6/2/52	92006	9733-3	0.9	resample
6/13/52	92008	9995	<.01	resample

West tanks

Date	#	Lab	U (mg/L)
5/21/52	92004	9733-3	<0.2
6/2/52	92007	9733	0.1

Original samples sent to Chem lab Bldg 9733-3
for Analysis – East tanks showed 18 mg U/L. (5/21/52)
Both tanks resampled East tanks still high (6/2/52)
Sample from east tank only (6/13) sent to F.E Clark
at Bldg 9995 – no U found.
Requested that assay be run on sample
at 9733-3 which showed high U content

7258 FCU - 6/30/52
OK to drain tank to dike
DC

REPORT OF ANALYSIS LAB. NO. #3712-13

CRONIN DATE REC'D 6-2-52

ASSIGNED TO: 13

IDENTIFICATION	u
	mg/liter
92007 Tank W	0.9
92006 Tank E	0.1
Std. Error, percent	20

Note/ by above samples reversed N.E.

STANDARD ERROR AT 99.5 PERCENT CONFIDENCE LEVEL

REPORTED BY [signature] DATE JUN 6 1952

REPORT OF ANALYSIS LAB. NO. 3277-78

A. D. Callihan DATE REC'D 5-21-52

Rels. 9212 ASSIGNED TO: 13

IDENTIFICATION	u
	mg/l
92004W	<0.2
92005E	18
Std. Error, Percent	
u	20

STANDARD ERROR AT 99.5 PERCENT CONFIDENCE LEVEL

REPORTED BY [signature] DATE MAY 29 1952

Feb, 13, 1951 — Sample of Demineralized Water
Bldg 9213
Sample # 9200001 — Amt of Sample = 2 Quarts.
Sampled by D Browning

Sample # 9200002 — Mar. 4-1951
acetone used in cleaning [illegible] off Beryllium
for T. Prissey

			Lab #
92004 —	West tanks	May 21-52	3277-78 <0.2 U mg/L } Rec'd June 3-52
92005 —	East tanks	May 21-52	18 mg U/L
92006	East tank	June 2-52	
92007	West tanks	June 2-52	

92003 Main de-ionized water supply June 4, 1952

92008 Resample of 92005 + 92006 < .01 ppm U Lab # 360135

92009 sample of aluminum from 9213 received from X-10 used to fabricate sp. 23 vessels
June 19, 1952

SECRET

SECRET