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E. W. Christopherson, Manager
Analytical Laboratories

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2105 pages.

SELECTED RADIOISOTOPES' CONCENTRATIONS IN
INTEGRATED REACTOR EFFLUENT WATER SAMPLES

P. O. Jackson

December, 1962

Analytical Laboratories - Sub-section
Chemical Laboratory - Section

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- 1. R. B. Ball
- 2-3 P. O. Jackson

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*Corrections made in
manuscript 12/13/63*

December 3, 1963

R. B. Hall
3746 Building
300 Area

Please make the following corrections in your copy of the Integrated Water Analysis Report (HW-75958-RD).

<u>Page</u>	<u>Isotope</u>	<u>Result</u>
62	Co ⁶⁰ and Sc ⁴⁶	results switched
66	Zn ⁶⁵	3.9 x 10 ⁻⁶
107	Co ⁶⁰	2.3 x 10 ⁻⁷
112	Co ⁶⁰	<6 x 10 ⁻⁸
131	Sc ⁴⁶	8.6 x 10 ⁻⁷
137	Zn ⁶⁵	3.9 x 10 ⁻⁶
158	Sc ⁴⁶	<2.1 x 10 ⁻⁷
164	Cr ⁵¹	5.1 x 10 ⁻⁴
173	Co ⁶⁰	<2 x 10 ⁻⁷
187	Sc ⁴⁶	3.1 x 10 ⁻⁷

PO Jackson/RD Sandall

RDS:sr

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HW 75958 RD
COPY 2 OF A SERIES

CONTINUOUS PAGINATION FOR HW-75958 RD

AS OF <u>7-7-63</u>	(DATE) THIS DOCUMENT CONSISTS OF <u>302</u>	PAGES
AS OF <u>7-14-63</u>	(DATE) THIS DOCUMENT CONSISTS OF <u>511</u>	PAGES
AS OF <u>1-14-63</u>	(DATE) THIS DOCUMENT CONSISTS OF <u>51</u>	PAGES
AS OF <u>5/8/63</u>	(DATE) THIS DOCUMENT CONSISTS OF <u>106</u>	PAGES
AS OF <u>11/4/63</u>	(DATE) THIS DOCUMENT CONSISTS OF <u>195</u>	PAGES
AS OF <u>1/14/64</u>	(DATE) THIS DOCUMENT CONSISTS OF <u>219</u>	PAGES
AS OF <u>1/20/64</u>	(DATE) THIS DOCUMENT CONSISTS OF <u>240</u>	PAGES
AS OF <u>12/29/64</u>	(DATE) THIS DOCUMENT CONSISTS OF <u>248</u>	PAGES
AS OF <u>1-29-65</u>	(DATE) THIS DOCUMENT CONSISTS OF <u>257</u>	PAGES
AS OF <u>2-2-65</u>	(DATE) THIS DOCUMENT CONSISTS OF <u>265</u>	PAGES
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ANALYTICAL REPORT			
HW 75958 RD		HL RADIOLOGICAL ANALYSIS	
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5478	
SAMPLE DESIGNATION 100-F Integrator			
SAMPLE SITE			
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772
DATE - TIME SAMPLED 7/19-7/24/62 1125/0840	DATE RECEIVED	DATE COMPLETED	
ANALYSIS DESIRED I ¹³¹ , Sr ⁹⁰ , P ³² , Cs ¹³⁷ , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , Zr-Nb ⁹⁵ , Ru ¹⁰³ , Ru ¹⁰⁶ and Co ⁶⁰ .			

Isotope	µc/ml
I ¹³¹	3.0×10^{-7}
Sr ⁹⁰	6.3×10^{-9}
P ³²	1.7×10^{-6}
Cs ¹³⁷	$1.2 \times 10^{-8} \pm 3.2 \times 10^{-9}$
Zn ⁶⁵	1.0×10^{-5}
Sc ⁴⁶	7.8×10^{-7}
Cr ⁵¹	1.9×10^{-4}
Zr ⁹⁵	5.9×10^{-8}
Ru ¹⁰³	$\sim 1.9 \times 10^{-8}$
Ru ¹⁰⁶	$\sim 7.1 \times 10^{-9}$
Co ⁶⁰	$< 2.4 \times 10^{-7}$
Sr ⁸⁹	2.8×10^{-7}

Note: (1) Sr⁹⁰ result possibly up to 20% high from Ba¹⁴⁰ residue after Ba-Sr separation.

(2) Results decay corrected to sample off time 7/24/62, 0840.

/bbm

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HW 75958 RD		ANALYTICAL REPORT		-2-
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5493		
SAMPLE DESIGNATION 100-F Integrator				
SAMPLE SITE				
REQUESTED BY R. B. Ball	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 7/24-7/31/62 0900/0850	DATE RECEIVED	DATE COMPLETED		
ANALYSIS DESIRED I ¹³¹ , Sr ⁹⁰ , P ³² , Cs ¹³⁷ , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , Zr ⁹⁵ , Ru ¹⁰³ , Ru ¹⁰⁶ and Co ⁶⁰ .				

Isotope	µc/ml
I ¹³¹	$1.4 \times 10^{-7} \pm 4.9 \times 10^{-8}$
Sr ⁹⁰	4.9×10^{-9}
P ³²	1.8×10^{-6}
Cs ¹³⁷	$1.6 \times 10^{-8} \pm 3.8 \times 10^{-9}$
Zn ⁶⁵	1.1×10^{-5}
Sc ⁴⁶	9.9×10^{-7}
Cr ⁵¹	1.7×10^{-4}
Zr ⁹⁵	$7.7 \times 10^{-8} \pm 2.9 \times 10^{-8}$
Ru ¹⁰³	$\sim 1.6 \times 10^{-8}$
Ru ¹⁰⁶	$\sim 6.8 \times 10^{-9}$
Co ⁶⁰	$< 3.2 \times 10^{-7}$
Sr ⁸⁹	3.3×10^{-7}

Note: (1) Sr⁹⁰ results possibly up to 20% high from Ba¹⁴⁰ residue after Ba-Sr separation.

(2) Results decay corrected to the sample off date and time.

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HW 75958 RD		ANALYTICAL REPORT		-3-
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5511		
SAMPLE DESIGNATION 100-F Integrated Sample				
SAMPLE SITE				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 7/31-8/7/62 0850/0850	DATE RECEIVED	DATE COMPLETED		
ANALYSIS DESIRED I ¹³¹ , Sr ⁹⁰ , P ³² , Cs ¹³⁷ , Zr ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , Zr-Nb ⁹⁵ , Ru ¹⁰³ , Ru ¹⁰⁶ and Co ⁶⁰ .				

Isotope	µc/ml
I ¹³¹	$1.8 \times 10^{-7} \pm 5.1 \times 10^{-8}$
Sr ⁹⁰	8.5×10^{-9}
P ³²	3.2×10^{-6}
Cs ¹³⁷	$5.9 \times 10^{-9} \pm 1.1 \times 10^{-9}$
Zn ⁶⁵	1.3×10^{-5}
Sc ⁴⁶	2.8×10^{-6}
Cr ⁵¹	2.3×10^{-4}
Zr ⁹⁵	2.2×10^{-7}
Ru ¹⁰³	$\sim 2.9 \times 10^{-8}$
Ru ¹⁰⁶	$\sim 1.5 \times 10^{-8}$
Co ⁶⁰	$< 5.7 \times 10^{-7}$
Sr ⁸⁹	1.9×10^{-7}

Note: (1) Sr⁹⁰ result possibly high up to 20% from Ba¹⁴⁰ residue after Ba-Sr separation.

(2) Results decay corrected to the sampling off date and time 8/7/62, 0850.

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HW 75958 RD		ANALYTICAL REPORT		4-	
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5525			
SAMPLE DESIGNATION 100-F Integrated					
SAMPLE SITE					
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772		
DATE - TIME SAMPLED 8/7-8/15/62 0850/0845	DATE RECEIVED	DATE COMPLETED			
ANALYSIS DESIRED I ¹³¹ , Sr ⁹⁰ , P ³² , Cs ¹³⁷ , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , Zr-Nb ⁹⁵ , Ru ¹⁰³⁻¹⁰⁶ and Co ⁶⁰ .					

Isotope	μc/ml
I ¹³¹	$1.2 \times 10^{-7} \pm 4.6 \times 10^{-8}$
Sr ⁹⁰	6.8×10^{-9}
P ³²	5.4×10^{-6}
Cs ¹³⁷	$5.7 \times 10^{-9} \pm 1.5 \times 10^{-9}$
Zn ⁶⁵	9.9×10^{-6}
Sc ⁴⁶	9.4×10^{-6}
Cr ⁵¹	1.9×10^{-4}
Zr ⁹⁵	$4.6 \times 10^{-8} \pm 1.1 \times 10^{-8}$
Ru ¹⁰³	2.2×10^{-8}
Co ⁶⁰	$2.3 \times 10^{-7} \pm 1.3 \times 10^{-7}$
Ru ¹⁰⁶	$<4.5 \times 10^{-8}$
Sr ⁸⁹	2.6×10^{-7}

Note: (1) Sr⁹⁰ result possibly high up to 20% from Ba¹⁴⁰ residue after Ba-Sr separation.

(2) Results decay corrected to sampling off date and time 8/15/62, 0845.

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HW 75958 RD		ANALYTICAL REPORT		-5-
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5534		
SAMPLE DESIGNATION Integrated sample from 100-F				
SAMPLE SITE				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 8/15-8/21/62 0845/0845	DATE RECEIVED	DATE COMPLETED		
ANALYSIS DESIRED I ¹³¹ , Sr ⁹⁰ , P ³² , Cs ¹³⁷ , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , Zr ⁹⁵ , Ru ¹⁰³ , Ru ¹⁰⁶ , Co ⁶⁰ and Sr ⁸⁹ .				

Isotope	µc/ml
I ¹³¹	2.0 x 10 ⁻⁷
Sr ⁹⁰	3.4 x 10 ⁻⁹
P ³²	3.5 x 10 ⁻⁶
Cs ¹³⁷	8.7 x 10 ⁻⁹
Zn ⁶⁵	8.1 x 10 ⁻⁶
Sc ⁴⁶	7.8 x 10 ⁻⁷
Cr ⁵¹	3.2 x 10 ⁻⁴
Zr ⁹⁵	6.2 x 10 ⁻⁸ ± 1.3 x 10 ⁻⁸
Ru ¹⁰³	Lost
Ru ¹⁰⁶	Lost
Co ⁶⁰	1.8 x 10 ⁻⁷ ± 1.2 x 10 ⁻⁷
Sr ⁸⁹	1.1 x 10 ⁻⁷

Note: (1) Sr⁹⁰ result possibly high up to 20% from Ba¹⁴⁰ residue after Ba-Sr separation.

(2) Results corrected for decay to sampling off date and time 8/21/62, 0845.

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HW 75958 RD		ANALYTICAL REPORT		-6-
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5548		
SAMPLE DESIGNATION 100-F Integrated				
SAMPLE SITE				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 8/28/62 1000	DATE RECEIVED	DATE COMPLETED		
ANALYSIS DESIRED I ¹³¹ , Sr ⁹⁰ , P ³² , Cs ¹³⁷ , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , ZrNb ⁹⁵ , Ru ¹⁰³ , Ru ¹⁰⁶ and Co ⁶⁰ .				

Isotope	μc/ml
I ¹³¹	$1.7 \times 10^{-7} \pm 5.5 \times 10^{-8}$
Sr ⁹⁰	6.3×10^{-8}
P ³²	1.3×10^{-5}
Cs ¹³⁷	2.3×10^{-7}
Zn ⁶⁵	1.6×10^{-4}
Sc ⁴⁶	7.0×10^{-5}
Cr ⁵¹	4.7×10^{-4}
Zr ⁹⁵	4.6×10^{-6}
Ru ¹⁰³	1.5×10^{-6}
Ru ¹⁰⁶	3.2×10^{-7}
Co ⁶⁰	6.6×10^{-6}
Sr ⁸⁹	2.3×10^{-6}

Note: (1) Sr⁹⁰ result possibly high up to 20% from Ba¹⁴⁰ residue after Ba-La separation.

(2) Results corrected for decay to sampling off date and time 8/28/62, 1000.

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ANALYTICAL REPORT

HL RADIOLOGICAL ANALYSIS

-7-

HW-75958-RD

REQUESTOR'S SAMPLE NO.

ANALYSIS NO.

5577

SAMPLE DESIGNATION

100-F Integrated 107 Basin Sample

SAMPLE SITE

REQUESTED BY

AREA

BLDG.

PHONE

R. B. Hall

300

3746

3772

DATE - TIME SAMPLED

DATE RECEIVED

DATE COMPLETED

9/5-9/11/62 0900/0915

ANALYSIS DESIRED

I¹³¹, Sr⁹⁰, P³², Cs¹³⁷, Zn⁶⁵, Sc⁴⁶, Cr⁵¹, Zr⁹⁵, Ru¹⁰³⁻¹⁰⁶, Co⁶⁰ and Sr⁸⁹.Isotopeμc/mlI¹³¹ $1.4 \times 10^{-7} \pm 3.4 \times 10^{-8}$ Sr⁹⁰ 2.7×10^{-9} P³² 2.5×10^{-6} Cs¹³⁷ $5.0 \times 10^{-9} \pm 1.0 \times 10^{-9}$ Zn⁶⁵ 3.0×10^{-6} Sc⁴⁶ 2.0×10^{-6} Cr⁵¹ 2.2×10^{-4} Zr⁹⁵ 1.2×10^{-7} Ru^{103 (2)} $\sim 2.6 \times 10^{-8}$ Ru^{106 (2)} $\sim 1.7 \times 10^{-8}$ Co⁶⁰ 1.6×10^{-6} Sr⁸⁹ 8.1×10^{-8}

Note: (1) Results corrected to sampling off date and time 9/11/62, 0915.

(2) Insufficient activity was present to permit an exact analysis.

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SD-7600-086 (10-62) ARC-GE RICHLAND, WASH.

ANALYTICAL REPORT				-8-
REQUESTOR'S SAMPLE NO.		ANALYSIS NO.		
HW-75958-RD		5621		
SAMPLE DESIGNATION 100-F Integrated				
SAMPLE SITE				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 9/11-9/18/62 0915/0900	DATE RECEIVED	DATE COMPLETED		
ANALYSIS DESIRED				

Isotope	$\mu\text{c/ml}$
I ¹³¹	$1.2 \times 10^{-7} \pm 4.6 \times 10^{-8}$
Sr ⁹⁰	$4.9 \times 10^{-9} \pm 3.4 \times 10^{-9}$
P ³²	3.6×10^{-6}
Cs ¹³⁷	$4.3 \times 10^{-9} \pm 1.1 \times 10^{-9}$
Zn ⁶⁵	4.1×10^{-6}
Sc ⁴⁶	1.1×10^{-6}
Cr ⁵¹	2.5×10^{-4}
Zr ⁹⁵	1.1×10^{-7}
Ru ¹⁰³ (2)	$\sim 6.2 \times 10^{-9}$
Ru ¹⁰⁶ (2)	$\sim 1.1 \times 10^{-8}$
Co ⁶⁰	2.8×10^{-7}
Sr ⁸⁹	7.3×10^{-8}

- Note: (1) Results corrected to sampling off date and time 9/18/62, 0900.
(2) Insufficient activity was present to permit an exact analysis.

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12/28/62
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288

ANALYTICAL REPORT			
HW-75958-RD		HL RADIOLOGICAL ANALYSIS	
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5645	
SAMPLE DESIGNATION Integrated sample from 100-F Area			
SAMPLE SITE			
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772
DATE - TIME SAMPLED 9/18-9/25/62 0900/1450	DATE RECEIVED	DATE COMPLETED	
ANALYSIS DESIRED I ¹³¹ , Sr ⁹⁰ , P ³² , Cs ¹³⁷ , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , Zr ⁹⁵ , Ru ¹⁰³⁻¹⁰⁶ , Co ⁶⁰ , and Sr ⁸⁹ .			

Isotope	µc/ml
I ¹³¹	$3.6 \times 10^{-8} \pm 9.3 \times 10^{-9}$
Sr ⁹⁰	$< 4.1 \times 10^{-9}$
P ³²	3.8×10^{-6}
Cs ¹³⁷	$3.5 \times 10^{-9} \pm 9.2 \times 10^{-10}$
Zn ⁶⁵	2.6×10^{-6}
Sc ⁴⁶	6.2×10^{-7}
Cr ⁵¹	2.3×10^{-4}
Zr ⁹⁵	$1.9 \times 10^{-8} \pm 3.7 \times 10^{-9}$
Ru ^{103 (2)}	Lost
Ru ^{106 (2)}	Lost
Co ^{60 (2)}	Lost
Sr ⁸⁹	7.4×10^8

Note: (1) Results corrected to sample off date and time 9/25/62, 1450.

(2) There was insufficient sample to give complete isotopes requested.

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204

ANALYTICAL REPORT				-10-
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5653		
SAMPLE DESIGNATION Integrated samples from 100-F				
SAMPLE SITE				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 9/25-10/2/62 1350/0845	DATE RECEIVED	DATE COMPLETED		
ANALYSIS DESIRED I ¹³¹ , Sr ⁹⁰ , P ³² , Cs ¹³⁷ , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , Zr ⁹⁵ , Ru ¹⁰³⁻¹⁰⁶ , Co ⁶⁰ and Sr ⁸⁹ .				

Isotope	µc/ml
I ¹³¹	$3.2 \times 10^{-8} \pm 1.7 \times 10^{-8}$
Sr ⁹⁰	4.8×10^{-9}
P ³²	2.4×10^{-6}
Cs ¹³⁷	$8.2 \times 10^{-9} \pm 1.3 \times 10^{-9}$
Zn ⁶⁵	9.3×10^{-6}
Sc ⁴⁶	1.5×10^{-6}
Cr ⁵¹	2.2×10^{-4}
Zr ⁹⁵	2.5×10^{-7}
Ru ¹⁰³ (2)	$\sim 1.9 \times 10^{-7}$
Ru ¹⁰⁶ (2)	$< 1.1 \times 10^{-8}$
Co ⁶⁰	4.0×10^{-7}
Sr ⁸⁹	1.6×10^{-7}

Note: Results corrected to sampling off date and time 10/2/62, 0845.

(2) Insufficient activity was present to permit an exact analysis.

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208

ANALYTICAL REPORT

HL RADIOLOGICAL ANALYSIS

-11-

REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5674	
SAMPLE DESIGNATION Integrated sample from 100-F			
SAMPLE SITE			
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772
DATE - TIME SAMPLED 10/2-10/8/62 0845/0855	DATE RECEIVED	DATE COMPLETED	
ANALYSIS DESIRED I ¹³¹ , Sr ⁹⁰ , P ³² , Cs ¹³⁷ , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , Zr ⁹⁵ , Ru ¹⁰³⁻¹⁰⁶ , Co ⁶⁰ and Sr ⁸⁹ .			

<u>Isotope</u>	<u>μc/ml</u>
I ¹³¹	$1.6 \times 10^{-7} \pm 7.0 \times 10^{-8}$
Sr ⁹⁰	9.0×10^{-9}
P ³²	2.9×10^{-6}
Cs ¹³⁷ (2)	Lost
Zn ⁶⁵	1.3×10^{-5}
Sc ⁴⁶	3.2×10^{-6}
Cr ⁵¹	1.0×10^{-4}
Zr ⁹⁵	2.6×10^{-7}
Ru ¹⁰³ (3)	$\sim 3.2 \times 10^{-8}$
Ru ¹⁰⁶ (3)	$\sim 9.4 \times 10^{-9}$
Co ⁶⁰	$< 4.0 \times 10^{-7}$
Sr ⁸⁹	1.4×10^{-7}

- Note: (1) Results corrected to sampling off date and time 10/8/62, -855.
 (2) There was insufficient sample to give complete isotopes requested.
 (3) Insufficient activity was present to permit an exact analysis.

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ANALYTICAL REPORT				-12-
HW 75958 RD				HL RADIOLOGICAL ANALYSIS
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5741		
SAMPLE DESIGNATION 100-F Integrated Sample				
SAMPLE SITE				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 10/11-10/18/62 0920/0845	DATE RECEIVED	DATE COMPLETED		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

I ¹³¹	$<3.1 \times 10^{-8} \mu\text{c/ml}$
P ³²	$<3.3 \times 10^{-8} \mu\text{c/ml}$
Zn ⁶⁵	$2.2 \times 10^{-7} \mu\text{c/ml}$
Sc ⁴⁶	$7.9 \times 10^{-8} \mu\text{c/ml}$
Cr ⁵¹	$6.0 \times 10^{-6} \mu\text{c/ml}$
Co ⁶⁰	$<4.0 \times 10^{-7} \mu\text{c/ml}$

Note: All results are corrected to sample off time and date.

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ANALYTICAL REPORT			
IIH 75958 RD		HL RADIOLOGICAL ANALYSIS	
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5742	
SAMPLE DESIGNATION 100-DR Integrated Sample			
SAMPLE SITE			
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772
DATE - TIME SAMPLED 10/11-10/18/62 1010/0915	DATE RECEIVED	DATE COMPLETED	
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , Co ⁶⁰			

I ¹³¹	$4.9 \times 10^{-7} \mu\text{c/ml}$
P ³²	$5.2 \times 10^{-6} \mu\text{c/ml}$
Zn ⁶⁵	$8.1 \times 10^{-5} \mu\text{c/ml}$
Sc ⁴⁶	$2.1 \times 10^{-5} \mu\text{c/ml}$
Cr ⁵¹	$2.8 \times 10^{-4} \mu\text{c/ml}$
Co ⁶⁰	$2.4 \times 10^{-6} + 2.8 \times 10^{-7} \mu\text{c/ml}$

Note: All results are decay corrected to sample off date and time.

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ANALYTICAL REPORT				-14-
REQUESTOR'S SAMPLE NO.		ANALYSIS NO.		
SAMPLE DESIGNATION		5743		
100-B Integrated Sample				
SAMPLE SITE				
REQUESTED BY	AREA	BLDG.	PHONE	
R. B. Hall	300	3746	3772	
DATE - TIME SAMPLED	DATE RECEIVED	DATE COMPLETED		
10/11-10/18 1050/0945				
ANALYSIS DESIRED				
I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , Co^{60}				

Insufficient sample to run analysis.

/bbm

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12/17/62

POJ

HW 75958 RD		ANALYTICAL REPORT		-15-
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5744		
SAMPLE DESIGNATION 100-C Integrated Sample				
SAMPLE SITE				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 10/11-10/18 1045/0940	DATE RECEIVED	DATE COMPLETED 12-17-62		
ANALYSIS DESIRED I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , Co^{60}				

I^{131}	$3.1 \times 10^{-6} \mu\text{c/ml}$
P^{32}	$2.7 \times 10^{-6} \mu\text{c/ml}$
Zn^{65}	$1.6 \times 10^{-5} \mu\text{c/ml}$
Sc^{46}	$2.2 \times 10^{-6} \mu\text{c/ml}$
Cr^{51}	$3.9 \times 10^{-4} \mu\text{c/ml}$
Co^{60}	$1.0 \times 10^{-6} \pm 2.6 \times 10^{-7} \mu\text{c/ml}$

Note: All results are decay corrected to sample off date and time.

/bbm

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ANALYTICAL REPORT		-16-	
HW 75958 RD		HL RADIOLOGICAL ANALYSIS	
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5761	
SAMPLE DESIGNATION 100-DR Integrated Sample			
SAMPLE SITE			
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772
DATE - TIME SAMPLED 10/18-10/24-62 0915/1005	DATE RECEIVED	DATE COMPLETED 12/17/62	
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , Co ⁶⁰			

I ¹³¹	$2.5 \times 10^{-7} \pm 6.2 \times 10^{-8} \mu\text{c/ml}$
P ³²	$1.8 \times 10^{-6} \mu\text{c/ml}$
Zn ⁶⁵	$4.0 \times 10^{-5} \mu\text{c/ml}$
Sc ⁴⁶	$6.2 \times 10^{-6} \mu\text{c/ml}$
Cr ⁵¹	$4.9 \times 10^{-5} \mu\text{c/ml}$
Co ⁶⁰	$2.0 \times 10^{-6} \pm 9.0 \times 10^{-7} \mu\text{c/ml}$

Note: All results decay corrected to sample off date and time.

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HW 75958 RD		ANALYTICAL REPORT		-17-
REQUESTOR'S SAMPLE NO.		ANALYSIS NO.		
		5762		
SAMPLE DESIGNATION				
100-F Integrated Sample				
SAMPLE SITE				
REQUESTED BY	AREA	BLDG.	PHONE	
R. B. Hall	300	3746	3772	
DATE - TIME SAMPLED	DATE RECEIVED	DATE COMPLETED		
10/18-10/24/62 0845/0920		12/17/62		
ANALYSIS DESIRED				
I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , Co ⁶⁰				

I ¹³¹	$<4.1 \times 10^{-8} \mu\text{c/ml}$
P ³²	$1.4 \times 10^{-7} \pm 1.2 \times 10^{-7} \mu\text{c/ml}$
Zn ⁶⁵	$1.9 \times 10^{-7} \mu\text{c/ml}$
Sc ⁴⁶	$2.4 \times 10^{-8} \mu\text{c/ml}$
Cr ⁵¹	$4.4 \times 10^{-6} \mu\text{c/ml}$
Co ⁶⁰	$<6.1 \times 10^{-7} \mu\text{c/ml}$

Note: All results decay corrected to sample off date and time.

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IN 75958 RD		ANALYTICAL REPORT		-18-
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5763		
SAMPLE DESIGNATION 100-B Integrated Sample				
SAMPLE SITE				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 10/18-10/24/62 0945/1100	DATE RECEIVED	DATE COMPLETED 12/17/62		
ANALYSIS DESIRED I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , Co^{60}				

I^{131}	$4.6 \times 10^{-7} \mu\text{c/ml}$
P^{32}	$3.5 \times 10^{-6} \mu\text{c/ml}$
Zn^{65}	1.2×10^{-5}
Sc^{46}	5.8×10^{-7}
Cr^{51}	2.0×10^{-4}
Co^{60}	$4.3 \times 10^{-7} \pm 1.5 \times 10^{-7} \mu\text{c/ml}$

Note: All results decay corrected to sample off date and time.

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IN 75958 RD		ANALYTICAL REPORT		-19-
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5802		
SAMPLE DESIGNATION				
100-B Integrated Sample				
SAMPLE SITE				
REQUESTED BY	AREA	BLOG.	PHONE	
R. H. Hall	300	3746	3772	
DATE - TIME SAMPLED	DATE RECEIVED	DATE COMPLETED		
10/24-10/31/62 1100/1030		12/17/62		
ANALYSIS DESIRED				
I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , Co ⁶⁰				

I ¹³¹	$3.4 \times 10^{-7} \mu\text{c/ml}$
P ³²	$5.5 \times 10^{-6} \mu\text{c/ml}$
Zn ⁶⁵	9.9×10^{-5}
Sc ⁴⁶	2.6×10^{-5}
Cr ⁵¹	1.8×10^{-4}
Co ⁶⁰	$4.6 \times 10^{-6} \pm 4.8 \times 10^{-7} \mu\text{c/ml}$

Note: All results decay corrected to sample off date and time.

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ANALYTICAL REPORT				-20-
IN 75958 RD				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO.		
		5803		
SAMPLE DESIGNATION				
107-DR Integrated Sample				
SAMPLE SITE				
REQUESTED BY	AREA	BLDG.	PHONE	
R. B. Hall	300	3746	3772	
DATE - TIME SAMPLED	DATE RECEIVED	DATE COMPLETED		
10/24-10/31 1005/0945		12/17/62		
ANALYSIS DESIRED				
I ¹³¹ , p ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , Co ⁶⁰				

Isotope	µc/ml
I ¹³¹	$2.6 \times 10^{-7} \pm 7.8 \times 10^{-8}$
p ³²	1.2×10^{-6}
Am ⁶⁵	6.2×10^{-6}
Sc ⁴⁶	1.3×10^{-6}
Cr ⁵¹	8.4×10^{-5}
Co ⁶⁰	$1.5 \times 10^{-7} \pm 1.1 \times 10^{-7}$

Note: All results decay corrected to sample off date and time.

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EW 75958 RD		ANALYTICAL REPORT		-21-
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5804		
SAMPLE DESIGNATION				
100C Integrated Sample				
SAMPLE SITE				
REQUESTED BY	AREA	BLDG.	PHONE	
R. B. Hall	300	3746	3772	
DATE - TIME SAMPLED	DATE RECEIVED	DATE COMPLETED		
10/24-10/31/62 1045/1020		12/17/62		
ANALYSIS DESIRED				
I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , Co ⁶⁰				

<u>Isotope</u>	<u>μc/ml</u>
I ¹³¹	3.5×10^{-6}
P ³²	4.4×10^{-6}
Zn ⁶⁵	1.6×10^{-5}
Sc ⁴⁶	4.1×10^{-6}
Cr ⁵¹	3.7×10^{-4}
Co ⁶⁰	$<1.1 \times 10^{-6}$

Note: All results are decay corrected to sample/^{OFF}date and time.

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AN 75058 RD		ANALYTICAL REPORT		-22-
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5806		
SAMPLE DESIGNATION 100-F Integrated Sample				
SAMPLE SITE				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 10/24-10/31/62 0920/0850	DATE RECEIVED	DATE COMPLETED 12/17/62		
ANALYSIS DESIRED I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , Co^{60}				

<u>Isotope</u>	<u>$\mu B/ml$</u>
I^{131}	$<4.7 \times 10^{-8}$
P^{32}	$<5.5 \times 10^{-8}$
Zn^{65}	1.3×10^{-7}
Sc^{46}	1.7×10^{-8}
Cr^{51}	3.8×10^{-6}
Co^{60}	$<7.8 \times 10^{-8}$

Note: All results are decay corrected to sample off date and time.

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ANALYTICAL REPORT			
HL RADIOLOGICAL ANALYSIS			
REQUESTOR'S SAMPLE NO.		ANALYSIS NO.	
HW 75958 RD		5810	
SAMPLE DESIGNATION			
100-C Integrated Sample			
SAMPLE SITE			
REQUESTED BY	AREA	BLDG.	PHONE
R. B. Hall	300	3746	3772
DATE - TIME SAMPLED	DATE RECEIVED	DATE COMPLETED	
10/31-11/7/62 1020/0940		12/17/62	
ANALYSIS DESIRED			
I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , Co ⁶⁰			

Isotope	µc/ml
I ¹³¹	2.2 x 10 ⁻⁶
P ³²	2.5 x 10 ⁻⁶
Zn ⁶⁵	1.2 x 10 ⁻⁵
Sc ⁴⁶	7.5 x 10 ⁻⁷
Cr ⁵¹	1.7 x 10 ⁻⁴
Co ⁶⁰	3.6 x 10 ⁻⁷ ± 2.4 x 10 ⁻⁷

Note: All results are decay corrected to sample off date and time.

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ANALYTICAL REPORT			
IN 75958 RD		HL RADIOLOGICAL ANALYSIS	
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5811	
SAMPLE DESIGNATION 100-DR Integrated Sample			
SAMPLE SITE			
REQUESTED BY R. B. Ball	AREA 300	BLDG. 3746	PHONE 3772
DATE - TIME SAMPLED 10/31-11/7/62 0945/1030	DATE RECEIVED	DATE COMPLETED 12/17/62	
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , Co ⁶⁰			

Isotope	$\mu\text{C/gm}^{-1}$
I ¹³¹	3.9×10^{-7}
P ³²	2.0×10^{-6}
Zn ⁶⁵	3.6×10^{-6}
Sc ⁴⁶	4.8×10^{-7}
Cr ⁵¹	2.2×10^{-4}
Co ⁶⁰	$1.5 \times 10^{-7} \pm 1.2 \times 10^{-7}$

Note: All results are decay corrected to sample off date and time.

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ANALYTICAL REPORT HL RADIOLOGICAL ANALYSIS

-25-

REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5812	
SAMPLE DESIGNATION 100-F Integrated Sample			
SAMPLE SITE			
REQUESTED BY R. B. Ball	AREA 300	BLDG. 3746	PHONE 3772
DATE - TIME SAMPLED 10/31-11/7/62 0850/1100	DATE RECEIVED	DATE COMPLETED 12/17/62	
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , Co ⁶⁰			

Isotope	μc/ml
I ¹³¹	<8.0 x 10 ⁻⁸
P ³²	<4.1 x 10 ⁻⁸
Zn ⁶⁵	1.3 x 10 ⁻⁷
Sc ⁴⁶	<6.2 x 10 ⁻⁸
Cr ⁵¹	5.2 x 10 ⁻⁶
Co ⁶⁰	<5.8 x 10 ⁻⁹

Note: All results are decay corrected to sample off date and time.

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ANALYTICAL REPORT
HL RADIOLOGICAL ANALYSIS

-26-

EN 75958 RD		ANALYSIS NO. 5813	
REQUESTOR'S SAMPLE NO.			
SAMPLE DESIGNATION 100-B Integrated Sample			
SAMPLE SITE			
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772
DATE - TIME SAMPLED 10/31-11/7/62 1030/1000	DATE RECEIVED	DATE COMPLETED 12/17/62	
ANALYSIS DESIRED I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , Co^{60}			

Isotope	$\mu\text{c/ml}$
I^{131}	$1.7 \times 10^{-7} \pm 5.5 \times 10^{-8}$
P^{32}	2.2×10^{-6}
Zn^{65}	3.4×10^{-5}
Sc^{46}	7.5×10^{-6}
Cr^{51}	3.2×10^{-5}
Co^{60}	$2.2 \times 10^{-6} \pm 2.8 \times 10^{-7}$

Note: All results are decay corrected to sample off date and time.

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HW 75958 RD		ANALYTICAL REPORT		-27-
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5819		
SAMPLE DESIGNATION 100-DR Integrated Sample				
SAMPLE SITE				
REQUESTED BY R. B. Hall	AREA 300	BLOG. 3746	PHONE 3772	
DATE - TIME SAMPLED 11/7-11/14/62 1030/0945	DATE RECEIVED	DATE COMPLETED 12/17/62		
ANALYSIS DESIRED I^{131} , P^{32} , Sc^{46} , Co^{60} , Zn^{65} , Cr^{51}				

Isotope	$\mu\text{c/ml}$
I^{131}	4.5×10^{-7}
P^{32}	2.2×10^{-6}
Zn^{65}	5.2×10^{-6}
Cr^{51}	2.5×10^{-4}
Sc^{46}	4.3×10^{-7}
Co^{60}	$1.6 \times 10^{-7} \pm 1.4 \times 10^{-7}$

Note: All results are decay corrected to sample off time and date.

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HW 75958 RD		ANALYTICAL REPORT HL RADIOLOGICAL ANALYSIS		-28-
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5820		
SAMPLE DESIGNATION 100-F Integrated Sample				
SAMPLE SITE				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 11/7-11/14 1100/0900	DATE RECEIVED	DATE COMPLETED 12/17/62		
ANALYSIS DESIRED I ¹³¹ , p ³² , Co ⁶⁰ , Sc ⁴⁶ , Zn ⁶⁵ , Cr ⁵¹				

Isotope	μc/ml
I ¹³¹	5.1 x 10 ⁻⁷
p ³²	2.9 x 10 ⁻⁶
Cr ⁵¹	2.6 x 10 ⁻⁴
Zn ⁶⁵	6.9 x 10 ⁻⁶
Sc ⁴⁶	6.2 x 10 ⁻⁷
Co ⁶⁰	2.5 x 10 ⁻⁷ ± 1.7 x 10 ⁻⁷

Note: All results are decay corrected to sample off date and time.

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HW 75958 RD		ANALYTICAL REPORT		-29-
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5821		
SAMPLE DESIGNATION 100-C Integrated Sample				
SAMPLE SITE				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 11/7-11/14/62 0940/1130	DATE RECEIVED	DATE COMPLETED 12/17/62		
ANALYSIS DESIRED I ¹³¹ , P ³² , Sc ⁴⁶ , Cr ⁵¹ , Co ⁶⁰ , Zn ⁶⁵				

Isotope	μc/ml
I ¹³¹	6.4 x 10 ⁻⁷
P ³²	2.8 x 10 ⁻⁶
Cr ⁵¹	3.3 x 10 ⁻⁴
Zn ⁶⁵	1.2 x 10 ⁻⁵
Sc ⁴⁶	4.9 x 10 ⁻⁷
Co ⁶⁰	2.6 x 10 ⁻⁷ ± 1.9 x 10 ⁻⁷

Note: All results are decay corrected to sample off date and time.

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HW 75958 RD		ANALYTICAL REPORT		-30-
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5822		
SAMPLE DESIGNATION 100-B Integrated Sample				
SAMPLE SITE				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 11/7-11/14/62 1000/1045	DATE RECEIVED	DATE COMPLETED 12/17/62		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Co ⁶⁰ , Sc ⁴⁶ , Cr ⁵¹				

<u>Isotope</u>	<u>μc/ml</u>
I ¹³¹	$6.8 \times 10^{-8} \pm 4.8 \times 10^{-8}$
P ³²	1.2×10^{-6}
Cr ⁵¹	1.3×10^{-5}
Zn ⁶⁵	1.5×10^{-5}
Sc ⁴⁶	1.9×10^{-6}
Co ⁶⁰	$5.1 \times 10^{-7} \pm 1.5 \times 10^{-7}$

Note: All results are decay corrected to sample date and time.

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HW 75958 RD		ANALYTICAL REPORT		-31-
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5830		
SAMPLE DESIGNATION 107-C Integrated Sample				
SAMPLE SITE				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 11/14-11/21/62 1030/1050	DATE RECEIVED	DATE COMPLETED 12/17/62		
ANALYSIS DESIRED I ¹³¹ , Zn ⁶⁵ , Cr ⁵¹ , Sc ⁴⁶ , P ³² , Co ⁶⁰				

<u>Isotope</u>	<u>µc/ml</u>
I ¹³¹	1.6 x 10 ⁻⁶
P ³²	2.1 x 10 ⁻⁶
Cr ⁵¹	2.1 x 10 ⁻⁴
Zn ⁶⁵	1.5 x 10 ⁻⁵
Sc ⁴⁶	8.0 x 10 ⁻⁷
Co ⁶⁰	4.8 x 10 ⁻⁷ ± 2.4 x 10 ⁻⁷

Note: All results are decay corrected to sample off date and time.

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HW 75958 RD		ANALYTICAL REPORT		-32-
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5831		
SAMPLE DESIGNATION 107-H Integrated Sample				
SAMPLE SITE				
REQUESTED BY R. B. Hall	AREA 300	BLOG. 3746	PHONE 3772	
DATE - TIME SAMPLED 11/14-11/21/62	DATE RECEIVED	DATE COMPLETED 12/17/62		
ANALYSIS DESIRED I ¹³¹ , P ³² , Co ⁶⁰ , Sc ⁴⁶ , Zn ⁶⁵ , Cr ⁵¹				

Isotope	μc/ml
I ¹³¹	$1.3 \times 10^{-7} \pm 5.2 \times 10^{-8}$
P ³²	3.4×10^{-6}
Cr ⁵¹	1.7×10^{-4}
Zn ⁶⁵	7.3×10^{-6}
Sc ⁴⁶	2.4×10^{-6}
Co ⁶⁰	$3.7 \times 10^{-7} \pm 1.4 \times 10^{-7}$

Note: All results are decay corrected to sample off date and time.

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ANALYTICAL REPORT HL RADIOLOGICAL ANALYSIS				-33-
HW 75958 RD REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5832		
SAMPLE DESIGNATION 107-F Integrated Sample				
SAMPLE SITE				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 11/14-11/21/62 0900/0900	DATE RECEIVED 11/21/62	DATE COMPLETED 12/17/62		
ANALYSIS DESIRED I^{131} , P^{32} , Co^{60} , Sc^{46} , Zn^{65} , Cr^{51}				

Isotope	$\mu\text{c/ml}$
I^{131}	3.8×10^{-7}
P^{32}	4.1×10^{-6}
Cr^{51}	2.4×10^{-4}
Zn^{65}	9.6×10^{-6}
Sc^{46}	7.5×10^{-7}
Co^{60}	$1.9 \times 10^{-7} \pm 1.5 \times 10^{-7}$

Note: All results are decay corrected to sample off date and time.

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AN 75958 RD		ANALYTICAL REPORT HL RADIOLOGICAL ANALYSIS		-34-
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5833		
SAMPLE DESIGNATION 107-B Integrated Sample				
SAMPLE SITE				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 11/14-11/21/62 1045/1040	DATE RECEIVED	DATE COMPLETED 12/17/62		
ANALYSIS DESIRED I^{131} , P^{32} , Co^{60} , Sc^{46} , Zn^{65} , Cr^{51}				

<u>Isotope</u>	<u>$\mu c/ml$</u>
I^{131}	6.4×10^{-7}
P^{32}	1.5×10^{-6}
Cr^{51}	9.7×10^{-5}
Zn^{65}	5.8×10^{-6}
Sc^{46}	7.0×10^{-7}
Co^{60}	$2.0 \times 10^{-7} \pm 1.5 \times 10^{-7}$

Note: All results are decay corrected to sample off date and time.

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HW 75958 RD		ANALYTICAL REPORT HL RADIOLOGICAL ANALYSIS		-35-
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5834		
SAMPLE DESIGNATION 107-DR Integrated Sample				
SAMPLE SITE				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 11/14-11/21/62 0945/0950	DATE RECEIVED	DATE COMPLETED 12/17/62		
ANALYSIS DESIRED I^{131} , P^{32} , Co^{60} , Sc^{46} , Zn^{65} , Cr^{51}				

Isotope	$\mu\text{c/ml}$
I^{131}	3.8×10^{-7}
P^{32}	2.1×10^{-6}
Cr^{51}	1.6×10^{-4}
Zn^{65}	9.2×10^{-6}
Sc^{46}	7.8×10^{-7}
Co^{60}	$3.2 \times 10^{-7} \pm 1.4 \times 10^{-7}$

Note: All results are decay corrected to sample off date and time.

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ANALYTICAL REPORT
HL RADIOLOGICAL ANALYSIS

-36-

HW-75958-RD

REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5837	
SAMPLE DESIGNATION Integrated sample from 100-H			
SAMPLE SITE			
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772
DATE - TIME SAMPLED 11/21-11/28/62 0930/0930	DATE RECEIVED 11-28-62	DATE COMPLETED	
ANALYSIS DESIRED I ¹³¹ , p ³² , Zn ⁶⁵ , Co ⁶⁰ , Cr ⁵¹ , Sc ⁴⁶			

Isotope	μc/ml
I ¹³¹	$1.3 \times 10^{-7} \pm 4.9 \times 10^{-8}$
p ³²	4.8×10^{-6}
Zn ⁶⁵	2.2×10^{-5}
Co ⁶⁰	8.0×10^{-7}
Cr ⁵¹	1.3×10^{-4}
Sc ⁴⁶	4.6×10^{-6}

Note: All results are decay corrected to sample off date and time.

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209

ANALYTICAL REPORT				-37-
HW-75958-RD				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5838		
SAMPLE DESIGNATION Integrated sample from 100-B Area				
SAMPLE SITE				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 11/21-11/28/62 1040/1125	DATE RECEIVED 11/28/62	DATE COMPLETED		
ANALYSIS DESIRED I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , Co^{60}				

<u>Isotope</u>	<u>$\mu\text{c/ml}$</u>
I^{131}	5.3×10^{-7}
P^{32}	3.1×10^{-6}
Zn^{65}	1.1×10^{-5}
Sc^{46}	7.2×10^{-7}
Cr^{51}	3.3×10^{-4}
Co^{60}	$1.7 \times 10^{-7} \pm 1.1 \times 10^{-7}$

Note: All results are decay corrected to sample off date and time.

/bbm

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209

ANALYTICAL REPORT				-38-
HW-75958-RD				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5839		
SAMPLE DESIGNATION Integrated sample from 100-C Area				
SAMPLE SITE				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 11/21-11/28/62 1050/1145	DATE RECEIVED 11/28/62	DATE COMPLETED 1/15/63		
ANALYSIS DESIRED I^{131} , P^{32} , Cr^{51} , Zn^{65} , Co^{60} , Sc^{46}				

<u>Isotope</u>	<u>µc/ml</u>
I^{131}	1.5×10^{-6}
P^{32}	2.6×10^{-6}
Cr^{51}	3.3×10^{-4}
Zn^{65}	1.8×10^{-5}
Co^{60}	2.9×10^{-7}
Sc^{46}	7.7×10^{-7}

Note: All results are decay corrected to sample off date and time.

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209

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SD-7600-086 (10-62) AEC-62 RICHLAND, WASH.

ANALYTICAL REPORT			
HW-75958-RD		HL RADIOLOGICAL ANALYSIS	
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5840	
SAMPLE DESIGNATION Integrated sample from 100-D			
SAMPLE SITE			
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772
DATE - TIME SAMPLED 11/21/11/28/62 0950/1040	DATE RECEIVED 11/28/62	DATE COMPLETED 1/15/63	
ANALYSIS DESIRED I^{131} , P^{32} , Cr^{51} , Sc^{46} , Co^{60} , Zn^{65}			

<u>Isotope</u>	<u>µc/ml</u>
I^{131}	5.4×10^{-7}
P^{32}	2.6×10^{-6}
Cr^{51}	1.8×10^{-4}
Zn^{65}	1.0×10^{-5}
Sc^{46}	7.4×10^{-7}
Co^{60}	4.3×10^{-7}

Note: All results are decay corrected to sample off date and time.

/bbm

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ANALYTICAL REPORT				-40-
HW-75958-RD				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO.		
		5841		
SAMPLE DESIGNATION				
Integrated sample from 100-F Area				
SAMPLE SITE				
REQUESTED BY	AREA	BLDG.	PHONE	
R. B. Hall	300	3746	3772	
DATE - TIME SAMPLED	DATE RECEIVED	DATE COMPLETED		
11/21-11/28/62 0900/0900	11/28/62	1/15/63		
ANALYSIS DESIRED				
I ¹³¹ , P ³² , Sc ⁴⁶ , Cr ⁵¹ , Zn ⁶⁵ , Co ⁶⁰				

<u>Isotope</u>	<u>μc/ml</u>
I ¹³¹	4.6 x 10 ⁻⁷
P ³²	3.8 x 10 ⁻⁶
Sc ⁴⁶	7.8 x 10 ⁻⁷
Cr ⁵¹	2.2 x 10 ⁻⁴
Zn ⁶⁵	9.3 x 10 ⁻⁶
Co ⁶⁰	2.6 x 10 ⁻⁷

Note: All results are decay corrected to sample off date and time.

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ANALYTICAL REPORT		41-	
HW-75958-RD		HL RADIOLOGICAL ANALYSIS	
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5846	
SAMPLE DESIGNATION Integrated sample from 100-F Area			
SAMPLE SITE			
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772
DATE - TIME SAMPLED 11/28-12/5/62 0900/1030	DATE RECEIVED 12/5/62	DATE COMPLETED 1/15/63	
ANALYSIS DESIRED I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , Co^{60}			

Isotope	$\mu\text{c/ml}$
I^{131}	$2.2 \times 10^{-7} \pm 4.9 \times 10^{-8}$
P^{32}	2.8×10^{-6}
Zn^{65}	9.1×10^{-6}
Sc^{46}	7.8×10^{-7}
Cr^{51}	2.4×10^{-4}
Co^{60}	$2.2 \times 10^{-7} \pm 1.1 \times 10^{-7}$

Note: All results are decay corrected to sample off date and time.

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209

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ANALYTICAL REPORT			
HW-75958-RD		HL RADIOLOGICAL ANALYSIS	
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5847	
SAMPLE DESIGNATION Integrated sample from 100-H			
SAMPLE SITE			
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772
DATE - TIME SAMPLED 11/28-12/5/62 0930/1015	DATE RECEIVED 12/5/62	DATE COMPLETED 1/15/63	
ANALYSIS DESIRED I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , Co^{60}			

<u>Isotope</u>	<u>μc/ml</u>
I^{131}	3.8×10^{-7}
P^{32}	2.6×10^{-5}
Zn^{65}	4.3×10^{-4}
Sc^{46}	1.0×10^{-4}
Cr^{51}	1.1×10^{-3}
Co^{60}	1.7×10^{-5}

Note: All results are decay corrected to sample off date and time.

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209

ANALYTICAL REPORT
HL RADIOLOGICAL ANALYSIS

-43-

HW-75958-RD

REQUESTOR'S SAMPLE NO.

ANALYSIS NO.

5848

SAMPLE DESIGNATION

Integrated sample from 100-D

SAMPLE SITE

REQUESTED BY

R. B. Hall

AREA

300

BLDG.

3746

PHONE

3772

DATE - TIME SAMPLED

11/28-12/5/62 1000/0955

DATE RECEIVED

12/5/62

DATE COMPLETED

1/15/63

ANALYSIS DESIRED

 I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , Co^{60} Isotope $\mu\text{c/ml}$ I^{131} 3.2×10^{-7} P^{32} 3.7×10^{-6} Zn^{65} 9.4×10^{-6} Sc^{46} 7.7×10^{-7} Cr^{51} 2.3×10^{-4} Co^{60} 3.2×10^{-7}

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Note: All results are decay corrected to sample off date and time.

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ANALYTICAL REPORT HL RADIOLOGICAL ANALYSIS

-44-

HW-75958-RD

REQUESTOR'S SAMPLE NO.

ANALYSIS NO.

5849

SAMPLE DESIGNATION

Integrated sample from 100-DR

SAMPLE SITE

REQUESTED BY

R. B. Hall

AREA

300

BLOG.

3746

PHONE

3772

DATE - TIME SAMPLED

11/28-12/5/62 1040-1000

DATE RECEIVED

12/5/62

DATE COMPLETED

1/15/63

ANALYSIS DESIRED

 I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , Co^{60}
Isotope
μc/ml
 I^{131}
 4.0×10^{-7}
 P^{32}
 2.2×10^{-6}
 Zn^{65}
 8.8×10^{-6}
 Sc^{46}
 5.8×10^{-7}
 Cr^{51}
 1.9×10^{-4}
 Co^{60}
 $1.7 \times 10^{-7} \pm 1.1 \times 10^{-7}$

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Note: All results are decay corrected to sample off date and time.

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ANALYTICAL REPORT			
HW-75958-RD		HL RADIOLOGICAL ANALYSIS	
REQUESTOR'S SAMPLE NO.		ANALYSIS NO.	
		5850	
SAMPLE DESIGNATION			
Integrated sample from 100-B			
SAMPLE SITE			
REQUESTED BY		AREA	BLDG.
R. B. Hall		300	3746
DATE - TIME SAMPLED		DATE RECEIVED	DATE COMPLETED
11/28-12/5/62 1115/0930		12/5/62	1/15/63
ANALYSIS DESIRED			
I ¹³¹ , p ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , Co ⁶⁰			

Isotope	μc/ml
I ¹³¹	2.6 x 10 ⁻⁶
p ³²	1.6 x 10 ⁻⁶
Zn ⁶⁵	7.0 x 10 ⁻⁵
Sc ⁴⁶	7.3 x 10 ⁻⁶
Cr ⁵¹	2.1 x 10 ⁻⁴
Co ⁶⁰	1.6 x 10 ⁻⁶

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Note: All results are decay corrected to sample off date and time.

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ANALYTICAL REPORT				-46-
HW-75958-RD				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5851		
SAMPLE DESIGNATION Integrated sample from 100-C Area				
SAMPLE SITE				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 11/28-12/5/62 1145/0925	DATE RECEIVED 12/5/62	DATE COMPLETED 1/15/63		
ANALYSIS DESIRED I ¹³¹ , p ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , Co ⁶⁰				

<u>Isotope</u>	<u>µc/ml</u>
I ¹³¹	5.3 x 10 ⁻⁷
p ³²	4.2 x 10 ⁻⁶
Zn ⁶⁵	2.0 x 10 ⁻⁵
Sc ⁴⁶	2.4 x 10 ⁻⁶
Cr ⁵¹	1.0 x 10 ⁻⁴
Co ⁶⁰	3.8 x 10 ⁻⁷

Note: All results are decay corrected to sample off date and time.

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209

ANALYTICAL REPORT			
HW-75958-RD		HL RADIOLOGICAL ANALYSIS	
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5864	
SAMPLE DESIGNATION Integrated sample from 100-B			
SAMPLE SITE			
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772
DATE - TIME SAMPLED 12/5/-12/12/62 0930/0935	DATE RECEIVED 12/12/62	DATE COMPLETED 1/15/63	
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , Co ⁶⁰			

Isotope	µc/ml
I ¹³¹	9.8 x 10 ⁻⁷
P ³²	6.9 x 10 ⁻⁷
Zn ⁶⁵	2.5 x 10 ⁻⁵
Sc ⁴⁶	2.0 x 10 ⁻⁶
Cr ⁵¹	2.2 x 10 ⁻⁵
Co ⁶⁰	8.8 x 10 ⁻⁷

Note: All results are decay corrected to sample off date and time.

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ANALYTICAL REPORT

HL RADIOLOGICAL ANALYSIS

-48-

HW-75958-RD

REQUESTOR'S SAMPLE NO.

ANALYSIS NO.

5865

SAMPLE DESIGNATION

Integrated sample from 100-F

SAMPLE SITE

REQUESTED BY

R. B. Hall

AREA

300

BLDG.

3746

PHONE

3772

DATE - TIME SAMPLED

12/5/62 - 12/12/62 1030/1045

DATE RECEIVED

12/12/62

DATE COMPLETED

1/15/63

ANALYSIS DESIRED

I¹³¹, P³², Zn⁶⁵, Sc⁴⁶, Cr⁵¹, Co⁶⁰

Isotope

μc/ml

I¹³¹

9.2 x 10⁻⁷

P³²

2.6 x 10⁻⁶

Zn⁶⁵

1.1 x 10⁻⁵

Sc⁴⁶

6.7 x 10⁻⁷

Cr⁵¹

2.3 x 10⁻⁴

Co⁶⁰

3.5 x 10⁻⁷

Note: All results are decay corrected to sample off date and time.

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208

ANALYTICAL REPORT			
HL RADIOLOGICAL ANALYSIS			
EN-75958-RD		49-	
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5866	
SAMPLE DESIGNATION Integrated sample from 100-DR Area			
SAMPLE SITE			
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772
DATE - TIME SAMPLED 12/5-12/2/62 1000/1020	DATE RECEIVED 12/12/62	DATE COMPLETED 1/15/63	
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , Co ⁶⁰			

Isotope	µc/ml
I ¹³¹	3.4 x 10 ⁻⁷
P ³²	2.0 x 10 ⁻⁶
Zn ⁶⁵	7.0 x 10 ⁻⁶
Sc ⁴⁶	3.8 x 10 ⁻⁷
Cr ⁵¹	2.2 x 10 ⁻⁴
Co ⁶⁰	1.3 x 10 ⁻⁷ ± 1.2 x 10 ⁻⁷

Note: All results are decay corrected to sample off date and time.

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209

ANALYTICAL REPORT

HL RADIOLOGICAL ANALYSIS

HW-75958-RD

-50-

REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5867	
SAMPLE DESIGNATION Integrated sample from 100-C Area			
SAMPLE SITE			
REQUESTED BY R. B. Ball	AREA 300	BLDG. 3746	PHONE 3772
DATE - TIME SAMPLED 12/5-12/12/62 0925/0930	DATE RECEIVED 12/12/62	DATE COMPLETED 1/15/63	
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , Co ⁶⁰			

<u>Isotope</u>	<u>μc/ml</u>
I ¹³¹	5.4 x 10 ⁻⁷
P ³²	7.2 x 10 ⁻⁷
Zn ⁶⁵	2.1 x 10 ⁻⁵
Sc ⁴⁶	8.6 x 10 ⁻⁷
Cr ⁵¹	1.2 x 10 ⁻⁵
Co ⁶⁰	2.6 x 10 ⁻⁷

Note: All results are decay corrected to sample off date and time.

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ANALYTICAL REPORT
HL RADIOLOGICAL ANALYSIS

EW-75958-RD

-51-

REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5263	
SAMPLE DESIGNATION Integrated sample from 107-H			
SAMPLE SITE			
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772
DATE - TIME SAMPLED 12/5-12/12/62 1015/1030	DATE RECEIVED 12/12/62	DATE COMPLETED 1/15/63	
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , Co ⁶⁰			

<u>Isotope</u>	<u>c/ml</u>
I ¹³¹	2.5 x 10 ⁻⁷
P ³²	1.2 x 10 ⁻⁵
Zn ⁶⁵	2.5 x 10 ⁻⁵
Sc ⁴⁶	4.6 x 10 ⁻⁶
Cr ⁵¹	3.4 x 10 ⁻⁵
Co ⁶⁰	1.2 x 10 ⁻⁶

Note: All results are decay corrected to sample date and time off.

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RD-7600-056 (10-62) AEC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		-52-
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO.		
		5875		
SAMPLE DESIGNATION				
Integrated Sample from 100-D				
SAMPLE SITE				
REQUESTED BY	AREA	BLDG.	PHONE	
R. B. Ball	300	3746	3772	
DATE - TIME SAMPLED	DATE RECEIVED	DATE COMPLETED		
12/12, 0910 - 12/19, 0905				
ANALYSIS DESIRED				
I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , Co^{60}				

I^{131}	$2.8 \times 10^{-7} \mu\text{c/ml}$
P^{32}	$3.4 \times 10^{-6} \mu\text{c/ml}$
Zn^{65}	$1.2 \times 10^{-5} \mu\text{c/ml}$
Sc^{46}	$1.1 \times 10^{-6} \mu\text{c/ml}$
Cr^{51}	$1.9 \times 10^{-4} \mu\text{c/ml}$
Co^{60}	$5.3 \times 10^{-7} \mu\text{c/ml}$

Note: All results are corrected for isotopic decay to sample "off" time.

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RD-7600-056 (10-62) AEC-GE RICHLAND, WASH.

ANALYTICAL REPORT				-53-
HW-75958-BD				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5876		
SAMPLE DESIGNATION Integrated sample from 100-H				
SAMPLE SITE				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 12/12, 1030 - 12/19, 1035	DATE RECEIVED	DATE COMPLETED		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , Co ⁶⁰				

I ¹³¹	$1.5 \times 10^{-7} \pm 4.8 \times 10^{-8} \mu\text{c/ml}$
P ³²	$2.1 \times 10^{-6} \mu\text{c/ml}$
Cr ⁵¹	1.1×10^{-5}
Zn ⁶⁵	8.4×10^{-6}
Sc ⁴⁶	7.7×10^{-7}
Co ⁶⁰	6.9×10^{-7}

Note: All results are corrected for isotopic decay to sample "off" time.

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BD-7600-056 (10-62) AEC-GE RICHLAND, WASH

ANALYTICAL REPORT			
HW-75958-RD		HL RADIOLOGICAL ANALYSIS	
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5877	
SAMPLE DESIGNATION Integrated sample from 100-F			
SAMPLE SITE			
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772
DATE - TIME SAMPLED 12/12, 1015 - 12/19, 1045	DATE RECEIVED	DATE COMPLETED	
ANALYSIS DESIRED I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , Co^{60}			

I^{131}	$2.6 \times 10^{-7} \pm 6.1 \times 10^{-8} \mu\text{c/ml}$
P^{32}	$2.7 \times 10^{-6} \mu\text{c/ml}$
Zn^{65}	1.0×10^{-5}
Sc^{46}	9.0×10^{-7}
Cr^{51}	2.6×10^{-4}
Co^{60}	3.8×10^{-7}

Note: All results are corrected for isotopic decay to sample "off" time.

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BD-7600-056 (10-62) AEC-GE RICHLAND, WASH.

HW-75958-RD		ANALYTICAL REPORT		-55-
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5880		
SAMPLE DESIGNATION Integrated sample from 100-D				
SAMPLE SITE				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 12/19, 1000 - 12/26/62, 0915	DATE RECEIVED	DATE COMPLETED		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , Co ⁶⁰				

I ¹³¹	$1.1 \times 10^{-6} \mu\text{c/ml}$
P ³²	$5.5 \times 10^{-6} \mu\text{c/ml}$
Zn ⁶⁵	$1.5 \times 10^{-5} \mu\text{c/ml}$
Sc ⁴⁶	$1.1 \times 10^{-6} \mu\text{c/ml}$
Cr ⁵¹	$2.2 \times 10^{-4} \mu\text{c/ml}$
Co ⁶⁰	$6.2 \times 10^{-7} \mu\text{c/ml}$

Note: All results are corrected for isotopic decay to sample "off" time.

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EW-75958-RD		ANALYTICAL REPORT		-56-
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5881		
SAMPLE DESIGNATION Integrated sample from 100-F				
SAMPLE SITE				
REQUESTED BY R. B. Ball	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 12/19, 1045 - 12/26/62, 0955	DATE RECEIVED	DATE COMPLETED		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , Co ⁶⁰				

I ¹³¹	$2.2 \times 10^{-7} \mu\text{c/ml}$
P ³²	$9.3 \times 10^{-6} \mu\text{c/ml}$
Cr ⁵¹	$2.9 \times 10^{-4} \mu\text{c/ml}$
Zn ⁶⁵	$1.2 \times 10^{-5} \mu\text{c/ml}$
Sc ⁴⁶	$9.4 \times 10^{-7} \mu\text{c/ml}$
Co ⁶⁰	$4.0 \times 10^{-7} \mu\text{c/ml}$

Note: All results are corrected for isotopic decay to sample "off" time.

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FD-7600-086 (10-62) AEC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT HL RADIOLOGICAL ANALYSIS		-57-
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5882		
SAMPLE DESIGNATION Integrated sample from 100-B				
SAMPLE SITE				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 12/19, 0935 - 12/26/63, 0855	DATE RECEIVED 12/26/62	DATE COMPLETED		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , Co ⁶⁰				

I ¹³¹	1.9 x 10 ⁻⁷ µc/ml
P ³²	3.1 x 10 ⁻⁶ µc/ml
Cr ⁵¹	1.5 x 10 ⁻⁴ µc/ml
Zn ⁶⁵	1.4 x 10 ⁻⁵ µc/ml
Sc ⁴⁶	2.7 x 10 ⁻⁶ µc/ml
Co ⁶⁰	4.6 x 10 ⁻⁷ µc/ml

Note: All results are corrected for isotopic decay to sample "off" time.

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RD-7600-056 (10-62) AEC-GE RICHLAND, WASH.

AN-75958-RD		ANALYTICAL REPORT		-58-
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO.		
		5883		
SAMPLE DESIGNATION				
Integrated sample from 100-H				
SAMPLE SITE				
REQUESTED BY	AREA	BLDG.	PHONE	
R. B. Hall	300	3746	3772	
DATE - TIME SAMPLED	DATE RECEIVED	DATE COMPLETED		
12/19/62, 1036 - 12/26, 0935	12/26/62			
ANALYSIS DESIRED				
I ¹³¹ , P ³² , Sc ⁴⁶ , Zn ⁶⁵ , Cr ⁵¹ , Co ⁶⁰				

I ¹³¹	$8.9 \times 10^{-8} \pm 4.4 \times 10^{-8} \mu\text{c/ml}$
P ³²	$1.3 \times 10^{-6} \mu\text{c/ml}$
Cr ⁵¹	$5.5 \times 10^{-6} \mu\text{c/ml}$
Zn ⁶⁵	$5.1 \times 10^{-6} \mu\text{c/ml}$
Sc ⁴⁶	$4.2 \times 10^{-7} \mu\text{c/ml}$
Co ⁶⁰	$5.0 \times 10^{-7} \mu\text{c/ml}$

Note: All results are corrected for isotopic decay to sample "off" time.

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RD-7600-056 (10-62) AEC-66 RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		-59-
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5884		
SAMPLE DESIGNATION Integrated Sample from 100-C				
SAMPLE SITE				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 12/19/62, 0930 - 12/26/62, 0900	DATE RECEIVED 12/26/62	DATE COMPLETED		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , Co ⁶⁰				

I ¹³¹	$5.3 \times 10^{-8} \pm 4.2 \times 10^{-8} \mu\text{c/ml}$
P ³²	$7.1 \times 10^{-7} \mu\text{c/ml}$
Cr ⁵¹	$2.6 \times 10^{-5} \mu\text{c/ml}$
Zn ⁶⁵	$1.1 \times 10^{-5} \mu\text{c/ml}$
Sc ⁴⁶	$8.5 \times 10^{-7} \mu\text{c/ml}$
Co ⁶⁰	$2.4 \times 10^{-7} \pm 1.3 \times 10^{-7} \mu\text{c/ml}$

Note: All results are corrected for isotopic decay to sample "off" time.

/bbm

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4/27/63
PO Jackson/RDS

Pog

DECLASSIFIED

RD-7600-056 (10-62) AEC-GE RICHLAND, WASH

AN-75958-RD		ANALYTICAL REPORT HL RADIOLOGICAL ANALYSIS		-60-
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5885		
SAMPLE DESIGNATION Integrated sample from 100-DR				
SAMPLE SITE				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 12/19, 1020 - 12/26/63, 0920	DATE RECEIVED 12/26/63	DATE COMPLETED		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , Co ⁶⁰				

I ¹³¹	$4.5 \times 10^{-7} \mu\text{c/ml}$
P ³²	$6.7 \times 10^{-6} \mu\text{c/ml}$
Cr ⁵¹	$2.7 \times 10^{-4} \mu\text{c/ml}$
Zn ⁶⁵	$1.1 \times 10^{-5} \mu\text{c/ml}$
Sc ⁴⁶	$9.7 \times 10^{-7} \mu\text{c/ml}$
Co ⁶⁰	$4.4 \times 10^{-7} \mu\text{c/ml}$

Note: All results are corrected for isotopic decay to sample "off" time.

/bbm

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PO Jackson/RDS

Pog

DECLASSIFIED

RD-7800-086 (10-62) REC-GE RICHLAND, WASH

AN-75958-RD		ANALYTICAL REPORT		-61-
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5889		
SAMPLE DESIGNATION Integrated sample from 100-B				
SAMPLE SITE				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 12/26/62, 0855 - 1/2/63, 0955	DATE RECEIVED 1/2/63	DATE COMPLETED		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , Co ⁶⁰				

I ¹³¹	2.4 x 10 ⁻⁷ µc/ml
P ³²	4.4 x 10 ⁻⁶ µc/ml
Cr ⁵¹	2.3 x 10 ⁻⁴ µc/ml
Zn ⁶⁵	2.6 x 10 ⁻⁵ µc/ml
Sc ⁴⁶	3.1 x 10 ⁻⁶ µc/ml
Co ⁶⁰	5.9 x 10 ⁻⁷ µc/ml

Note: All results are corrected for isotopic decay to sample "off" time.

/bbm

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POJ

(AFTER FILL-IN)

DECLASSIFIED

9D-7800-088 (10-62) AEC-GE RICHLAND, WASH

AN-75958-RD		ANALYTICAL REPORT		-62-
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5890		
SAMPLE DESIGNATION Integrated sample from 100-DR				
SAMPLE SITE				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE-TIME SAMPLED 12/26, 0920 - 1/2/63, 1040	DATE RECEIVED 1/2/63	DATE COMPLETED		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , Co ⁶⁰				

I ¹³¹	4.0 x 10 ⁻⁷ µc/ml
P ³²	7.4 x 10 ⁻⁶ µc/ml
Cr ⁵¹	3.3 x 10 ⁻⁶ µc/ml
Zn ⁶⁵	4.6 x 10 ⁻⁶ µc/ml
Sc⁴⁶ Co ⁶⁰	5.2 x 10 ⁻⁷ µc/ml
Co⁶⁰ Sc ⁴⁶	2.3 x 10 ⁻⁷ µc/ml

Note: All results are corrected for isotopic decay to sample "off" time.

/bbm

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(AFTER FILL-IN)

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RD-7800-056 (10-62) AEC-GE RICHLAND, WASH

IIW-75958-RD		ANALYTICAL REPORT		-63-
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5891		
SAMPLE DESIGNATION Integrated water sample from 100-H				
SAMPLE SITE				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 12/26/62, 0935 - 1/2/63, 1100	DATE RECEIVED 1/2/63	DATE COMPLETED		
ANALYSIS DESIRED I^{131} , P^{32} , Zn^{65} , Cr^{51} , Sc^{46} , Co^{60}				

I^{131}	$<8.9 \times 10^{-8} \mu\text{c/ml}$
P^{32}	$1.0 \times 10^{-6} \mu\text{c/ml}$
Cr^{51}	$4.8 \times 10^{-5} \mu\text{c/ml}$
Zn^{65}	$1.6 \times 10^{-5} \mu\text{c/ml}$
Sc^{46}	$1.0 \times 10^{-6} \mu\text{c/ml}$
Co^{60}	$5.0 \times 10^{-7} \mu\text{c/ml}$

Note: All results are corrected for isotopic decay to sample "off" time.

/bbm

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POJ

(AFTER FILL-IN)

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RD-7600-036 (10-62) AEC-GE RICHLAND, WASH.

NW-75958-RD		ANALYTICAL REPORT		-64-
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5892		
SAMPLE DESIGNATION Integrated water sample from 100-F				
SAMPLE SITE				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 12/26/62, 0955 - 1/2/63, 1115	DATE RECEIVED 1/2/63	DATE COMPLETED		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , Co ⁶⁰				

I ¹³¹	$4.7 \times 10^{-7} \mu\text{c/ml}$
P ³²	$5.2 \times 10^{-6} \mu\text{c/ml}$
Cr ⁵¹	$2.6 \times 10^{-4} \mu\text{c/ml}$
Zn ⁶⁵	$1.6 \times 10^{-5} \mu\text{c/ml}$
Sc ⁴⁶	$1.2 \times 10^{-6} \mu\text{c/ml}$
Co ⁶⁰	$6.5 \times 10^{-7} \mu\text{c/ml}$

Note: All results are corrected for isotopic decay to sample "off" time.

/bbm

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RD-7800-058 (10-62) AEC-GE RICHLAND, WASH.

ANALYTICAL REPORT				-65-
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5896		
SAMPLE DESIGNATION Integrated water sample from 100-C				
SAMPLE SITE				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE / TIME SAMPLED 1/2/, 1000 - 1/9/63, 1020		DATE RECEIVED 1/9/63	DATE COMPLETED	
ANALYSIS DESIRED I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , Co^{60}				

I^{131}	$1.0 \times 10^{-7} \pm 5.0 \times 10^{-8} \mu\text{c/ml}$
P^{32}	$1.5 \times 10^{-6} \mu\text{c/ml}$
Cr^{51}	$1.5 \times 10^{-4} \mu\text{c/ml}$
Zn^{65}	$1.1 \times 10^{-5} \mu\text{c/ml}$
Sc^{46}	$8.0 \times 10^{-7} \mu\text{c/ml}$
Co^{60}	$1.3 \times 10^{-7} \mu\text{c/ml}$

Note: All results are corrected for isotopic decay to sample "off" time.

/bbm

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RD-7600-056 (10-62) AEC-GE RICHLAND, WASH

AN-75958-RD				ANALYTICAL REPORT		-66-	
HL RADIOLOGICAL ANALYSIS							
REQUESTOR'S SAMPLE NO.				ANALYSIS NO.			
				5897			
SAMPLE DESIGNATION							
Integrated water sample from 100-H							
SAMPLE SITE							
REQUESTED BY		AREA		BLOG.		PHONE	
R. B. Hall		300		3746		3772	
DATE - TIME SAMPLED		DATE RECEIVED		DATE COMPLETED			
1/2/63, 1100 - 1/9/63, 0920		1-9-63					
ANALYSIS DESIRED							
I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , Co^{60}							

I^{131}	$7.0 \times 10^{-8} \pm 4.7 \times 10^{-8} \mu\text{c/ml}$
P^{32}	$5.4 \times 10^{-7} \mu\text{c/ml}$
Cr^{51}	$4.1 \times 10^{-6} \mu\text{c/ml}$
Zn^{65}	$3.9 \times 10^{-6} \mu\text{c/ml}$
Sc^{46}	$1.6 \times 10^{-7} \mu\text{c/ml}$
Co^{60}	$3.9 \times 10^{-7} \mu\text{c/ml}$

Note: All results are corrected for isotopic decay to sample "off" time.

/bbm

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PO Jackson/RDS

PDG

(AFTER FILL-IN)

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BD-7600-056 (10-62) AEC-GE RICHLAND, WASH.

E7-75958		ANALYTICAL REPORT		-67-
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5989		
SAMPLE DESIGNATION Integrated water sample from 100-B				
SAMPLE SITE 107-B				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 1/2/63, 0955 - 1/9/63, 1015	DATE RECEIVED 1/9/63	DATE COMPLETED		
ANALYSIS DESIRED I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , Co^{60}				

I^{131}	$2.1 \times 10^{-7} \mu\text{c/ml}$
P^{32}	$2.3 \times 10^{-6} \mu\text{c/ml}$
Cr^{51}	$6.7 \times 10^{-5} \mu\text{c/ml}$
Zn^{65}	$1.1 \times 10^{-5} \mu\text{c/ml}$
Sc^{46}	$6.7 \times 10^{-7} \mu\text{c/ml}$
Co^{60}	$2.1 \times 10^{-7} \mu\text{c/ml}$

Note: All results are corrected for isotopic decay to sample "off" time.

/bbm

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PO Jackson/RDS

pyg

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(AFTER FILL-IN)

BD-7600-056 (10-62) AEC-GE RICHLAND, WASH.

ANALYTICAL REPORT			
HL RADIOLOGICAL ANALYSIS			
REQUESTOR'S SAMPLE NO.		ANALYSIS NO.	
		5902	
SAMPLE DESIGNATION			
Integrated sample from 100-DR			
SAMPLE SITE			
107-DR			
REQUESTED BY	AREA	BLDG.	PHONE
R. B. Hall	300	3746	3772
DATE - TIME SAMPLED	DATE RECEIVED	DATE COMPLETED	
1/9/63, 1050 - 1/16/63, 1015	1/16/63		
ANALYSIS DESIRED			
I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , Co ⁶⁰			

I ¹³¹	$3.3 \times 10^{-7} \mu\text{c/ml}$
P ³²	$5.8 \times 10^{-6} \mu\text{c/ml}$
Cr ⁵¹	$2.1 \times 10^{-4} \mu\text{c/ml}$
Zn ⁶⁵	$2.2 \times 10^{-5} \mu\text{c/ml}$
Sc ⁴⁶	$2.7 \times 10^{-6} \mu\text{c/ml}$
Co ⁶⁰	$5.4 \times 10^{-7} \mu\text{c/ml}$

Note: All results are corrected for isotopic decay to sample "off" time.

/bbm

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cc: AP Blunder - File

/bwm

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PO Jackson/HDS

Note: All results are corrected for isotopic decay to sample "off" time.

I ¹³¹	1.7 x 10 ⁻⁷ µc/ml
P ³²	1.7 x 10 ⁻⁷ µc/ml
Cr ⁵¹	1.9 x 10 ⁻⁵ µc/ml
Zn ⁶⁵	1.1 x 10 ⁻⁵ µc/ml
Sc ⁴⁶	9.6 x 10 ⁻⁷ µc/ml
Co ⁶⁰	1.0 x 10 ⁻⁶ µc/ml

ANALYTICAL REPORT	
WD-75958-RD	
HL RADIOLOGICAL ANALYSIS	
-69-	
ANALYSIS NO.	5903
REQUESTOR'S SAMPLE NO.	
SAMPLE DESIGNATION	
Integrated Water Sample from 100-H	
SAMPLE SITE	
107-H	
REQUESTED BY	R. B. Ball
AREA	300
BLDG.	329
PHONE	3772
DATE - TIME SAMPLED	1/9/63, 1020 - 1/16/63, 1040
DATE RECEIVED	1/16/63
DATE COMPLETED	
ANALYSIS DESIRED	
I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , Co ⁶⁰	

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RD-7600-086 (10-62) AEC-GE RICHLAND, WASH.

HW-75958-RD		ANALYTICAL REPORT		-70-
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5904		
SAMPLE DESIGNATION Integrated Water from 100-B				
SAMPLE SITE 107-B				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 329	PHONE 3772	
DATE - TIME SAMPLED 1/9/63, 1015 - 1/16/63, 0930		DATE RECEIVED 1/16/63	DATE COMPLETED	
ANALYSIS DESIRED I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , Co^{60}				

I^{131}	$2.4 \times 10^{-7} \mu\text{c/ml}$
P^{32}	$2.7 \times 10^{-6} \mu\text{c/ml}$
Cr^{51}	$1.6 \times 10^{-4} \mu\text{c/ml}$
Zn^{65}	$1.1 \times 10^{-5} \mu\text{c/ml}$
Sc^{46}	$6.4 \times 10^{-7} \mu\text{c/ml}$
Co^{60}	$1.2 \times 10^{-7} \mu\text{c/ml}$

Note: All results are corrected for isotopic decay to sample "off" time.

/bbm

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BD-7600-056 (10-62) AEC-GE RICHLAND, WASH.

HW-75958-RD		ANALYTICAL REPORT		-71-
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5910		
SAMPLE DESIGNATION Integrated Water Sample from 100-DR				
SAMPLE SITE 100-DR				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 1/16/63, 1015 - 1/23/63, 0950	DATE RECEIVED 1/23/63	DATE COMPLETED		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , Co ⁶⁰				

I ¹³¹	$3.8 \times 10^{-7} \mu\text{c/ml}$
P ³²	$6.8 \times 10^{-6} \mu\text{c/ml}$
Cr ⁵¹	$2.3 \times 10^{-4} \mu\text{c/ml}$
Zn ⁶⁵	$2.4 \times 10^{-5} \mu\text{c/ml}$
Sc ⁴⁶	$3.0 \times 10^{-6} \mu\text{c/ml}$
Co ⁶⁰	$5.4 \times 10^{-7} \mu\text{c/ml}$

Note: All results are corrected for isotopic decay to sample "off" time.

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RD-7600-056 (10-62) AEC-GE RICHLAND, WASH.

ANALYTICAL REPORT			
HW-75958-RD		HL RADIOLOGICAL ANALYSIS	
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5911	
SAMPLE DESIGNATION Integrated Water Sample from 100-H			
SAMPLE SITE 100-H			
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772
DATE - TIME SAMPLED 1/16/63, 1040 - 1/23/63, 0900	DATE RECEIVED 1/23/63	DATE COMPLETED	
ANALYSIS DESIRED I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , Co^{60}			

I^{131}	$9.5 \times 10^{-8} \pm 4.6 \times 10^{-8} \mu\text{c/ml}$
P^{32}	$1.4 \times 10^{-6} \mu\text{c/ml}$
Cr^{51}	$1.6 \times 10^{-5} \mu\text{c/ml}$
Zn^{65}	$8.1 \times 10^{-5} \mu\text{c/ml}$
Sc^{46}	$1.4 \times 10^{-6} \mu\text{c/ml}$
Co^{60}	$6.1 \times 10^{-6} \mu\text{c/ml}$

Note: All results are corrected for isotopic decay to sample "off" time.

/bbm

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PO Jackson/RDS

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SD-7600-086 (10-62) ASC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		-73-	
HL RADIOLOGICAL ANALYSIS					
REQUESTOR'S SAMPLE NO.			ANALYSIS NO. 5912		
SAMPLE DESIGNATION Integrated Water Sample from 100-B					
SAMPLE SITE 107-B					
REQUESTED BY R. B. Hall		AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 1/16/63, 0930 - 1/23/63, 1015		DATE RECEIVED 1/23/63	DATE COMPLETED		
ANALYSIS DESIRED I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , Co^{60}					

I^{131}	$1.0 \times 10^{-7} \pm 4.7 \times 10^{-8} \mu\text{c/ml}$
P^{32}	$2.5 \times 10^{-6} \mu\text{c/ml}$
Cr^{51}	$2.0 \times 10^{-4} \mu\text{c/ml}$
Zn^{65}	$1.2 \times 10^{-5} \mu\text{c/ml}$
Sc^{46}	$1.8 \times 10^{-7} \mu\text{c/ml}$
Co^{60}	$8.1 \times 10^{-7} \mu\text{c/ml}$

Note: All results are corrected for isotopic decay to sample "off" time.

/bbm

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9D-7600-056 (10-62) ASD:GE RICHMOND, WASH

ANALYTICAL REPORT

HW-75958-RD

HL RADIOLOGICAL ANALYSIS

-74-

ANALYSIS NO.

5913

REQUESTOR'S SAMPLE NO.

SAMPLE DESIGNATION
Integrated Water Sample from 100-C

SAMPLE SITE
107-C

REQUESTED BY
R. B. Hall

AREA

300

BLDG.

3746

PHONE

3772

DATE - TIME SAMPLED

1/16/63, 0940 - 1/23/63, 1020

DATE RECEIVED

1/23/63

DATE COMPLETED

ANALYSIS DESIRED

I¹³¹, P³², Z⁶⁵, S⁴⁶, C⁵¹, C⁶⁰

Note: All results are corrected for isotopic decay to sample "off" time.

/bbm

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SD-7800-086 (10-82) AEC-GE RICHLAND, WASH

ANALYTICAL REPORT			
HL RADIOLOGICAL ANALYSIS			
REQUESTOR'S SAMPLE NO.		ANALYSIS NO.	
21-75958-RD		5919	
SAMPLE DESIGNATION			
Integrated Water Sample from 100-B			
SAMPLE SITE			
107-B			
REQUESTED BY	AREA	BLDG.	PHONE
R. B. Hall	300	3746	3772
DATE - TIME SAMPLED	DATE RECEIVED	DATE COMPLETED	
1/23/63, 1015 - 1/30/63, 0935	1/30/63		
ANALYSIS DESIRED			
I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , Co^{60}			

I^{131}	$1.3 \times 10^{-7} \pm 4.6 \times 10^{-8} \mu\text{c/ml}$
P^{32}	$1.2 \times 10^{-6} \mu\text{c/ml}$
Cr^{51}	$9.9 \times 10^{-5} \mu\text{c/ml}$
Zn^{65}	$1.7 \times 10^{-5} \mu\text{c/ml}$
Sc^{46}	$8.8 \times 10^{-7} \mu\text{c/ml}$
Co^{60}	$2.9 \times 10^{-7} \mu\text{c/ml}$

Note: All results are corrected for isotopic decay to sample "off" time.

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RD-7600-086 (10-62) AEC-GE RICHLAND WASH

HM-75958-RD		ANALYTICAL REPORT		-76-
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5920		
SAMPLE DESIGNATION Integrated Water Sample from 100-C				
SAMPLE SITE 107-C				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 1/23/63, 1020 - 1/30/63, 0930	DATE RECEIVED 1/30/63	DATE COMPLETED		
ANALYSIS DESIRED I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , Co^{60}				

I^{131}	$1.3 \times 10^{-7} \pm 4.7 \times 10^{-8} \mu\text{c/ml}$
P^{32}	$2.1 \times 10^{-7} \mu\text{c/ml}$
Cr^{51}	$2.9 \times 10^{-4} \mu\text{c/ml}$
Zn^{65}	$1.4 \times 10^{-5} \mu\text{c/ml}$
Sc^{46}	$6.5 \times 10^{-7} \mu\text{c/ml}$
Co^{60}	$2.9 \times 10^{-8} \mu\text{c/ml}$

Note: All results are corrected for isotopic decay to sample "off" time.

/bbm

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WD-7600-056 (10-62) AEC-GE RICHLAND, WASH

AN-75958-RD		ANALYTICAL REPORT HL RADIOLOGICAL ANALYSIS		-77-
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5921		
SAMPLE DESIGNATION Integrated Water Sample from 100-DR				
SAMPLE SITE 107-DR				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 1/23/63, 0950 - 1/30/63, 1000	DATE RECEIVED 1/30/63	DATE COMPLETED		
ANALYSIS DESIRED I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , Co^{60}				

I^{131}	$9.7 \times 10^{-7} \mu\text{c/ml}$
P^{32}	$4.0 \times 10^{-6} \mu\text{c/ml}$
Cr^{51}	$2.1 \times 10^{-4} \mu\text{c/ml}$
Zn^{65}	$2.4 \times 10^{-5} \mu\text{c/ml}$
Sc^{46}	$1.5 \times 10^{-6} \mu\text{c/ml}$
Co^{60}	$3.2 \times 10^{-7} \mu\text{c/ml}$

Note: All results are corrected for isotopic decay to sample "off" time.

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RD-7600-056 (10-62) REC-GE RICHLAND, WASH.

ANALYTICAL REPORT			
IW-75958-RD		HL RADIOLOGICAL ANALYSIS	
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5930	
SAMPLE DESIGNATION Integrated Water Sample From 100-C			
SAMPLE SITE 107-C			
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772
DATE - TIME SAMPLED 2/6/63, * - 2/13/63, 0900	DATE RECEIVED 2/13/63	DATE COMPLETED	
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , Co ⁶⁰			

I ¹³¹	$1.7 \times 10^{-6} \mu\text{c/ml}$
P ³²	$2.3 \times 10^{-6} \mu\text{c/ml}$
Cr ⁵¹	$\times 10^{-4} \mu\text{c/ml}$
Zn ⁶⁵	$\times 10^{-5} \mu\text{c/ml}$
Sc ⁴⁶	$3.4 \times 10^{-7} \mu\text{c/ml}$
Co ⁶⁰	$3.7 \times 10^{-7} \mu\text{c/ml}$

Note: All results are corrected for isotopic decay to sample "off" time.

* Time unknown, power off.

/bbm

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RD-7600-056 (10-62) AEC-GE RICHLAND, WASH.

AN-75958-RD		ANALYTICAL REPORT		-79-	
HL RADIOLOGICAL ANALYSIS					
REQUESTOR'S SAMPLE NO.			ANALYSIS NO.		
			5931		
SAMPLE DESIGNATION					
Integrated Water Sample from 100-DR					
SAMPLE SITE					
107-DR					
REQUESTED BY		AREA	BLDG.	PHONE	
R. B. Hall		300	3746	3772	
DATE - TIME SAMPLED		DATE RECEIVED		DATE COMPLETED	
2/6/63, 0925 - 2/13/63, 0935		2/13/63			
ANALYSIS DESIRED					
I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , Co ⁶⁰					

I ¹³¹	$6.7 \times 10^{-7} \mu\text{c/ml}$
P ³²	$7.0 \times 10^{-6} \mu\text{c/ml}$
Cr ⁵¹	$3.0 \times 10^{-4} \mu\text{c/ml}$
Zn ⁶⁵	$1.4 \times 10^{-5} \mu\text{c/ml}$
Sc ⁴⁶	$1.6 \times 10^{-6} \mu\text{c/ml}$
Co ⁶⁰	$7.8 \times 10^{-7} \mu\text{c/ml}$

Note: All results are corrected for isotopic decay to sample "off" time.

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208

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BD-7800-056 (10-62) AEC-GE RICHLAND, WASH.

ANALYTICAL REPORT			
HL RADIOLOGICAL ANALYSIS			
REQUESTOR'S SAMPLE NO.		ANALYSIS NO.	
IN-75958-ED		5932	
SAMPLE DESIGNATION			
Integrated Water Sample from 100-F			
SAMPLE SITE			
107-F			
REQUESTED BY	AREA	BLOG.	PHONE
R. B. Hall	300	3746	3772
DATE - TIME SAMPLED	DATE RECEIVED	DATE COMPLETED	
2/6/63, 1320 - 2/13/63, 1005	2/13/63		
ANALYSIS DESIRED			
I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , Co ⁶⁰			

I ¹³¹	$4.1 \times 10^{-7} \mu\text{c/ml}$
P ³²	$2.5 \times 10^{-5} \mu\text{c/ml}$
Cr ⁵¹	$3.4 \times 10^{-4} \mu\text{c/ml}$
Zn ⁶⁵	$2.3 \times 10^{-5} \mu\text{c/ml}$
Sc ⁴⁶	$5.1 \times 10^{-6} \mu\text{c/ml}$
Co ⁶⁰	$6.0 \times 10^{-7} \mu\text{c/ml}$

Note: All results are corrected for isotopic decay to sample "off" time.

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BD-7600-056 (10-62) AEC-GE RICHARD, WASH.

ANALYTICAL REPORT			
HL RADIOLOGICAL ANALYSIS			
EW-75958-RD		-81-	
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5933	
SAMPLE DESIGNATION Integrated Water Sample from 100-H			
SAMPLE SITE 107-H			
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772
DATE - TIME SAMPLED 2/6/63, 0905 - 2/13/63, 0950	DATE RECEIVED 2/13/63	DATE COMPLETED	
ANALYSIS DESIRED I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , Co^{60}			

I^{131}	$<7.3 \times 10^{-8} \mu\text{c/ml}$
P^{32}	$2.7 \times 10^{-7} \mu\text{c/ml}$
Cr^{51}	$2.5 \times 10^{-6} \mu\text{c/ml}$
Zn^{65}	$6.0 \times 10^{-6} \mu\text{c/ml}$
Sc^{46}	$1.5 \times 10^{-7} \mu\text{c/ml}$
Co^{60}	$8.1 \times 10^{-7} \mu\text{c/ml}$

Note: All results are corrected for isotopic decay to sample "off" time.

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SD-7500-056 (10-62) AEC-GE RICHLAND, WASH.

HW-75958-RD		ANALYTICAL REPORT		-82-
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5942		
SAMPLE DESIGNATION				
Integrated Water Sample from 100-B				
SAMPLE SITE				
107-B				
REQUESTED BY		AREA	BLDG.	PHONE
R. B. Hall		300	3746	3772
DATE - TIME SAMPLED		DATE RECEIVED	DATE COMPLETED	
2/13/63, 0905 - 2/20/63, 0915		2/20/63		
ANALYSIS DESIRED		131 32 65 46 51 60 I , P , Zn , Sc , Cr , Co		

I ¹³¹	$1.5 \times 10^{-6} \mu\text{c/ml}$
P ³²	$1.9 \times 10^{-6} \mu\text{c/ml}$
Cr ⁵¹	$2.4 \times 10^{-4} \mu\text{c/ml}$
Zn ⁶⁵	$1.9 \times 10^{-5} \mu\text{c/ml}$
Sc ⁴⁶	$5.2 \times 10^{-7} \mu\text{c/ml}$
Co ⁶⁰	$1.1 \times 10^{-6} \mu\text{c/ml}$

Note: All results are corrected for isotopic decay to sample "off" time.

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BD-7800-056 (10-62) AEC-GE RICHLAND, WASH.

ANALYTICAL REPORT			
HL RADIOLOGICAL ANALYSIS			
HW-75958-RD		-83-	
REQUESTOR'S SAMPLE NO.		ANALYSIS NO.	
SAMPLE DESIGNATION		5943	
Integrated Water Sample from 100-H			
SAMPLE SITE			
107-H			
REQUESTED BY	AREA	BLDG.	PHONE
R. B. Hall	300	3746	3772
DATE - TIME SAMPLED	DATE RECEIVED	DATE COMPLETED	
2/13/63, 0950 - 2/20/63, 1000	2/20/63		
ANALYSIS DESIRED			
I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , Co ⁶⁰			

I ¹³¹	$<1.1 \times 10^{-7} \mu\text{c/ml}$
P ³²	$1.8 \times 10^{-7} \mu\text{c/ml}$
Cr ⁵¹	$1.7 \times 10^{-6} \mu\text{c/ml}$
Zn ⁶⁵	$4.3 \times 10^{-6} \mu\text{c/ml}$
Sc ⁴⁶	$<1.6 \times 10^{-7} \mu\text{c/ml}$
Co ⁶⁰	$6.0 \times 10^{-7} \mu\text{c/ml}$

Note: All results are corrected for isotopic decay to sample "off" time.

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BD-7600-056 (10-62) AEC-GE RICHLAND, WASH.

ANALYTICAL REPORT			
HW-75958-RD		HL RADIOLOGICAL ANALYSIS	
REQUESTOR'S SAMPLE NO.		ANALYSIS NO.	
SAMPLE DESIGNATION		5944	
Integrated Water Sample from 100-F			
SAMPLE SITE			
107-F			
REQUESTED BY	AREA	BLDG.	PHONE
R. B. Hall	300	3746	3772
DATE - TIME SAMPLED	DATE RECEIVED	DATE COMPLETED	
2/13/63, 1005 - 2/20/63, 1020	2/20/63		
ANALYSIS DESIRED			
I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , Co ⁶⁰			

I ¹³¹	$2.5 \times 10^{-7} \mu\text{c/ml}$
P ³²	$1.4 \times 10^{-5} \mu\text{c/ml}$
Cr ⁵¹	$3.6 \times 10^{-4} \mu\text{c/ml}$
Zn ⁶⁵	$5.6 \times 10^{-5} \mu\text{c/ml}$
Sc ⁴⁶	$1.6 \times 10^{-5} \mu\text{c/ml}$
Co ⁶⁰	$1.1 \times 10^{-6} \mu\text{c/ml}$

Note: All results are corrected for isotopic decay to sample "off" time.

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BD-7600-056 (10-62) AEC-GE RICHLAND, WASH.

HW-75958-RD		ANALYTICAL REPORT		-85-
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO.		
		5945		
SAMPLE DESIGNATION				
Integrated Water Sample from 100-C				
SAMPLE SITE				
107-C				
REQUESTED BY	AREA	BLDG.	PHONE	
R. B. Hall	300	3746	3772	
DATE - TIME SAMPLED	DATE RECEIVED	DATE COMPLETED		
2/13/63, 0910 - 2/20/63, 0910	2/20/63			
ANALYSIS DESIRED				
I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , Co ⁶⁰				

I ¹³¹	$7.7 \times 10^{-7} \mu\text{c/ml}$
P ³²	$1.8 \times 10^{-6} \mu\text{c/ml}$
Cr ⁵¹	$3.3 \times 10^{-4} \mu\text{c/ml}$
Zn ⁶⁵	$1.6 \times 10^{-5} \mu\text{c/ml}$
Sc ⁴⁶	$5.7 \times 10^{-7} \mu\text{c/ml}$
Co ⁶⁰	$3.7 \times 10^{-7} \mu\text{c/ml}$

Note: All results are corrected for isotopic decay to sample "off" time.

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BD-7500-056 (10-62) AEC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		-86-
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5946		
SAMPLE DESIGNATION Integrated Water Sample from 100-DR				
SAMPLE SITE 107-DR				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 2/13/63, 0935 - 2/20/63, 0940	DATE RECEIVED 2/20/63	DATE COMPLETED		
ANALYSIS DESIRED I ¹³¹ , P ³² , Cr ⁵¹ , Co ⁶⁰ , Zn ⁶⁵ , Sc ⁴⁶				

I ¹³¹	8.9 x 10 ⁻⁷ µc/ml
P ³²	2.1 x 10 ⁻⁵ µc/ml
Cr ⁵¹	6.6 x 10 ⁻⁴ µc/ml
Zn ⁶⁵	1.9 x 10 ⁻⁴ µc/ml
Sc ⁴⁶	6.0 x 10 ⁻⁵ µc/ml
Co ⁶⁰	6.3 x 10 ⁻⁶ µc/ml

Note: All results are corrected for isotopic decay to sample "off" time

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RD-7800-056 (10-62) AEC-GE RICHLAND, WASH.

ANALYTICAL REPORT				-87-
HW-75958-RD				HL RADIOLOGICAL ANALYSIS
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5956		
SAMPLE DESIGNATION Integrated Water Sample from 100-DR				
SAMPLE SITE 107-DR				
REQUESTED BY R. B. Hall		AREA 300	BLDG. 3746	PHONE 3772
DATE - TIME SAMPLED 2/20/63, 0940 - 2/27/63, 0955		DATE RECEIVED 2/27/63	DATE COMPLETED	
ANALYSIS DESIRED I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , Co^{60}				

I^{131}	$2.3 \times 10^{-7} \mu\text{c/ml}$
P^{32}	$5.3 \times 10^{-6} \mu\text{c/ml}$
Cr^{51}	$7.7 \times 10^{-5} \mu\text{c/ml}$
Zn^{65}	$4.4 \times 10^{-5} \mu\text{c/ml}$
Sc^{46}	$1.3 \times 10^{-5} \mu\text{c/ml}$
Co^{60}	$1.6 \times 10^{-6} \mu\text{c/ml}$

Note: All results are corrected for isotopic decay to sample "off" time.

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RD-7600-056 (10-62) AEC-48 RICHLAND, WASH.

HW-75958-RD		ANALYTICAL REPORT HL RADIOLOGICAL ANALYSIS		-88-
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5957		
SAMPLE DESIGNATION Integrated Water Sample from 100-B				
SAMPLE SITE 107-B				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 2/20/63, 0935 - 2/27/63, 0930	DATE RECEIVED 2/27/63	DATE COMPLETED		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , Co ⁶⁰				

I ¹³¹	2.5 x 10 ⁻⁷ µc/ml
P ³²	2.0 x 10 ⁻⁶ µc/ml
Cr ⁵¹	1.0 x 10 ⁻⁴ µc/ml
Zn ⁶⁵	1.1 x 10 ⁻⁵ µc/ml
Sc ⁴⁶	5.7 x 10 ⁻⁷ µc/ml
Co ⁶⁰	3.4 x 10 ⁻⁷ µc/ml

Note: All results are corrected for isotopic decay to sample "off" time.

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RD-7600-056 (10-62) AEC-GE RICHLAND, WASH.

HW-75958-RD		ANALYTICAL REPORT		-89-	
HL RADIOLOGICAL ANALYSIS					
REQUESTOR'S SAMPLE NO.			ANALYSIS NO.		
			5958		
SAMPLE DESIGNATION					
Integrated Water Sample from 100-H					
SAMPLE SITE					
107-H					
REQUESTED BY		AREA	BLDG.	PHONE	
R. B. Hall		300	3746	3772	
DATE - TIME SAMPLED		DATE RECEIVED		DATE COMPLETED	
2/20/63, 1000 - 2/27/63, 1015		2-27-63			
ANALYSIS DESIRED					
I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , Co ⁶⁰					

I ¹³¹	$<7.7 \times 10^{-8} \mu\text{c/ml}$
P ³²	$1.4 \times 10^{-7} \mu\text{c/ml}$
Cr ⁵¹	$1.5 \times 10^{-6} \mu\text{c/ml}$
Zn ⁶⁵	$3.1 \times 10^{-6} \mu\text{c/ml}$
Sc ⁴⁶	$<7.3 \times 10^{-8} \mu\text{c/ml}$
Co ⁶⁰	$4.8 \times 10^{-7} \mu\text{c/ml}$

Note: All results are corrected for isotopic decay to sample "off" time.

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Pog

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SD-7800-056 (10-62) AEC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		-90-
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5959		
SAMPLE DESIGNATION Integrated Water Sample from 100-C				
SAMPLE SITE 107-C				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 2/20/63, 0910 - 2/27/63, 0925		DATE RECEIVED 2/27/63		DATE COMPLETED
ANALYSIS DESIRED I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , Co^{60}				

I^{131}	$5.9 \times 10^{-7} \mu\text{c/ml}$
P^{32}	$2.5 \times 10^{-6} \mu\text{c/ml}$
Cr^{51}	$2.8 \times 10^{-4} \mu\text{c/ml}$
Zn^{65}	$2.2 \times 10^{-5} \mu\text{c/ml}$
Sc^{46}	$1.0 \times 10^{-6} \mu\text{c/ml}$
Co^{60}	$5.6 \times 10^{-7} \mu\text{c/ml}$

Note: All results are corrected for isotopic decay to sample "off" time.

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RD-7600-056 (10-62) AEC-68 RICHLAND, WASH.

ANALYTICAL REPORT			
EW-75958-RD		HL RADIOLOGICAL ANALYSIS	
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5963	
SAMPLE DESIGNATION Integrated Water Sample from 100-DR			
SAMPLE SITE 107-DR			
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772
DATE - TIME SAMPLED 2/27/63, 0955 - 3/6/63, 1025	DATE RECEIVED 3/6/63	DATE COMPLETED	
ANALYSIS DESIRED I ¹³¹ , p ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , Co ⁶⁰			

I ¹³¹	$1.4 \times 10^{-7} \pm 4.7 \times 10^{-8} \mu\text{c/ml}$
p ³²	$33 \times 10^{-6} \mu\text{c/ml}$
Cr ⁵¹	$6.5 \times 10^{-5} \mu\text{c/ml}$
Zn ⁶⁵	$2.1 \times 10^{-5} \mu\text{c/ml}$
Sc ⁴⁶	$5.3 \times 10^{-6} \mu\text{c/ml}$
Co ⁶⁰	$7.3 \times 10^{-7} \mu\text{c/ml}$

Note: All results are corrected for isotopic decay to sample "off" time.

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2 of 3

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BD-7800-086 (10-62) AEC-GE RICHARD, WASH.

ANALYTICAL REPORT			
HW-75958-RD		HL RADIOLOGICAL ANALYSIS	
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5964	
SAMPLE DESIGNATION Integrated Water Sample from 100-B			
SAMPLE SITE 107-B			
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772
DATE - TIME SAMPLED 2/27/63, 0930 - 3/6/63, 0930	DATE RECEIVED 3/6/63	DATE COMPLETED	
ANALYSIS DESIRED I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , Co^{60}			

I^{131}	$1.2 \times 10^{-7} + 4.6 \times 10^{-8} \mu\text{c/ml}$
P^{32}	$1.9 \times 10^{-6} \mu\text{c/ml}$
Cr^{51}	$2.2 \times 10^{-4} \mu\text{c/ml}$
Zn^{65}	$1.7 \times 10^{-5} \mu\text{c/ml}$
Sc^{46}	$7.7 \times 10^{-7} \mu\text{c/ml}$
Co^{60}	$4.4 \times 10^{-8} \mu\text{c/ml}$

Note: All results are corrected for isotopic decay to sample "off" time.

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SD-7600-056 (10-62) AEC-GE RICHARD, WASH.

ANALYTICAL REPORT			
HW-75958-RD		HL RADIOLOGICAL ANALYSIS	
REQUESTOR'S SAMPLE NO.		ANALYSIS NO.	
		5965	
SAMPLE DESIGNATION			
Integrated Water Sample from 100-C			
SAMPLE SITE			
107-C			
REQUESTED BY	AREA	BLDG.	PHONE
R. B. Hall	300	3746	3772
DATE - TIME SAMPLED	DATE RECEIVED	DATE COMPLETED	
2/27/63, 0925 - 3/6/63, 0925	3/6/63		
ANALYSIS DESIRED			
I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , Co ⁶⁰			

I ¹³¹	$2.0 \times 10^{-7} \mu\text{c/ml}$
P ³²	$2.7 \times 10^{-6} \mu\text{c/ml}$
Cr ⁵¹	$3.3 \times 10^{-4} \mu\text{c/ml}$
Zn ⁶⁵	$2.0 \times 10^{-5} \mu\text{c/ml}$
Sc ⁴⁶	$9.7 \times 10^{-7} \mu\text{c/ml}$
Co ⁶⁰	$4.7 \times 10^{-7} \mu\text{c/ml}$

Note: All results are corrected for isotopic decay to sample "off" time.

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RD-7600-056 (10-62) AEC-GE RICHLAND, WASH.

ANALYTICAL REPORT			
HL RADIOLOGICAL ANALYSIS		-94-	
REQUESTOR'S SAMPLE NO.		ANALYSIS NO.	
IN-75958-RD		5966	
SAMPLE DESIGNATION			
Integrated Water Sample from 100-H			
SAMPLE SITE			
107-H			
REQUESTED BY	AREA	BLDG.	PHONE
R. B. Hall	300	3746	3772
DATE - TIME SAMPLED	DATE RECEIVED	DATE COMPLETED	
2/27/63, 1015 - 3/6/63, 1030	3/6/63		
ANALYSIS DESIRED			
I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , Co ⁶⁰			

I ¹³¹	$9.1 \times 10^{-8} \mu\text{c/ml}$
P ³²	$<1.5 \times 10^{-7} \mu\text{c/ml}$
Cr ⁵¹	$2.3 \times 10^{-6} \mu\text{c/ml}$
Zn ⁶⁵	$3.3 \times 10^{-6} \mu\text{c/ml}$
Sc ⁴⁶	$4.7 \times 10^{-8} \mu\text{c/ml}$
Co ⁶⁰	$4.9 \times 10^{-7} \mu\text{c/ml}$

Note: All results are corrected for isotopic decay to sample "off" time.

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RD-7600-058 (10-62) AEC-GE RICHLAND, WASH.

ANALYTICAL REPORT			
HW-75958-RD		HL RADIOLOGICAL ANALYSIS	
REQUESTOR'S SAMPLE NO.		ANALYSIS NO.	
		5967	
SAMPLE DESIGNATION			
Integrated Water Sample from 100-F			
SAMPLE SITE			
107-F			
REQUESTED BY	AREA	BLDG.	PHONE
R. B. Ball	300	3747	3772
DATE - TIME SAMPLED	DATE RECEIVED	DATE COMPLETED	
2/27/63, 1040 - 3/6/63, 1105	3/6/63		
ANALYSIS DESIRED			
I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , Co ⁶⁰			

I ¹³¹	$1.2 \times 10^{-7} \pm 4.8 \times 10^{-8} \mu\text{c/ml}$
P ³²	$2.1 \times 10^{-7} \mu\text{c/ml}$
Cr ⁵¹	$1.6 \times 10^{-6} \mu\text{c/ml}$
Zn ⁶⁵	$1.8 \times 10^{-6} \mu\text{c/ml}$
Sc ⁴⁶	$2.5 \times 10^{-7} \mu\text{c/ml}$
Co ⁶⁰	$<1.3 \times 10^{-7} \mu\text{c/ml}$

Note: All results are corrected for isotopic decay to sample "off" time.

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RD-7600-056 (10-62) AEC-GE RICHLAND, WASH.

E1-75958-RD		ANALYTICAL REPORT		-96-
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5971		
SAMPLE DESIGNATION Integrated Water Sample from 100-H				
SAMPLE SITE 107-H				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 3/6/63, 1050 - 3/31/63, 1015	DATE RECEIVED 3/13/63	DATE COMPLETED		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , Co ⁶⁰				

I ¹³¹	$5.9 \times 10^{-8} \pm 4.3 \times 10^{-8} \mu\text{c/ml}$
P ³²	$1.8 \times 10^{-7} \mu\text{c/ml}$
Cr ⁵¹	$4.1 \times 10^{-6} \mu\text{c/ml}$
Zn ⁶⁵	$2.5 \times 10^{-6} \mu\text{c/ml}$
Sc ⁴⁶	$1.3 \times 10^{-7} \pm 8.1 \times 10^{-8} \mu\text{c/ml}$
Co ⁶⁰	$3.4 \times 10^{-7} \mu\text{c/ml}$

Note: All results are corrected for isotopic decay to sample "off" time.

/bbm

cc: AP Binder - File

4/27/63
PO Jackson/RDS

pdy

(AFTER FILL-IN)

DECLASSIFIED

BD-7800-056 (10-62) AEC-GE RICHLAND, WASH.

HW-75958-RD		ANALYTICAL REPORT		-97-
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5972		
SAMPLE DESIGNATION Integrated Water Sample from 100-F				
SAMPLE SITE 107-F				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 3/6/63, 1105 - 3/13/63, 1005	DATE RECEIVED 3/13/63	DATE COMPLETED		
ANALYSIS DESIRED I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , Co^{60}				

I^{131}	$<3.6 \times 10^{-8} \mu\text{c/ml}$
P^{32}	$1.1 \times 10^{-7} \pm 7.0 \times 10^{-8} \mu\text{c/ml}$
Cr^{51}	$9.4 \times 10^{-7} \mu\text{c/ml}$
Zn^{65}	$7.7 \times 10^{-7} \mu\text{c/ml}$
Sc^{46}	$1.3 \times 10^{-7} \mu\text{c/ml}$
Co^{60}	$<9.4 \times 10^{-8} \mu\text{c/ml}$

Note: All results are corrected for isotopic decay to sample "off" time.

/bbm

cc: AP Binder - File

4/27/63
PO Jackson/RDS

p08

(AFTER FILL-IN)

DECLASSIFIED

BD-7600-056 (10-62) REC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		-98-
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO.		
		5973		
SAMPLE DESIGNATION				
Integrated Water Sample from 100-DR				
SAMPLE SITE				
107-DR				
REQUESTED BY	AREA	BLDG.	PHONE	
R. B. Hall	300	3746	3772	
DATE - TIME SAMPLED	DATE RECEIVED	DATE COMPLETED		
3/6/63, 1025 - 3/13/63, 0955	3/13/63			
ANALYSIS DESIRED				
I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , Co^{60}				

I^{131}	$3.1 \times 10^{-7} \mu\text{g/ml}$
P^{32}	$3.0 \times 10^{-6} \mu\text{c/ml}$
Cr^{51}	$1.5 \times 10^{-4} \mu\text{c/ml}$
Zn^{65}	$1.3 \times 10^{-5} \mu\text{c/ml}$
Sc^{46}	$2.2 \times 10^{-6} \mu\text{c/ml}$
Co^{60}	$5.3 \times 10^{-7} \mu\text{c/ml}$

Note: All results are corrected for isotopic decay to sample "off" time.

/bbm

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4/27/63

PO Jackson/RDS

pog

DECLASSIFIED

BD-7600-056 (10-62) ARC-GE RICHLAND, WASH.

HW-75958-RD		ANALYTICAL REPORT		-99-
REQUESTOR'S SAMPLE NO.		HL RADIOLOGICAL ANALYSIS		
		ANALYSIS NO. 5974		
SAMPLE DESIGNATION				
Integrated Water Sample from 100-C				
SAMPLE SITE				
107-C				
REQUESTED BY	AREA	BLDG.	PHONE	
R. B. Hall	300	3746	3772	
DATE - TIME SAMPLED	DATE RECEIVED	DATE COMPLETED		
3/6/63, 0930 - 3/13/63, 0930	3/13/63	.		
ANALYSIS DESIRED				
I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , Co^{60}				

I^{131}	$1.5 \times 10^{-7} \pm 4.8 \times 10^{-8} \mu\text{c/ml}$
P^{32}	$3.1 \times 10^{-6} \mu\text{c/ml}$
Cr^{51}	$2.5 \times 10^{-4} \mu\text{c/ml}$
Zn^{65}	$2.3 \times 10^{-5} \mu\text{c/ml}$
Sc^{46}	$9.8 \times 10^{-7} \mu\text{c/ml}$
Co^{60}	$1.2 \times 10^{-7} \mu\text{c/ml}$

Note: All results are corrected for isotopic decay to sample "off" time.

/bbm

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 PO Jackson/RDS

(AFTER FILL-IN)

RD-7600-056 (10-62) AEC-GE RICHLAND, WASH.

HW-75958-RD		ANALYTICAL REPORT HL RADIOLOGICAL ANALYSIS		-100-
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5982		
SAMPLE DESIGNATION Integrated Water Sample from 100-H				
SAMPLE SITE 107-H				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 3/13/63, 1015 - 3/20/63, 0940	DATE RECEIVED 3/20/63	DATE COMPLETED .		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , Co ⁶⁰				

I ¹³¹	$1.2 \times 10^{-7} \pm 5.0 \times 10^{-8} \mu\text{c/ml}$
P ³²	$9.3 \times 10^{-8} \pm 5.7 \times 10^{-8} \mu\text{c/ml}$
Cr ⁵¹	$2.9 \times 10^{-6} \mu\text{c/ml}$
Zn ⁶⁵	$2.3 \times 10^{-6} \mu\text{c/ml}$
Sc ⁴⁶	$< 2.9 \times 10^{-7} \mu\text{c/ml}$
Co ⁶⁰	$3.4 \times 10^{-7} \mu\text{c/ml}$

Note: All results are corrected for isotopic decay to sample "off" time.

/bbm

cc: AP Binder
File

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(AFTER FILL-IN)

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RD-7600-056 (10-62) AEC-GE RICHLAND, WASH.

ANALYTICAL REPORT		-101-	
HL RADIOLOGICAL ANALYSIS			
REQUESTOR'S SAMPLE NO.		ANALYSIS NO.	
		5983	
SAMPLE DESIGNATION			
Integrated Water Sample from 100-F			
SAMPLE SITE			
107-F			
REQUESTED BY	AREA	BLDG.	PHONE
R. B. Hall	300	3746	3772
DATE - TIME SAMPLED	DATE RECEIVED	DATE COMPLETED	
3/13/63, 1035 - 3/20/63, 1005	3/20/63		
ANALYSIS DESIRED			
I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , Co ⁶⁰			

I ¹³¹	$< 6.9 \times 10^{-8} \mu\text{c/ml}$
P ³²	$7.3 \times 10^{-8} \pm 5.3 \times 10^{-8} \mu\text{c/ml}$
Cr ⁵¹	$9.0 \times 10^{-7} \mu\text{c/ml}$
Zn ⁶⁵	$5.6 \times 10^{-7} \mu\text{c/ml}$
Sc ⁴⁶	$1.2 \times 10^{-7} \pm 6.5 \times 10^{-8} \mu\text{c/ml}$
Co ⁶⁰	$< 5.0 \times 10^{-8} \mu\text{c/ml}$

Note: All results are corrected for isotopic decay to sample "off" time.

/bbm

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PO Jackson/RDS

Pog

(AFTER FILL-IN)

DECLASSIFIED

BD-7800-056 (10-62) AEC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		-102-
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 5984		
SAMPLE DESIGNATION Integrated Water Sample from 100-DR				
SAMPLE SITE 107-DR				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 3/13/63, 0955 - 3/20/63, 0925	DATE RECEIVED 3/20/63	DATE COMPLETED .		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , Co ⁶⁰				

I ¹³¹	$3.6 \times 10^{-7} \mu\text{c/ml}$
P ³²	$2.6 \times 10^{-6} \mu\text{c/ml}$
Cr ⁵¹	$1.7 \times 10^{-4} \mu\text{c/ml}$
Zn ⁶⁵	$1.4 \times 10^{-5} \mu\text{c/ml}$
Sc ⁴⁶	$1.6 \times 10^{-6} \mu\text{c/ml}$
Co ⁶⁰	$5.2 \times 10^{-7} \mu\text{c/ml}$

Note: All results are corrected for isotopic decay to sample "off" time.

/bbm

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PO Jackson/RDS

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(AFTER FILL-IN)

RD-7600-056 (10-62) REC-GE RICHMOND WASH

ANALYTICAL REPORT

HW-75958-RD

-103-

ANALYSIS NO.

5985

REQUESTOR'S SAMPLE NO.

Integrated Water Sample from 100-C

SAMPLE DESIGNATION

SAMPLE SITE
107-C

REQUESTED BY
R. B. Hall

AREA

300

BLDG.

3746

PHONE

3772

DATE - TIME SAMPLED
3/13/63, 0930 - 3/20/63, 0930

DATE RECEIVED
3/20/63

DATE COMPLETED

ANALYSIS DESIRED

I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , Co^{60}

I^{131}	2.9×10^{-6} μ C/ml
P^{32}	2.1×10^{-4} μ C/ml
Cr^{51}	2.4×10^{-5} μ C/ml
Zn^{65}	9.8×10^{-7} μ C/ml
Sc^{46}	2.9×10^{-7} μ C/ml
Co^{60}	$1.8 \times 10^{-7} \pm 5.4 \times 10^{-8}$ μ C/ml

Note: All results are corrected for isotopic decay to sample "off" time.

/bdu

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PO Jackson/RDS

(AFTER FILL-IN)

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SD-7500-056 (10-62) AEC-GE RICHLAND, WASH.

ANALYTICAL REPORT			
HW-75958-RD		HL RADIOLOGICAL ANALYSIS	
REQUESTOR'S SAMPLE NO.		ANALYSIS NO.	
		5995	
SAMPLE DESIGNATION			
Integrated Water Sample from 100-F			
SAMPLE SITE			
107-F			
REQUESTED BY	AREA	BLDG.	PHONE
R. B. Hall	300	3746	3772
DATE - TIME SAMPLED	DATE RECEIVED	DATE COMPLETED	
3/20/63, 1005 - 3/27/63, 0840	3/27/63		
ANALYSIS DESIRED			
I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , Co^{60}			

I^{131}	$<3.9 \times 10^{-8} \mu\text{c/ml}$
P^{32}	$<1.5 \times 10^{-7} \mu\text{c/ml}$
Cr^{51}	$6.3 \times 10^{-7} \mu\text{c/ml}$
Zn^{65}	$3.2 \times 10^{-7} \mu\text{c/ml}$
Sc^{46}	$1.7 \times 10^{-7} \mu\text{c/ml}$
Co^{60}	$<1.1 \times 10^{-7} \mu\text{c/ml}$

Note: All results are corrected for isotopic decay to sample "off" time.

/bbm

cc: AP Binder - File

4/27/63
PO Jackson/RDS

POJ

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(AFTER FILL-IN)

9D-7600-056 (10-62) AEC-GE RICHLAND, WASH.

ANALYTICAL REPORT		-105-	
HW-75958-RD		HL RADIOLOGICAL ANALYSIS	
REQUESTOR'S SAMPLE NO.		ANALYSIS NO.	
		5996	
SAMPLE DESIGNATION			
Integrated Water Sample from 100-H			
SAMPLE SITE			
107-H			
REQUESTED BY	AREA	BLDG.	PHONE
R. B. Hall	300	3746	3772
DATE - TIME SAMPLED	DATE RECEIVED	DATE COMPLETED	
3/20/63, 0940 - 3/27/63, 0900	3/27/63		
ANALYSIS DESIRED			
I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , Co ⁶⁰			

I ¹³¹	$1.0 \times 10^{-7} \pm 4.6 \times 10^{-8} \mu\text{c/ml}$
P ³²	$1.7 \times 10^{-7} \mu\text{c/ml}$
Cr ⁵¹	$2.1 \times 10^{-6} \mu\text{c/ml}$
Zn ⁶⁵	$8.5 \times 10^{-7} \mu\text{c/ml}$
Sc ⁴⁶	$5.4 \times 10^{-7} \mu\text{c/ml}$
Co ⁶⁰	$<3.6 \times 10^{-7} \mu\text{c/ml}$

Note: All results are corrected for isotopic decay to sample "off" time.

/bbm

cc: AP Binder - File

4/27/63
PO Jackson/RDS

Pog

(AFTER FILL-IN)

DECLASSIFIED

BD-7800-056 (10-62) AEC-GE RICHLAND WASH

HW-75958-RD		ANALYTICAL REPORT		-106-
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO.		
		5997		
SAMPLE DESIGNATION				
Integrated Water Sample from 100-DR				
SAMPLE SITE				
107-DR				
REQUESTED BY	AREA	BLDG.	PHONE	
R. B. Hall	300	3746	3772	
DATE - TIME SAMPLED	DATE RECEIVED	DATE COMPLETED		
3/20/63, 0925 - 3/27/63, 0915	3/27/63			
ANALYSIS DESIRED				
I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , Co ⁶⁰				

I ¹³¹	$6.2 \times 10^{-7} \mu\text{c/ml}$
P ³²	$3.1 \times 10^{-6} \mu\text{c/ml}$
Cr ⁵¹	$1.9 \times 10^{-4} \mu\text{c/ml}$
Zn ⁶⁵	$2.0 \times 10^{-5} \mu\text{c/ml}$
Sc ⁴⁶	$1.4 \times 10^{-6} \mu\text{c/ml}$
Co ⁶⁰	$3.1 \times 10^{-7} \mu\text{c/ml}$

Note: All results are corrected for isotopic decay to sample "off" time.

/bbm

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4/2/63
PO Jackson/RDS

poj

(AFTER FILL-IN)

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BD-7600-056.1 (9-63) AEC-GK RICHLAND WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 107
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6001		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- DR AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 3/27-4/3/63 0915/0950	DATE RECEIVED 4/3/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

μC/ML

I ¹³¹	8.0 x 10 ⁻⁷
P ³²	1.9 x 10 ⁻⁶
Zn ⁶⁵	1.6 x 10 ⁻⁵
Sc ⁴⁶	1.0 x 10 ⁻⁶
Cr ⁵¹	1.6 x 10 ⁻⁴
Co ⁶⁰	7.0 x 10⁻⁷ 2.3 x 10 ⁻⁵

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

CC: AP BINDER - FILE

PO Jackson/RDS
10-18-63

GROUP I
EXCLUDED FROM AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

(AFTER FILL-IN)

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BD-7600-056.1 (9-63) REC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 108
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6002		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- H AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 3/27-4/3/63 0900-0920	DATE RECEIVED 4/3/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , and Co^{60}				

$\mu\text{C}/\text{ML}$

I^{131}	1.7×10^{-6}
P^{32}	1.6×10^{-7}
Zn^{65}	1.9×10^{-6}
Sc^{46}	$<2.2 \times 10^{-7}$
Cr^{51}	6.3×10^{-6}
Co^{60}	$<4.1 \times 10^{-7}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

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BD-7600-056, I (9-63) ARC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 109
REQUESTOR'S SAMPLE NO.		HL RADIOLOGICAL ANALYSIS		
SAMPLE DESIGNATION		ANALYSIS NO. 6003		
INTEGRATED EFFLUENT WATER				
SAMPLE SITE				
107 BASIN, 100- F AREA				
REQUESTED BY	AREA	BLDG.	PHONE	
R. H. Hall	300	3746	3772	
DATE - TIME SAMPLED	DATE RECEIVED	DATE COMPLETED		
3/27-4/3/63 0840-0900	4/3/63	10/18/63		
ANALYSIS DESIRED				
I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

μC/ML

I ¹³¹	$<4.3 \times 10^{-8}$
P ³²	4.1×10^{-8}
Zn ⁶⁵	3.1×10^{-7}
Sc ⁴⁶	$<1.1 \times 10^{-7}$
Cr ⁵¹	6.2×10^{-7}
Co ⁶⁰	$<1.7 \times 10^{-8}$

NOTE (I) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

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BD-7600-056.1 (9-63) AEC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE <u>110</u>
REQUESTOR'S SAMPLE NO.		HL RADIOLOGICAL ANALYSIS		
		ANALYSIS NO. <u>6011</u>		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- <u>C</u> AREA				
REQUESTED BY <u>R. B. Hall</u>	AREA <u>300</u>	BLDG. <u>3746</u>	PHONE <u>3772</u>	
DATE - TIME SAMPLED <u>4/3-4/10/63 1030-1020</u>	DATE RECEIVED <u>4/10/63</u>	DATE COMPLETED <u>10/18/63</u>		
ANALYSIS DESIRED <u>I¹³¹, P³², Zn⁶⁵, Sc⁴⁶, Cr⁵¹, and Co⁶⁰</u>				

μc/ML

I ¹³¹	1.1×10^{-7}
P ³²	1.5×10^{-6}
Zn ⁶⁵	1.3×10^{-5}
Sc ⁴⁶	7.0×10^{-7}
Cr ⁵¹	1.3×10^{-4}
Co ⁶⁰	2.0×10^{-7}

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

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BD-7600-056.1 (9-63) AEC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE <u>111</u>
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. <u>6012</u>		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- <u>DR</u> AREA				
REQUESTED BY <u>R. B. Hall</u>	AREA <u>300</u>	BLDG. <u>3746</u>	PHONE <u>3772</u>	
DATE - TIME SAMPLED <u>4/3-4/10/63 0950-0940</u>	DATE RECEIVED <u>4/10/63</u>	DATE COMPLETED <u>10/18/63</u>		
ANALYSIS DESIRED <u>I¹³¹, p³², Zn⁶⁵, Sc⁴⁶, Cr⁵¹, and Co⁶⁰</u>				

μC/ML

I ¹³¹	5.2×10^{-7}
p ³²	3.8×10^{-6}
Zn ⁶⁵	1.7×10^{-5}
Sc ⁴⁶	$<1.7 \times 10^{-6}$
Cr ⁵¹	1.9×10^{-4}
Co ⁶⁰	$<6.2 \times 10^{-7}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

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BD-7600-056.1 (9-63) AEC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 112
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6013		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- F AREA				
REQUESTED BY R. B. Ball	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 4/3 - 4/10/63 0900-0845	DATE RECEIVED 4/10/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I ¹³¹ , p ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

μc/mL

I ¹³¹	$<5.0 \times 10^{-8}$
p ³²	$<3.5 \times 10^{-8}$
Zn ⁶⁵	3.3×10^{-7}
Sc ⁴⁶	$<1.1 \times 10^{-7}$
Cr ⁵¹	5.3×10^{-7}
Co ⁶⁰	$<5.0 \times 10^{-7}$ $<5 \times 10^{-7}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

CC: AP BINDER - FILE

PO Jackson/RDS
10-18-63

GROUP 1
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AND DECLASSIFICATION

(AFTER FILL-IN)

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BD-7600-056.1 (9-63) AEC-GE RICHLAND WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 113
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6020		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- F AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 4/10-4/17/63 1200* - 0845	DATE RECEIVED 4/17/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

μC/ML

I ¹³¹	$<4.7 \times 10^{-8}$
P ³²	$<3.5 \times 10^{-8}$
Zn ⁶⁵	2.8×10^{-7}
Sc ⁴⁶	$<7.3 \times 10^{-8}$
Cr ⁵¹	$<1.3 \times 10^{-6}$
Co ⁶⁰	$<6.7 \times 10^{-8}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

* The time of 1200 was assumed due to incomplete request for analysis form.

/bbm

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10-18-63

GROUP 1
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(AFTER FILL-IN)

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BD-7600-056.1 (9-63) AEC-GE RICHLAND WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 114
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6021		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- DR AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 4/10-4/17/63 1200* - 0930	DATE RECEIVED 4/17/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μC/ML</u>
I ¹³¹	4.8×10^{-7}
P ³²	3.6×10^{-6}
Zn ⁶⁵	1.7×10^{-5}
Sc ⁴⁶	2.0×10^{-6}
Cr ⁵¹	1.7×10^{-4}
Co ⁶⁰	$< 6.8 \times 10^{-7}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

* The time of 1200 was assumed due to incomplete request for analysis form.

/bbm

CC: AP BINDER - FILE

PO Jackson/RDS
10-18-63

GROUP 1
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AND DECLASSIFICATION

(AFTER FILL-IN)

DECLASSIFIED

BD-7600-056.1 (9-63) REC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 115
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6022		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- C AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 4/10-4/17/63 1200*-1020	DATE RECEIVED 4/17/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

μC/ML

I ¹³¹	1.6×10^{-7}
P ³²	1.9×10^{-6}
Zn ⁶⁵	2.0×10^{-5}
Sc ⁴⁶	8.0×10^{-7}
Cr ⁵¹	3.0×10^{-4}
Co ⁶⁰	$< 1.7 \times 10^{-7}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

* The time of 1200 was assumed due to incomplete request for analysis form.

/bbm

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PO Jackson/RDS
10-18-63

GROUP 1
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AND DECLASSIFICATION

(AFTER FILL-IN)

BD-7600-056.1 (9-63) AEC-GE RICHLAND, WASH.

HW-75958-RD		ANALYTICAL REPORT		PAGE 116
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6023		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- B AREA				
REQUESTED BY R. B. Ball	AREA 300	BLDG. 3746	PHONE 3772	
DATE TIME SAMPLED 4/10-4/17/63 1200*-1015	DATE RECEIVED 4/17/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μC/ML</u>
I ¹³¹	1.8×10^{-6}
P ³²	3.5×10^{-6}
Zn ⁶⁵	2.6×10^{-5}
Sc ⁴⁶	3.3×10^{-6}
Cr ⁵¹	1.3×10^{-4}
Co ⁶⁰	4.0×10^{-7}

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

* The time of 1200 was assumed due to incomplete request for analysis form.

/bbm

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PO Jackson/RDS
10-18-63

GROUP 1
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AND DECLASSIFICATION

DECLASSIFIED

(AFTER FILL-IN)

BD-7600-056.1 (9-63) AEC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 117
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6024		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- <u>H</u> AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 4/10-4/17/63 1200*-0910	DATE RECEIVED 4/17/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

μC/MLI¹³¹ 6.6 x 10⁻⁷P³² 1.2 x 10⁻⁷Zn⁶⁵ 1.7 x 10⁻⁶Sc⁴⁶ ~~5.8 x 10⁻⁸~~ *OK*Cr⁵¹ 2.6 x 10⁻⁶Co⁶⁰ 1.9 x 10⁻⁷

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME
OF INTEGRATION PERIOD.

* The time of 1200 was assumed due to incomplete request for analysis form.

/bbm

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GROUP 1
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AND DECLASSIFICATION

DECLASSIFIED

(AFTER FILL-IN)

BD-7600-056.1 (9-63) AEC-GE RICHLAND, WASH.

HW-75958-RD		ANALYTICAL REPORT		PAGE <u>118</u>
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. <u>6031</u>		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- <u>DR</u> AREA				
REQUESTED BY <u>R. B. Hall</u>	AREA <u>300</u>	BLDG. <u>3746</u>	PHONE <u>3772</u>	
DATE - TIME SAMPLED <u>4/17-4/24/63 0930-1010</u>	DATE RECEIVED <u>4/24/63</u>	DATE COMPLETED <u>10/18/63</u>		
ANALYSIS DESIRED <u>I¹³¹, P³², Zn⁶⁵, Sc⁴⁶, Cr⁵¹, and Co⁶⁰</u>				

μC/ML

I ¹³¹	3.6×10^{-7}
P ³²	5.3×10^{-6}
Zn ⁶⁵	4.4×10^{-5}
Sc ⁴⁶	5.9×10^{-6}
Cr ⁵¹	2.0×10^{-4}
Co ⁶⁰	4.3×10^{-7}

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME
OF INTEGRATION PERIOD.

/bbm

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AND DECLASSIFICATION

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SD-7600-056, I (9-63) AEC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 119
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6032		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- B AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 4/17-4/24/63 1015-0930	DATE RECEIVED 4/24/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

μC/ML

I ¹³¹	3.6×10^{-6}
P ³²	1.4×10^{-6}
Zn ⁶⁵	3.2×10^{-5}
Sc ⁴⁶	1.2×10^{-6}
Cr ⁵¹	3.5×10^{-5}
Co ⁶⁰	6.4×10^{-7}

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

CC: AP BINDER - FILE

PO Jackson/RDS
10-18-63

GROUP I
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AND DECLASSIFICATION

(AFTER FILL-IN)

DECLASSIFIED

BD-7600-056.1 (9-63) AEC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 120
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6033		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- F AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 4/17-4/24/63 0845/1045	DATE RECEIVED 4/24/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	$\mu\text{C}/\text{ML}$
I ¹³¹	$<3.9 \times 10^{-8}$
P ³²	$<2.0 \times 10^{-8}$
Zn ⁶⁵	1.5×10^{-6}
Sc ⁴⁶	$<5.8 \times 10^{-8}$ $<4.6 \times 10^{-7}$
Cr ⁵¹	3.1×10^{-6}
Co ⁶⁰	$<4.2 \times 10^{-7}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

CC: AP BINDER - FILE

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10-18-63

GROUP I
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AND DECLASSIFICATION

DECLASSIFIED

(AFTER FILL-IN)

BD-7600-056.1 (9-63) AEC-GE RICHLAND WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE <u>121</u>
REQUESTOR'S SAMPLE NO.		HL RADIOLOGICAL ANALYSIS		
		ANALYSIS NO. <u>6034</u>		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- <u>H</u> AREA				
REQUESTED BY <u>R. B. Hall</u>	AREA <u>300</u>	BLDG. <u>3746</u>	PHONE <u>3772</u>	
DATE - TIME SAMPLED <u>4-17/4-24-63 0910-1030</u>	DATE RECEIVED <u>4/24/63</u>	DATE COMPLETED <u>10/18/63</u>		
ANALYSIS DESIRED <u>I¹³¹, P³², Zn⁶⁵, Sc⁴⁶, Cr⁵¹, and Co⁶⁰</u>				

μC/MLI¹³¹ 2.9 x 10⁻⁷P³² 1.5 x 10⁻⁷Sc⁴⁶ 1.4 x 10⁻⁷Sc⁴⁶ <8.7 x 10⁻⁸Cr⁵¹ 1.4 x 10⁻⁷Co⁶⁰ ~~<2.1 x 10⁻⁸~~ *MC* ~~<2.1 x 10⁻⁸~~

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

CC: AP BINDER - FILE

PO Jackson/RDS
10-18-63

GROUP I
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AND DECLASSIFICATION

(AFTER FILL-IN)

DECLASSIFIED

BD-7600-056, I (9-63) AEC-DE RICHLAND WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 122
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6040		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- F AREA				
REQUESTED BY R. B. Fall		AREA 300	BLDG 3746	PHONE 3772
DATE - TIME SAMPLED 4/24-5/1/63 1045/0840		DATE RECEIVED 5/1/63	DATE COMPLETED 10/18/63	
ANALYSIS DESIRED I ¹³¹ , p ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μc/ML</u>
I ¹³¹	$<2.7 \times 10^{-3}$
p ³²	$<2.2 \times 10^{-3}$
Zn ⁶⁵	1.8×10^{-3}
Sc ⁴⁶	$<8.9 \times 10^{-3}$
Cr ⁵¹	9.8×10^{-3}
Co ⁶⁰	$<6.2 \times 10^{-3}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

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PO Jackson/RDS
10-18-63

GROUP I
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AND DECLASSIFICATION

(AFTER FILL-IN)

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BD-7600-056.1 (9-63) AEC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 123
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6041		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- H AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 4/24 - 5/1/63 1030/0900	DATE RECEIVED 5/1/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

μc/ML

I ¹³¹	1.3×10^{-7}
P ³²	6.3×10^{-7}
Zn ⁶⁵	4.9×10^{-6}
Sc ⁴⁶	1.1×10^{-6}
Cr ⁵¹	1.7×10^{-5}
Co ⁶⁰	3.0×10^{-7}

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

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PO Jackson/RDS
10-18-63

GROUP I
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AND DECLASSIFICATION

(AFTER FILL-IN)

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BD-7600-056.1 (9-63) AEC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE <u>124</u>
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. <u>6042</u>		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- <u>B</u> AREA				
REQUESTED BY <u>R. B. Hall</u>	AREA <u>300</u>	BLDG. <u>3746</u>	PHONE <u>3772</u>	
DATE - TIME SAMPLED <u>4/24-5/1/63 0930/1015</u>		DATE RECEIVED <u>5/1/63</u>		DATE COMPLETED <u>10/18/63</u>
ANALYSIS DESIRED <u>I¹³¹, P³², Zn⁶⁵, Sc⁴⁶, Cr⁵¹, and Co⁶⁰</u>				

μC/ML

I ¹³¹	7.7×10^{-7}
P ³²	2.2×10^{-5}
Zn ⁶⁵	1.4×10^{-5}
Sc ⁴⁶	8.4×10^{-7}
Cr ⁵¹	4.2×10^{-5}
Co ⁶⁰	7.2×10^{-7}

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

CC: AP BINDER - FILE

PO Jackson/RDS
10-18-63

GROUP I
EXCLUDED FROM AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

(AFTER FILL-IN)

DECLASSIFIED

BD-7600-056.1 (9-63) ARC-08 RICHLAND, WASH.

HW-75958-RD		ANALYTICAL REPORT		PAGE 125
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6043		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- C AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 4/24/-5/1/63 0925/1010	DATE RECEIVED 5/1/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , and Co^{60}				

$\mu\text{C}/\text{ML}$

I^{131}	2.1×10^{-7}
P^{32}	3.0×10^{-6}
Zn^{65}	2.2×10^{-5}
Sc^{46}	6.2×10^{-7}
Cr^{51}	4.4×10^{-4}
Co^{60}	1.1×10^{-7}

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

CC: AP BINDER - FILE

PO Jackson/RDS
10-18-63

GROUP I
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AND DECLASSIFICATION

(AFTER FILL-IN)

DECLASSIFIED

BD-7600-056.1 (9-63) ARC-GE RICHLAND WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 126
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6044		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- DR AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG 3746	PHONE 3772	
DATE - TIME SAMPLED 4/24-5/1/63 1010/0935	DATE RECEIVED 5/1/63	DATE COMPLETED 10/13/63		
ANALYSIS DESIRED I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , and Co^{60}				

	$\mu\text{C}/\text{ML}$
I^{131}	3.9×10^{-7}
P^{32}	4.1×10^{-6}
Zn^{65}	2.8×10^{-5}
Sc^{46}	3.7×10^{-6}
Cr^{51}	1.7×10^{-4}
Co^{60}	3.7×10^{-7}

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

CC: AP BINDER - FILE

PO Jackson/RDS
10-18-63

GROUP I
EXCLUDED FROM AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

(AFTER FILL-IN)

DECLASSIFIED

BD-7600-056.1 (9-63) AEC-DE RICHLAND WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 127
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6050		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- C AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 5/1-5/8/63 1200*/1200*	DATE RECEIVED 5/8/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , and Co^{60}				

μC/ML

I^{131}	5.8×10^{-7}
P^{32}	4.5×10^{-6}
Zn^{65}	3.1×10^{-5}
Sc^{46}	1.7×10^{-6}
Cr^{51}	5.5×10^{-4}
Co^{60}	7.6×10^{-7}

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

* The time of 1200 ^{was} assumed due to incomplete request for analysis form.

/bbm

CC: AP BINDER - FILE

PO Jackson/RDE
10-18-63

GROUP 1
EXCLUDED FROM AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

(AFTER FILL-IN)

DECLASSIFIED

BD-7600-056.1 (9-63) AEC-GE RICHLAND WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 128
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6051		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- DR AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 5/1-5/8/63 1200*/1200*	DATE RECIEVED 5/8/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

μC/ML

I ¹³¹	3.8×10^{-7}
P ³²	3.6×10^{-6}
Zn ⁶⁵	2.2×10^{-5}
Sc ⁴⁶	2.0×10^{-6}
Cr ⁵¹	1.5×10^{-4}
Co ⁶⁰	1.6×10^{-6}

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

* The time of 1200 ¹²⁴² was assumed due to incomplete request for analysis form.

/bbm

CC: AP BINDER - FILE

PO Jackson/RDS
10-18-63

GROUP I
EXCLUDED FROM AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

(AFTER FILL-IN)

DECLASSIFIED

BD-7600-056.1 (9-63) ARC-GE RICHLAND WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE <u>129</u>
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6052		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- <u>F</u> AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 5/1-5/8/63 1200 " 1200*	DATE RECEIVED 5/8/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , and Co^{60}				

μc/mL

I^{131}	$<2.8 \times 10^{-8}$
P^{32}	$<3.4 \times 10^{-8}$
Zn^{65}	2.0×10^{-7}
Sc^{46}	$<8.5 \times 10^{-8}$
Cr^{51}	$<4.4 \times 10^{-7}$
Co^{60}	$<6.2 \times 10^{-8}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

* The time of 1200 was assumed due to incomplete request for analysis form.

/bbm

CC: AP BINDER - FILE

PO Jackson/RDS
10-18-63

GROUP I
EXCLUDED FROM AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

(AFTER FILL-IN)

DECLASSIFIED

SD-7600-056.1 (9-63) AEC-68 RICHLAND WASH.

HW-75958-RD		ANALYTICAL REPORT		PAGE 130
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6053		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- <u>H</u> AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 5/1-5/8/63 1200*/1200*	DATE RECEIVED 5/8/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , and Co^{60}				

$\mu\text{C}/\text{ML}$

I^{131}	$<7.6 \times 10^{-8}$
P^{32}	1.2×10^{-6}
Zn^{65}	5.8×10^{-6}
Sc^{46}	2.1×10^{-6}
Cr^{51}	2.2×10^{-5}
Co^{60}	$<6.6 \times 10^{-7}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

* The time, 1200, ^{with} was assumed due to incomplete request for analysis form.

/bbm

CC: AP BINDER - FILE

PO Jackson/RDS

GROUP 1
EXCLUDED FROM AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

(AFTER FILL-IN)

DECLASSIFIED

BD-7600-056.1 (9-63) AEC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 131
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6054		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- B AREA				
REQUESTED BY R. B. Ball	AREA 300	BLDG. 3746	PHONE 372	
DATE - TIME SAMPLED 5/1-5/8/63 1200*/1200*	DATE RECEIVED 5/8/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

μc/mL

I ¹³¹	3.3×10^{-7}
P ³²	1.8×10^{-6}
Zn ⁶⁵	1.3×10^{-5}
Sc ⁴⁶	1.3×10^{-6} + 8.6×10^{-7}
Cr ⁵¹	3.8×10^{-5}
Co ⁶⁰	6.8×10^{-7}

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

* The time, 1200, ^{was} ~~was~~ assumed due to incomplete request for analysis form.

/bbm

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PO Jackson/RDS

GROUP I
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AND DECLASSIFICATION

(AFTER FILL-IN)

DECLASSIFIED

BD-7600-056.1 (9-63) AEC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 132
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6058		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- DR AREA				
REQUESTED BY R. B. Ball	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 5/8-5/15/63 1010/0945	DATE RECEIVED 5/15/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μc/mL</u>
I ¹³¹	6.4 x 10 ⁻⁷
P ³²	3.4 x 10 ⁻⁶
Zn ⁶⁵	1.9 x 10 ⁻⁵
Sc ⁴⁶	1.4 x 10 ⁻⁶
Cr ⁵¹	1.4 x 10 ⁻⁴
Co ⁶⁰	6.0 x 10⁻⁷ OK

OK

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

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(AFTER FILL-IN)

DECLASSIFIED

BD-7600-056, I (9-63) AEC-GE RICHLAND, WASH.

HW-75958-RD		ANALYTICAL REPORT		PAGE 133
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6059		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- B AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 5/8-5/15/63 0945/1025	DATE RECEIVED 5/15/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , and Co^{60}				

	$\mu\text{C}/\text{ML}$
I^{131}	2.6×10^{-7}
P^{32}	2.4×10^{-6}
Zn^{65}	1.3×10^{-5}
Sc^{46}	6.6×10^{-7}
Cr^{51}	4.6×10^{-5}
Co^{60}	$<5.3 \times 10^{-7}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

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BD-7600-056.1 (9-63) AEC-GE RICHLAND WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 134
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6060		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- <u>H</u> AREA				
REQUESTED BY R. B. Ball	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 5/8-5/15/63 1030/0915	DATE RECEIVED 5/15/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , and Co^{60}				

$\mu\text{C}/\text{ML}$

I^{131}	$7.2 \times 10^{-8} \pm 3.7 \times 10^{-8}$
P^{32}	2.1×10^{-7}
Zn^{65}	6.8×10^{-6}
Sc^{46}	2.9×10^{-7}
Cr^{51}	3.4×10^{-6}
Co^{60}	6.3×10^{-7}

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

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BD-7600-056.1 (9-63) AEC-GE RICHLAND, WASH.

HW-75958-RD		ANALYTICAL REPORT		PAGE 135
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6061		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- F AREA				
REQUESTED BY R. B. Ball	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 5/8-5/15/63 1150/0850	DATE RECEIVED 5/15/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μC/ML</u>
I ¹³¹	$<6.2 \times 10^{-8}$
P ³²	$<1.8 \times 10^{-6}$
Zn ⁶⁵	$<6.2 \times 10^{-7}$
Sc ⁴⁶	$<8.5 \times 10^{-8}$
Cr ⁵¹	$<1.5 \times 10^{-6}$
Co ⁶⁰	$<5.0 \times 10^{-7}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

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BD-7600-056.1 (9-63) AEC-GE RICHLAND WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 136
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6062		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- C AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 5/8-5/15/63 0940/1015	DATE RECEIVED 5/15/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , and Co^{60}				

	$\mu\text{C}/\text{ML}$
I^{131}	4.8×10^{-7}
P^{32}	4.1×10^{-6}
Zn^{65}	2.3×10^{-5}
Sc^{46}	7.9×10^{-7}
Cr^{51}	3.5×10^{-4}
Co^{60}	$<2.1 \times 10^{-7}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

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AND DECLASSIFICATION

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BD-7800-056.1 (9-63) ARC-GE RICHLAND WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 137
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6067		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- C AREA				
REQUESTED BY R. B. Hall		AREA 300	BLDG. 3746	PHONE 3772
DATE - TIME SAMPLED 5/15-5/22/63 1015/1000		DATE RECEIVED 5/22/63	DATE COMPLETED 10/18/63	
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μc/mL</u>
I ¹³¹	2.5×10^{-7}
P ³²	5.5×10^{-6}
Zn ⁶⁵	2.3×10^{-5}
Sc ⁴⁶	4.4×10^{-7}
Cr ⁵¹	5.7×10^{-4}
Co ⁶⁰	2.1×10^{-7}

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

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AND DECLASSIFICATION

(AFTER FILL-IN)

DECLASSIFIED

SD-7600-056, I (9-63) REC-GE RICHLAND WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 138
REQUESTOR'S SAMPLE NO.		HL RADIOLOGICAL ANALYSIS		
SAMPLE DESIGNATION		ANALYSIS NO. 6068		
INTEGRATED EFFLUENT WATER				
SAMPLE SITE				
107 BASIN, 100- DR AREA				
REQUESTED BY	AREA	BLDG.	PHONE	
R. B. Hall	300	3746	3772	
DATE - TIME SAMPLED	DATE RECEIVED	DATE COMPLETED		
5/15-5/22/63 0945/0920	5/22/63	10/18/63		
ANALYSIS DESIRED				
I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	$\mu\text{C}/\text{ML}$
I ¹³¹	4.5×10^{-7}
P ³²	3.7×10^{-6}
Zn ⁶⁵	1.2×10^{-5}
Sc ⁴⁶	8.7×10^{-7}
Cr ⁵¹	1.4×10^{-4}
Co ⁶⁰	3.1×10^{-7}

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

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AND DECLASSIFICATION

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DECLASSIFIED

BD-7600-056.1 (9-63) AEC-02 RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 139
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6069		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- B AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 5/15-5/22/63 1025/0955	DATE RECEIVED 5/22/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I ¹³¹ , p ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

μC/ML

I ¹³¹	2.2×10^{-7}
p ³²	1.7×10^{-6}
Zn ⁶⁵	2.1×10^{-5}
Sc ⁴⁶	1.4×10^{-6}
Cr ⁵¹	4.7×10^{-5}
Co ⁶⁰	3.1×10^{-7}

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

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AND DECLASSIFICATION

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BD-7600-056.1 (9-63) AEC-DE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 140
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6077		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- C AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 5/22-5/29/63 1000/1010	DATE RECEIVED 5/29/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μc/mL</u>
I ¹³¹	2.3×10^{-7}
P ³²	6.6×10^{-6}
Zn ⁶⁵	2.0×10^{-5}
Sc ⁴⁶	9.6×10^{-7}
Cr ⁵¹	5.3×10^{-4}
Co ⁶⁰	3.6×10^{-7}

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

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AND DECLASSIFICATION

(AFTER FILL-IN)

BD-7600-056, I (9-63) AEC-DE RICHLAND WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 141
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6078		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- <u>H</u> AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 5/22-5/29/63 0900/0910	DATE RECEIVED 5/29/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , and Co^{60}				

μC/ML

I^{131}	$7.9 \times 10^{-8} \pm 3.5 \times 10^{-8}$
P^{32}	9.5×10^{-8}
Zn^{65}	9.1×10^{-6}
Sc^{46}	7.1×10^{-7}
Cr^{51}	9.7×10^{-6}
Co^{60}	5.6×10^{-7}

/bbm

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

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BD-7600-056.1 (9-63) AEC-DE RICHLAND WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 142
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6079		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- <u>F</u> AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 5/22-5/29/63 0855/0900		DATE RECEIVED 5/29/63		DATE COMPLETED 10/18/63
ANALYSIS DESIRED I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , and Co^{60}				

	$\mu\text{c}/\text{ML}$
I^{131}	$7.0 \times 10^{-8} \pm 3.5 \times 10^{-8}$
P^{32}	9.3×10^{-7}
Zn^{65}	2.4×10^{-6}
Sc^{46}	2.8×10^{-7}
Cr^{51}	4.5×10^{-5}
Co^{60}	$< 8.8 \times 10^{-8}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

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AND DECLASSIFICATION

(AFTER FILL-IN)

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BD-7600-056, I (9-63) AEC-GE RICHLAND WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 143
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6083		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- DR AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 5/29-6/5/63 0940/0910	DATE RECEIVED 6/5/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , and Co^{60}				

	$\mu\text{C}/\text{ML}$
I^{131}	2.3×10^{-7}
P^{32}	3.1×10^{-6}
Zn^{65}	7.1×10^{-5}
Sc^{46}	5.1×10^{-6}
Cr^{51}	1.6×10^{-4}
Co^{60}	5.6×10^{-7}

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

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BD-7600-056.1 (9-63) AEC-DE RICHLAND, WASH.

HW-75958-RD		ANALYTICAL REPORT		PAGE 144
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6084		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- C AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 5/29-6/5/63 1010/0934	DATE RECEIVED 6/5/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I ¹³¹ , p ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μC/ML</u>
I ¹³¹	1.7 x 10 ⁻⁷
p ³²	3.2 x 10 ⁻⁶
Zn ⁶⁵	2.4 x 10 ⁻⁵
Sc ⁴⁶	1.4 x 10 ⁻⁶
Cr ⁵¹	3.1 x 10 ⁻⁴
Co ⁶⁰	2.2 x 10 ⁻⁷

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

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AND DECLASSIFICATION

(AFTER FILL-IN) .

BD-7600-056.1 (9-63) AEC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT.		PAGE 145
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6085		
SAMPLE DESIGNATION				
INTEGRATED EFFLUENT WATER				
SAMPLE SITE				
107 BASIN, 100- <u>H</u> AREA				
REQUESTED BY	AREA	BLDG.	PHONE	
R. E. Hall	300	3746	3772	
DATE - TIME SAMPLED	DATE RECEIVED	DATE COMPLETED		
5/29-6/5/63 0910/0900	6/5/63	10/18/63		
ANALYSIS DESIRED				
I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

μc/mL

I ¹³¹	$4.0 \times 10^{-8} \pm 3.1 \times 10^{-8}$
P ³²	1.4×10^{-7}
Zn ⁶⁵	1.5×10^{-6}
Sc ⁴⁶	$<1.4 \times 10^{-7}$
Cr ⁵¹	2.1×10^{-6}
Co ⁶⁰	1.0×10^{-7}

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

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BD-7600-056.1 (9-63) ARC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 146
REQUESTOR'S SAMPLE NO.		HL RADIOLOGICAL ANALYSIS		
ANALYSIS NO.		6086		
SAMPLE DESIGNATION				
INTEGRATED EFFLUENT WATER				
SAMPLE SITE				
107 BASIN, 100- F AREA				
REQUESTED BY	AREA	BLDG.	PHONE	
R. B. Hall	300	3746	3772	
DATE - TIME SAMPLED	DATE RECEIVED	DATE COMPLETED		
5/29-6/5/63 0900/0835	6/5/63	10/18/63		
ANALYSIS DESIRED				
I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μC/ML</u>
I ¹³¹	1.5×10^{-7}
P ³²	4.3×10^{-6}
Zn ⁶⁵	1.1×10^{-5}
Sc ⁴⁶	7.8×10^{-7}
Cr ⁵¹	1.6×10^{-4}
Co ⁶⁰	1.3×10^{-7}

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

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BD-7600-056.1 (9-63) ARC-GE RICHLAND WASH.

HW-75958-RD		ANALYTICAL REPORT		PAGE 147
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6095		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- H AREA				
REQUESTED BY R. B. Ball	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 6/5/-6/12/63 0850/0910	DATE RECEIVED 6/12/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μc/ML</u>
I ¹³¹	9.3×10^{-8}
P ³²	5.4×10^{-7}
Zn ⁶⁵	1.2×10^{-6}
Sc ⁴⁶	2.9×10^{-8}
Cr ⁵¹	2.9×10^{-6}
Co ⁶⁰	2.0×10^{-7}

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

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BD-7600-056.1 (9-63) AEC-GE RICHLAND, WASH.

HW-75958-RD		ANALYTICAL REPORT		PAGE 148
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6096		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- DR AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 6/5-6/12/63 0910/0930	DATE RECIEVED 6/12/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I ¹³¹ , p ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μc/mL</u>
I ¹³¹	3.6×10^{-7}
p ³²	2.6×10^{-6}
Zn ⁶⁵	1.5×10^{-5}
Sc ⁴⁶	1.1×10^{-6}
Cr ⁵¹	1.9×10^{-4}
Co ⁶⁰	2.5×10^{-7}

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

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BD-7600-056.1 (9-63) ARC-GE RICHLAND WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 149
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6097		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- C AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 6/5-6/12/63 0935/1000	DATE RECEIVED 6/12/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μC/ML</u>
I ¹³¹	2.1×10^{-7}
P ³²	4.0×10^{-6}
Zn ⁶⁵	1.5×10^{-5}
Sc ⁴⁶	5.8×10^{-7}
Cr ⁵¹	5.5×10^{-4}
Co ⁶⁰	1.2×10^{-7}

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

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(AFTER FILL-IN)

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BD-7600-056.1 (9-63) AEC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 150
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6098		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- F AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 6/5-6/12/63 0835/0840	DATE RECEIVED 6/12/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μc/mL</u>
I ¹³¹	$<7.1 \times 10^{-8}$
P ³²	2.2×10^{-6}
Zn ⁶⁵	1.3×10^{-5}
Sc ⁴⁶	5.6×10^{-7}
Cr ⁵¹	4.0×10^{-5}
Co ⁶⁰	1.4×10^{-7}

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

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PO Jackson/RDS

GROUP I
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AND DECLASSIFICATION

DECLASSIFIED

(AFTER FILL-IN)

BD-7600-056.1 (9-63) AEC-GE RICHLAND WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 151
REQUESTOR'S SAMPLE NO.		HL RADIOLOGICAL ANALYSIS		
		ANALYSIS NO. 601		
SAMPLE DESIGNATION				
INTEGRATED EFFLUENT WATER				
SAMPLE SITE				
107 BASIN, 100- <u>H</u> AREA				
REQUESTED BY	AREA	BLDG.	PHONE	
R. B. Hall	300	3746	3772	
DATE - TIME SAMPLED	DATE RECEIVED	DATE COMPLETED		
6/12-6/19/63 0910/0930	6/19/63	10/18/63		
ANALYSIS DESIRED				
I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , and Co^{60}				

μC/ML

I^{131}	$9.1 \times 10^{-8} \pm 3.5 \times 10^{-8}$
P^{32}	$< 8.0 \times 10^{-8}$
Zn^{65}	1.3×10^{-6}
Sc^{46}	6.8×10^{-8}
Cr^{51}	2.4×10^{-6}
Co^{60}	1.9×10^{-7}

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME
OF INTEGRATION PERIOD.

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BD-7600-056.1 (9-63) AEC-GE RICHLAND WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 152
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6102		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- C AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 6/12-6/19/63 1000/1030	DATE RECEIVED 6/19/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μC/ML</u>
I ¹³¹	1.1×10^{-6}
P ³²	5.0×10^{-6}
Zn ⁶⁵	1.9×10^{-5}
Sc ⁴⁶	6.0×10^{-7}
Cr ⁵¹	5.4×10^{-4}
Co ⁶⁰	$<1.2 \times 10^{-7}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

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BD-7600-056, I (9-63) AEC-GE RICHLAND WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 153
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6103		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- DR AREA				
REQUESTED BY R. B. Hall	AREA 300	BLOG. 3746	PHONE 3772	
DATE - TIME SAMPLED 6/12-6/19/63 0930/0945	DATE RECEIVED 6/19/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , and Co^{60}				

	$\mu\text{C}/\text{ML}$
I^{131}	3.0×10^{-7}
P^{32}	2.1×10^{-6}
Zn^{65}	8.1×10^{-6}
Sc^{46}	7.2×10^{-7}
Cr^{51}	1.5×10^{-4}
Co^{60}	$<3.4 \times 10^{-7}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

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BD-7600-056.1 (9-63) REC-GE RICHLAND, WASH.

HW-75958-RD		ANALYTICAL REPORT		PAGE 154
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6104		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- F AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 6/12-6/19/63 0840/0900	DATE RECEIVED 6/19/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I ¹³¹ , p ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μC/ML</u>
I ¹³¹	2.3×10^{-7}
p ³²	3.6×10^{-6}
Zn ⁶⁵	8.6×10^{-6}
Sc ⁴⁶	1.1×10^{-6}
Cr ⁵¹	2.5×10^{-4}
Co ⁶⁰	1.8×10^{-7}

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

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BD-7800-056, I (9-63) AEC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 155
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6109		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 6/19-6/26/63 0900/0830	DATE RECEIVED 6/26/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , and Co^{60}				

	$\mu\text{C}/\text{ML}$
I^{131}	1.0×10^{-7}
P^{32}	2.3×10^{-6}
Zn^{65}	2.2×10^{-5}
Sc^{46}	4.0×10^{-7}
Cr^{51}	9.6×10^{-5}
Co^{60}	2.9×10^{-7}

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

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BD-7600-056.1 (9-63) AEC-62 RICHLAND WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 156
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6110		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- C AREA				
REQUESTED BY R. B. Hall		AREA 300	BLOG. 3746	PHONE 3772
DATE - TIME SAMPLED 6/19-5/26/63 1030/0920		DATE RECIEVED 6/26/63	DATE COMPLETED 10/18/63	
ANALYSIS DESIRED I ¹³¹ , p ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μC/ML</u>
I ¹³¹	5.6 x 10 ⁻⁷
p ³²	3.2 x 10 ⁻⁶
Zn ⁶⁵	1.2 x 10 ⁻⁵
Sc ⁴⁶	7.0 x 10 ⁻⁷
Cr ⁵¹	4.9 x 10 ⁻⁴
Co ⁶⁰	1.3 x 10 ⁻⁷

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

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BD-7600-056.1 (9-63) AEC-GE RICHLAND WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 157
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6111		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- DR AREA				
REQUESTED BY R. P. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 6/19-6/26/63 0945/0900	DATE RECEIVED 6/26/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μC/ML</u>
I ¹³¹	4.5 x 10 ⁻⁷
P ³²	1.7 x 10 ⁻⁶
Zn ⁶⁵	1.6 x 10 ⁻⁵
Sc ⁴⁶	8.5 x 10 ⁻⁷
Cr ⁵¹	2.0 x 10 ⁻⁴
Co ⁶⁰	<6.4 x 10 ⁻⁷

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

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BD-7600-056.1 (9-63) AEC-GE RICHLAND WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 158
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6112		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- H AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 6/19-6/26/63 0930/0840	DATE RECEIVED 6/26/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

μc/ML

I ¹³¹	$8.8 \times 10^{-8} \pm 3.9 \times 10^{-8}$
P ³²	1.5×10^{-7}
Zn ⁶⁵	1.2×10^{-6}
Sc ⁴⁶	9.9×10^{-8} $< 2.1 \times 10^{-7}$
Cr ⁵¹	3.3×10^{-6}
Co ⁶⁰	1.3×10^{-7}

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

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BD-7600-056.1 (9-63) AEC-GE RICHLAND WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 159
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6116		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- B AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 6/29-7/3/63 0920/1005	DATE RECEIVED 7/3/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , and Co^{60}				

	$\mu\text{C}/\text{ML}$
I^{131}	1.2×10^{-7}
P^{32}	3.7×10^{-6}
Zn^{65}	2.0×10^{-5}
Sc^{46}	1.5×10^{-6}
Cr^{51}	3.8×10^{-4}
Co^{60}	1.6×10^{-7}

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

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DECLASSIFIED

BD-7600-056.1 (9-63) AEC-GE RICHMOND, WASH.

HW-75958-RD		ANALYTICAL REPORT		PAGE <u>160</u>
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. <u>6117</u>		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- <u>DR</u> AREA				
REQUESTED BY <u>R. B. Hall</u>	AREA <u>300</u>	BLDG. <u>3746</u>	PHONE <u>3772</u>	
DATE - TIME SAMPLED <u>6/29 - 7/3/63</u>	0900/0940	DATE RECEIVED <u>7/3/63</u>	DATE COMPLETED <u>10/18/63</u>	
ANALYSIS DESIRED <u>I¹³¹, p³², Zn⁶⁵, Sc⁴⁶, Cr⁵¹, and Co⁶⁰</u>				

	<u>μC/ML</u>
I ¹³¹	3.6×10^{-7}
p ³²	2.5×10^{-6}
Zn ⁶⁵	1.2×10^{-5}
Sc ⁴⁶	4.6×10^{-7}
Cr ⁵¹	2.0×10^{-4}
Co ⁶⁰	$<1.5 \times 10^{-7}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

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BD-7600-056.1 (9-63) AEC-GE RICHLAND WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 161
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6118		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- F AREA				
REQUESTED BY R. B. Ball	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 6/26-7/3/63 0830/0900	DATE RECEIVED 7/3/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I ¹³¹ , p ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μC/ML</u>
I ¹³¹	1.7×10^{-7}
p ³²	4.0×10^{-6}
Zn ⁶⁵	1.3×10^{-5}
Sc ⁴⁶	6.3×10^{-7}
Cr ⁵¹	2.9×10^{-4}
Co ⁶⁰	1.8×10^{-7}

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

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BD-7600-056.1 (9-63) AEC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 162
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6119		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- H AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 6/26-7/3/63 0840/0920	DATE RECEIVED 7/3/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μC/ML</u>
I ¹³¹	1.1×10^{-7}
P ³²	6.6×10^{-8}
Zn ⁶⁵	1.0×10^{-6}
Sc ⁴⁶	$<6.0 \times 10^{-8}$
Cr ⁵¹	3.3×10^{-6}
Co ⁶⁰	$<1.8 \times 10^{-7}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

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BD-7600-056.1 (9-63) AEC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE <u>163</u> 155
REQUESTOR'S SAMPLE NO.		HL RADIOLOGICAL ANALYSIS		
ANALYSIS NO.		6122		
SAMPLE DESIGNATION				
INTEGRATED EFFLUENT WATER				
SAMPLE SITE				
107 BASIN, 100- <u>H</u> AREA				
REQUESTED BY	AREA	BLDG.	PHONE	
R. B. Hall	300	3746	3772	
DATE - TIME SAMPLED	DATE RECEIVED	DATE COMPLETED		
7/3-7/10/63 0920/0930	7/10/63	10/18/63		
ANALYSIS DESIRED				
I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , and Co^{60}				

	<u>μC/ML</u>
I^{131}	$9.6 \times 10^{-8} \pm 4.2 \times 10^{-8}$
P^{32}	9.6×10^{-8}
Zn^{65}	1.1×10^{-6}
Sc^{46}	$<4.0 \times 10^{-8}$
Cr^{51}	3.4×10^{-6}
Co^{60}	7.3×10^{-8}

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

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BD-7600-056.1 (9-63) AEC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE ¹⁶⁴ 194
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6123		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- <u>B</u> AREA				
REQUESTED BY R. B. Ball	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 7/3-7/10/63 1005/1030	DATE RECIEVED 7/10/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I ¹³¹ , p ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

μC/ML

I ¹³¹	1.8 x 10 ⁻⁷
p ³²	3.7 x 10 ⁻⁶
Zn ⁶⁵	1.5 x 10 ⁻⁵
Sc ⁴⁶	4.6 x 10 ⁻⁷
Cr ⁵¹	4.8 x 10⁻⁵ 5.1 x 10 ⁻⁴
Co ⁶⁰	1.2 x 10 ⁻⁷

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

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BD-7600-056.1 (9-63) AEC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE ¹⁶⁵ 185
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6124		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- <u>F</u> AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 7/3-7/10/63 0900/0900	DATE RECEIVED 7/10/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , and Co^{60}				

	<u>μC/ML</u>
I^{131}	1.2×10^{-7}
P^{32}	2.3×10^{-6}
Zn^{65}	1.6×10^{-5}
Sc^{46}	3.9×10^{-7}
Cr^{51}	2.0×10^{-4}
Co^{60}	1.5×10^{-7}

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

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BD-7600-056, I (9-63) AEC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 166
REQUESTOR'S SAMPLE NO.		HL RADIOLOGICAL ANALYSIS		
SAMPLE DESIGNATION		ANALYSIS NO. 6130		
INTEGRATED EFFLUENT WATER				
SAMPLE SITE				
107 BASIN, 100- F AREA				
REQUESTED BY	AREA	BLDG.	PHONE	
R. B. Hall	300	3746	3772	
DATE - TIME SAMPLED	DATE RECEIVED	DATE COMPLETED		
7/10-7/17/63 0900/0915	7/17/63	10/18/63		
ANALYSIS DESIRED				
I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

μC/ML

I ¹³¹	$5.6 \times 10^{-8} \pm 4.3 \times 10^{-8}$
P ³²	1.4×10^{-6}
Zn ⁶⁵	9.6×10^{-6}
Sc ⁴⁶	3.6×10^{-7}
Cr ⁵¹	1.1×10^{-4}
Co ⁶⁰	$< 5.0 \times 10^{-7}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

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BD-7600-056, I (9-63) AEC-GE RICHLAND WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 167
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6131		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- H AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 7/10-7/17/63 0930/0930	DATE RECEIVED 7/17/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μc/mL</u>
I ¹³¹	1.1×10^{-7}
P ³²	1.4×10^{-7}
Zn ⁶⁵	1.3×10^{-6}
Sc ⁴⁶	47.2×10^{-8}
Cr ⁵¹	7.2×10^{-6}
Co ⁶⁰	4.5×10^{-8}

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

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BD-7600-056, I (9-63) REC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 168
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6132		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- B AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 7/10-7/17/63 1030/1020	DATE RECEIVED 7/17/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I ¹³¹ , p ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μC/ML</u>
I ¹³¹	2.4×10^{-7}
p ³²	3.9×10^{-6}
Zn ⁶⁵	1.3×10^{-5}
Sc ⁴⁶	2.1×10^{-6}
Cr ⁵¹	5.2×10^{-4}
Co ⁶⁰	3.0×10^{-7}

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

CC: AP BINDER - FILE

PO Jackson/RDS

GROUP I
EXCLUDED FROM AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

(AFTER FILL-IN)

DECLASSIFIED

BD-7600-056.1 (9-63) AEC-DE RICHLAND WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 169
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6133		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- DR AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 7/10-7/17/63 0945/1000	DATE RECEIVED 7/17/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , and Co^{60}				

	<u>$\mu\text{C}/\text{ML}$</u>
I^{131}	1.7×10^{-7}
P^{32}	2.9×10^{-6}
Zn^{65}	2.6×10^{-5}
Sc^{46}	2.7×10^{-6}
Cr^{51}	1.2×10^{-4}
Co^{60}	2.3×10^{-7}

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

CC: AP BINDER - FILE

PO Jackson/RDS

GROUP 1
EXCLUDED FROM AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

(AFTER FILL-IN)

DECLASSIFIED

SD-7600-056.1 (9-63) AEC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 170
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6137		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- B AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 7/17-7/24/63 1020/1200*	DATE RECEIVED 7/24/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μC/ML</u>
I ¹³¹	3.2×10^{-7}
P ³²	3.5×10^{-6}
Zn ⁶⁵	1.2×10^{-5}
Sc ⁴⁶	6.2×10^{-7}
Cr ⁵¹	6.4×10^{-4}
Co ⁶⁰	1.4×10^{-7}

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

* The hour of 1200 was assumed for decay correction purposes since no time appeared on the request for analysis form.

/bbm

CC: AP BINDER - FILE

PO Jackson/RDS

GROUP I
EXCLUDED FROM AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

(AFTER FILL-IN)

BD-7800-056.1 (9-63) AEC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 171
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6138		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- H AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 7/17-7/24/63 0930/0940	DATE RECEIVED 7/24/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μC/ML</u>
I ¹³¹	$7.8 \times 10^{-8} \pm 4.5 \times 10^{-8}$
P ³²	1.9×10^{-7}
Zn ⁶⁵	1.1×10^{-6}
Sc ⁴⁶	1.2×10^{-7}
Cr ⁵¹	9.2×10^{-6}
Co ⁶⁰	1.4×10^{-7}

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

CC: AP BINDER - FILE

PO Jackson/RDS

GROUP 1
EXCLUDED FROM AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

(AFTER FILL-IN)

DECLASSIFIED

BD-7600-056.1 (9-63) REC-08 RICHLAND WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 172
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6139		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- F AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 7/17-7/24/63 0915/0835	DATE RECEIVED 7/24/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I ¹³¹ , p ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

μC/ML

I ¹³¹	$7.0 \times 10^{-8} \pm 4.5 \times 10^{-8}$
p ³²	7.7×10^{-7}
Zn ⁶⁵	4.2×10^{-6}
Sc ⁴⁶	8.8×10^{-8}
Cr ⁵¹	1.0×10^{-4}
Co ⁶⁰	$< 8.4 \times 10^{-8}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

CC: AP BINDER - FILE

PO Jackson/RDS

GROUP I
EXCLUDED FROM AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

DECLASSIFIED

(AFTER FILL-IN)

BD-7600-056.1 (9-63) AEC-GE RICHLAND, WASH.

HW-75958-RD		ANALYTICAL REPORT		PAGE 173
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6144		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- H AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 7/24-7/31/63 0940/1010	DATE RECEIVED 7/31/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , and Co^{60}				

μC/ML

I^{131}	$6.2 \times 10^{-8} \pm 4.3 \times 10^{-8}$
P^{32}	1.3×10^{-7}
Zn^{65}	1.1×10^{-6}
Sc^{46}	$\times 10^{-8}$
Cr^{51}	10^{-6}
Co^{60}	$< 2.0 \times 10^{-7}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

CC: AP BINDER - FILE

PO Jackson/RDS

GROUP I
EXCLUDED FROM AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

(AFTER FILL-IN)

DECLASSIFIED

BD-7600-05C.1 (9-63) AEC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 174
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6145		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- DR AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 7/24-7/31/63 1000/1000	DATE RECEIVED 7/31/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , and Co^{60}				

	$\mu\text{C/ML}$
I^{131}	3.3×10^{-7}
P^{32}	1.9×10^{-6}
Zn^{65}	1.0×10^{-5}
Sc^{46}	3.1×10^{-7}
Cr^{51}	4.0×10^{-4}
Co^{60}	$<1.8 \times 10^{-7}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

CC: AP BINDER - FILE

PO Jackson/RDS

GROUP I
EXCLUDED FROM AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

(AFTER FILL-IN)

DECLASSIFIED

BD-7600-056.1 (9-63) AEC-GE RICHLAND, WASH.

HW-75958-RD		ANALYTICAL REPORT		PAGE 175
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6146		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- B AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 7/24-7/31/63 1025/0930	DATE RECEIVED 7/31/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

μc/mL

I ¹³¹	2.5×10^{-7}
P ³²	2.9×10^{-6}
Zn ⁶⁵	1.6×10^{-5}
Sc ⁴⁶	6.4×10^{-7}
Cr ⁵¹	5.4×10^{-4}
Co ⁶⁰	2.6×10^{-7}

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

CC: AP BINDER - FILE

PO Jackson/RDS

GROUP I
EXCLUDED FROM AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

(AFTER FILL-IN)

DECLASSIFIED

BD-7600-056, I (9-63) AEC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 176
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6147		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- F AREA				
REQUESTED BY R. E. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 7/24-7/31/63 0835/1020	DATE RECEIVED 7/31/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

μc/mL

I ¹³¹	1.0 x 10 ⁻⁷	
P ³²	9.6 x 10 ⁻⁷	
Zn ⁶⁵	4.9 x 10 ⁻⁶	
Sc ⁴⁶	< 5.2 x 10⁻⁷	< 4.6 x 10 ⁻⁷
Cr ⁵¹	1.9 x 10 ⁻⁴	
Co ⁶⁰	< 4.2 x 10⁻⁷	< 3.2 x 10⁻⁷

OK

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

CC: AP BINDER - FILE

PJ Jackson/RDS

GROUP I
EXCLUDED FROM AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

(AFTER FILL-IN)

DECLASSIFIED

BD-7600-056, I (9-63) AEC-GE RICHLAND, WASH.

HW-75958-RD		ANALYTICAL REPORT		PAGE 177
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6152		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- B AREA				
REQUESTED BY R. B. Hall	AREA 300	BLOG. 3746	PHONE 3772	
DATE - TIME SAMPLED 7/31-8/7/63 0930/0845	DATE RECEIVED 8/7/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , and Co^{60}				

	$\mu\text{C}/\text{ML}$
I^{131}	3.4×10^{-7}
P^{32}	4.1×10^{-6}
Zn^{65}	1.1×10^{-5}
Sc^{46}	3.9×10^{-7}
Cr^{51}	9.8×10^{-4}
Co^{60}	$<5.3 \times 10^{-7}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

CC: AP BINDER - FILE

PO Jackson/RDS

GROUP I
EXCLUDED FROM AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

(AFTER FILL-IN)

DECLASSIFIED

BD-7600-056, I (9-63) AEC-GE RICHLAND, WASH.

HW-75958-RD		ANALYTICAL REPORT		PAGE 178
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6153		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- F AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 7/31-8/7/63 1020/1000	DATE RECEIVED 8/7/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μC/ML</u>
I ¹³¹	$7.4 \times 10^{-8} \pm 5.0 \times 10^{-8}$
P ³²	1.0×10^{-6}
Zn ⁶⁵	4.6×10^{-6}
Sc ⁴⁶	1.3×10^{-7}
Cr ⁵¹	1.6×10^{-4}
Co ⁶⁰	$<1.6 \times 10^{-7}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

CC: AP BINDER - FILE

PO Jackson/RDS

GROUP I
EXCLUDED FROM AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

(AFTER FILL-IN)

DECLASSIFIED

BD-7600-056.1 (9-63) REC-GE RICHLAND, WASH.

HW-75958-RD		ANALYTICAL REPORT		PAGE 179
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6154		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- H AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 372	
DATE - TIME SAMPLED 7/31-8/7/63 1010/0940	DATE RECEIVED 8/7/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μC/ML</u>
I ¹³¹	$7.4 \times 10^{-8} \pm 4.8 \times 10^{-8}$
P ³²	1.2×10^{-7}
Zn ⁶⁵	1.0×10^{-6}
Sc ⁴⁶	$<4.2 \times 10^{-8}$
Cr ⁵¹	4.9×10^{-6}
Co ⁶⁰	$<7.1 \times 10^{-8}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

CC: AP BINDER - FILE

PO Jackson/RD

GROUP 1
EXCLUDED FROM AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

(AFTER FILL-IN)

DECLASSIFIED

BD-7600-056.1 (9-63) AEC-OR RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 180
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6155		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- DR AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 7/31-8/7/63 1000/0920	DATE RECEIVED 8/7/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μC/ML</u>
I ¹³¹	3.0×10^{-7}
P ³²	2.0×10^{-6}
Zn ⁶⁵	7.1×10^{-6}
Sc ⁴⁶	5.8×10^{-7}
Cr ⁵¹	5.4×10^{-4}
Co ⁶⁰	$<2.9 \times 10^{-7}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

CC: AP BINDER - FILE

PO Jackson/RDS

GROUP I
EXCLUDED FROM AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

(AFTER FILL-IN)

DECLASSIFIED

BD-7600-056, I (9-63) AEC-GE RICHLAND WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 181
REQUESTOR'S SAMPLE NO.		HL RADIOLOGICAL ANALYSIS		
ANALYSIS NO.		6168		
SAMPLE DESIGNATION				
INTEGRATED EFFLUENT WATER				
SAMPLE SITE				
107 BASIN, 100- F AREA				
REQUESTED BY	AREA	BLDG.	PHONE	
R. B. Hall	300	3746	3772	
DATE - TIME SAMPLED	DATE RECEIVED	DATE COMPLETED		
8/7-8/14/63 1000/1140	8/14/63	10/18/63		
ANALYSIS DESIRED				
I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , and Co^{60}				

μC/ML

I^{131}	$7.2 \times 10^{-8} \pm 4.5 \times 10^{-8}$
P^{32}	1.1×10^{-6}
Zn^{65}	2.3×10^{-6}
Sc^{46}	1.2×10^{-7}
Cr^{51}	1.5×10^{-4}
Co^{60}	$<1.1 \times 10^{-7}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

CC: AP BINDER - FILE

PO Jackson/RDS

GROUP I
EXCLUDED FROM AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

(AFTER FILL-IN)

DECLASSIFIED

BD-7600-056, I (9-63) AEC-GE RICHLAND, WASH.

HW-75958-RD		ANALYTICAL REPORT		PAGE 162
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6171		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- F AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 8/14-8/21/63 1140/1125	DATE RECEIVED 8/21/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μC/ML</u>
I ¹³¹	$1.0 \times 10^{-7} \pm 4.4 \times 10^{-8}$
P ³²	1.2×10^{-6}
Zn ⁶⁵	3.5×10^{-6}
Sc ⁴⁶	1.1×10^{-7}
Cr ⁵¹	2.3×10^{-4}
Co ⁶⁰	$< 8.2 \times 10^{-8}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

CC: AP BINDER - FILE

PO Jackson/RDS

GROUP I
EXCLUDED FROM AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

(AFTER FILL-IN)

DECLASSIFIED

BD-7600-056.1 (9-63) AEC-GE RICHLAND, WASH.

HW-75958-RD		ANALYTICAL REPORT		PAGE 183
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6172		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- H AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 8/14-8/21/63 1125/1110	DATE RECEIVED 8/21/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

μC/ML

I ¹³¹	$7.4 \times 10^{-8} \pm 4.3 \times 10^{-8}$
P ³²	3.1×10^{-7}
Zn ⁶⁵	9.7×10^{-7}
Sc ⁴⁶	$<2.2 \times 10^{-8}$
Cr ⁵¹	4.3×10^{-6}
Co ⁶⁰	$<9.4 \times 10^{-8}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME
OF INTEGRATION PERIOD.

/bbm

CC: AP BINDER - FILE

PO Jackson/RDS

GROUP I
EXCLUDED FROM AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

(AFTER FILL-IN)

DECLASSIFIED

SD-7600-056, I (9-63) ARC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 184
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6176		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- F AREA				
REQUESTED BY R. B. Ball	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 8/21-8/28/63 1125/1125	DATE RECEIVED 8/28/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μc/mL</u>
I ¹³¹	$1.1 \times 10^{-7} \pm 5.0 \times 10^{-8}$
P ³²	1.1×10^{-6}
Zn ⁶⁵	3.4×10^{-6}
Sc ⁴⁶	1.6×10^{-7}
Cr ⁵¹	2.3×10^{-4}
Co ⁶⁰	$<3.9 \times 10^{-8}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

CC: AP BINDER - FILE

PO Jackson/RDS

GROUP 1
EXCLUDED FROM AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

(AFTER FILL-IN)

DECLASSIFIED

BD-7600-056, I (9-63) AEC-DE RICHLAND WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 185
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6177		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- H AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 8/21-8/28/63 1110/1110	DATE RECEIVED 8/28/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μC/ML</u>
I ¹³¹	$7.7 \times 10^{-8} \pm 4.8 \times 10^{-8}$
P ³²	9.1×10^{-8}
Zn ⁶⁵	8.4×10^{-7}
Sc ⁴⁶	$< 8.7 \times 10^{-8}$
Cr ⁵¹	5.5×10^{-6}
Co ⁶⁰	$< 7.0 \times 10^{-8}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

CC: AP BINDER - FILE

PO Jackson/RDS

GROUP I
EXCLUDED FROM AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

(AFTER FILL-IN)

DECLASSIFIED

BD-7600-056, I (9-63) AEC-GE RICHLAND WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 186
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6178		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- DR AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 8/21-8/28/63 1030/1045	DATE RECEIVED 8/28/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I ¹³¹ , p ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μC/ML</u>
I ¹³¹	9.5 x 10 ⁻⁷
p ³²	7.6 x 10 ⁻⁶
Zn ⁶⁵	1.7 x 10 ⁻⁵
Sc ⁴⁶	4.5 x 10 ⁻⁶
Cr ⁵¹	7.9 x 10 ⁻⁴
Co ⁶⁰	6.9 x 10⁻⁷ < 4 x 10 ⁻⁷

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

CC: AP BINDER - FILE

PO Jackson/RDS

GROUP I
EXCLUDED FROM AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

3 of 3

(AFTER FILL-IN)

DECLASSIFIED

BD-7600-056.1 (9-63) AEC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 187
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6179		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- C AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 8/21-8/28/63 1000/1020	DATE RECEIVED 8/28/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μC/ML</u>
I ¹³¹	2.1×10^{-6}
P ³²	2.9×10^{-6}
Zn ⁶⁵	1.1×10^{-5}
Sc ⁴⁶	6.2×10^{-7} 3.1×10^{-7}
Cr ⁵¹	6.1×10^{-4}
Co ⁶⁰	2.8×10^{-7}

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

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PO Jackson/RDS

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SD-7500-056.1 (9-63) ARC-GE RICHLAND, WASH.

HW-75958-RD		ANALYTICAL REPORT		PAGE 188
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6185		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- B AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 8/28/9/4/63 1030/0915	DATE RECEIVED 9/4/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μc/ML</u>
I ¹³¹	1.6×10^{-7}
P ³²	3.8×10^{-6}
Zn ⁶⁵	1.4×10^{-5}
Sc ⁴⁶	4.6×10^{-7}
Cr ⁵¹	6.0×10^{-4}
Co ⁶⁰	3.9×10^{-7}

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

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BD-7600-056.1 (9-63) AEC-GE RICHLAND, WASH.

HW-75958-RD		ANALYTICAL REPORT		PAGE 189
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6126		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- H AREA				
REQUESTED BY R. B. All	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 8/28-9/4/63 1110/1030	DATE RECEIVED 9/4/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

μc/ML

I ¹³¹	$8.8 \times 10^{-8} \pm 4.3 \times 10^{-8}$
P ³²	1.0×10^{-7}
Zn ⁶⁵	8.1×10^{-7}
Sc ⁴⁶	9.4×10^{-8}
Cr ⁵¹	3.8×10^{-6}
Co ⁶⁰	5.4×10^{-8}

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

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(AFTER FILL-IN)

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SD-7600-056.1 (9-63) AEC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 190
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6187		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- C AREA				
REQUESTED BY R. B. Ball	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 8/28-9/4/63 1010/0850	DATE RECEIVED 9/4/63	DATE COMPLETED 10/19/63		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μC/ML</u>
I ¹³¹	4.3×10^{-7}
P ³²	3.6×10^{-6}
Zn ⁶⁵	1.5×10^{-5}
Sc ⁴⁶	1.9×10^{-6}
Cr ⁵¹	6.6×10^{-4}
Co ⁶⁰	$<3.9 \times 10^{-7}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

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BD-7600-056.1 (9-63) AEC-GE RICHLAND, WASH.

HW-75958-RD		ANALYTICAL REPORT		PAGE 191
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6188		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- T AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 8/28-9/4/63 1125/1050	DATE RECEIVED 9/4/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μC/ML</u>
I ¹³¹	1.6×10^{-7}
P ³²	1.5×10^{-6}
Zn ⁶⁵	3.7×10^{-6}
Sc ⁴⁶	$<2.8 \times 10^{-7}$
Cr ⁵¹	2.8×10^{-4}
Co ⁶⁰	$<4.9 \times 10^{-8}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

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AND DECLASSIFICATION

(AFTER FILL-IN)

BD-7600-056.1 (9-63) REC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 192
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6189		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- DR AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 8/28-9/4/63 1045/0945	DATE RECEIVED 9/4/63	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μC/ML</u>
I ¹³¹	2.8×10^{-7}
P ³²	5.8×10^{-6}
Zn ⁶⁵	3.0×10^{-5}
Sc ⁴⁶	2.5×10^{-6}
Cr ⁵¹	4.0×10^{-4}
Co ⁶⁰	1.9×10^{-7}

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

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(AFTER FILL-IN)

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BD-7600-056.1 (9-63) ARC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 193
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6198		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- H AREA				
REQUESTED BY R. D. Hall		AREA 300	BLDG. 3746	PHONE 3772
DATE - TIME SAMPLED 9/4-9/11/63 1030/0855		DATE RECEIVED 9/11/63	DATE COMPLETED 10/18/63	
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μC/ML</u>
I ¹³¹	7.3×10^{-8}
P ³²	3.2×10^{-7}
Zn ⁶⁵	8.7×10^{-7}
Sc ⁴⁶	$< 3 \times 10^{-8}$
Cr ⁵¹	5.1×10^{-6}
Co ⁶⁰	$< 1.2 \times 10^{-7}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

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BD-7600-056.1 (9-63) AEC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 194
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6199		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- F AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 9/4-9/11/63 1050/0840	DATE RECEIVED	DATE COMPLETED 10/18/63		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μc/ML</u>
I ¹³¹	9.3×10^{-8}
P ³²	1.2×10^{-6}
Zn ⁶⁵	3.7×10^{-6}
Sc ⁴⁶	$<1.5 \times 10^{-7}$
Cr ⁵¹	1.4×10^{-4}
Co ⁶⁰	$<5.4 \times 10^{-8}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

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(AFTER FILL-IN)

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BD-7600-056.1 (9-63) AEC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 195
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6200		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- C AREA				
REQUESTED BY R. B. Hall		AREA 300	BLDG. 3746	PHONE 3772
DATE - TIME SAMPLED 9/4/-9/11/63 0850/0935		DATE RECEIVED 9/11/63	DATE COMPLETED 10/18/63	
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μC/ML</u>
I ¹³¹	3.8×10^{-7}
P ³²	3.6×10^{-6}
Zn ⁶⁵	8.0×10^{-6}
Sc ⁴⁶	9.8×10^{-7}
Cr ⁵¹	7.6×10^{-4}
Co ⁶⁰	1.9×10^{-7}

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

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BD-7600-056.1 (9-63) AEC-GE RICHLAND WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 196
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6213		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- F AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 9/11-9/18/63 0840/0840	DATE RECEIVED 9/18/63	DATE COMPLETED 1/4/64		
ANALYSIS DESIRED I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , and Co^{60}				

$\mu C/ML$

I^{131}	1.3×10^{-7}
P^{32}	7.7×10^{-6}
Zn^{65}	4.8×10^{-6}
Sc^{46}	$2.2 \times 10^{-7} \pm 6.7 \times 10^{-8}$
Cr^{51}	3.3×10^{-4}
Co^{60}	$<1.5 \times 10^{-7}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

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1-4-64

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(AFTER FILL-IN)

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BD-7600-056.1 (9-63) AEC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 197
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6214		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- B AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 9/11-9/18/63 0940/0940	DATE RECEIVED 9/18/63	DATE COMPLETED 1/4/64		
ANALYSIS DESIRED I ¹³¹ , p ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μC/ML</u>
I ¹³¹	2.6×10^{-7}
p ³²	4.5×10^{-6}
Zn ⁶⁵	5.9×10^{-6}
Sc ⁴⁶	1.9×10^{-7}
Cr ⁵¹	6.0×10^{-4}
Co ⁶⁰	$<2.3 \times 10^{-7}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

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1-4-64

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AND DECLASSIFICATION

(AFTER FILL-IN)

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BD-7600-056.1 (9-63) AEC-GE RICHLAND, WASH.

HW-75958-RD		ANALYTICAL REPORT		PAGE 198
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6215		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100-- DR AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 9/11-9/18/63 0905/0905	DATE RECEIVED 9/18/63	DATE COMPLETED 1/4/64		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μC/ML</u>
I ¹³¹	4.2×10^{-7}
P ³²	5.5×10^{-6}
Zn ⁶⁵	1.1×10^{-5}
Sc ⁴⁶	6.1×10^{-6}
Cr ⁵¹	9.7×10^{-4}
Co ⁶⁰	2.7×10^{-7}

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

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PO Jackson/RDS
1-4-64

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BD-7600-056, I (9-63) AEC-GE RICHARD, WASH.

HW-75958-RD		ANALYTICAL REPORT		PAGE 199
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6216		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- C AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 9/11-9/18/63 0935/0930	DATE RECEIVED 9/18/63	DATE COMPLETED 1-4-64		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μC/ML</u>
I ¹³¹	3.1×10^{-7}
P ³²	3.5×10^{-6}
Zn ⁶⁵	5.2×10^{-6}
Sc ⁴⁶	2.8×10^{-7}
Cr ⁵¹	2.0×10^{-4}
Co ⁶⁰	9.7×10^{-8}

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

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PO Jackson/RDS
1-4-64

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AND DECLASSIFICATION

(AFTER FILL-IN)

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BD-7600-056.1 (9-63) AEC-GE RICHLAND, WASH.

HW-75958-RD		ANALYTICAL REPORT		PAGE 200
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6217		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- H AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 9/11-9/18/63 0855/0855	DATE RECEIVED 9/18/63	DATE COMPLETED 1/4/64		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

μC/ML

I ¹³¹	$6.1 \times 10^{-8} \pm 4.2 \times 10^{-8}$
P ³²	1.2×10^{-6}
Zn ⁶⁵	4.2×10^{-5}
Sc ⁴⁶	4.2×10^{-6}
Cr ⁵¹	3.8×10^{-5}
Co ⁶⁰	$\sim 8 \times 10^{-6}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

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1-4-64

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AND DECLASSIFICATION

(AFTER FILL-IN)

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BD-7600-056.1 (9-63) AEC-GE RICHLAND, WASH.

HW-75958-RD		ANALYTICAL REPORT		PAGE 201
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6223		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- DR AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 9/18-9/25/63 0905/0910	DATE RECEIVED 9/25/63	DATE COMPLETED 1/4/64		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μc/ML</u>
I ¹³¹	4.2×10^{-7}
P ³²	7.4×10^{-6}
Zn ⁶⁵	9.3×10^{-6}
Sc ⁴⁶	8.0×10^{-7}
Cr ⁵¹	5.7×10^{-4}
Co ⁶⁰	$<3.4 \times 10^{-7}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

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1-4-64

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(AFTER FILL-IN)

BD-7600-056.1 (9-63) AEC-GE RICHLAND, WASH.

HW-75958-RD		ANALYTICAL REPORT		PAGE 202
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6224		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- B AREA				
REQUESTED BY R. B. Ball	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 9/18-9/25/63 0940/1000	DATE RECEIVED 9/25/63	DATE COMPLETED 1/4/64		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μC/ML</u>
I ¹³¹	1.4×10^{-6}
P ³²	3.4×10^6
Zn ⁶⁵	1.3×10^{-5}
Sc ⁴⁶	1.1×10^{-6}
Cr ⁵¹	3.8×10^{-4}
Co ⁶⁰	$\sim 4 \times 10^{-7}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME
OF INTEGRATION PERIOD.

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1-4-64

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AND DECLASSIFICATION

(AFTER FILL-IN)

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BD-7600-056, I (9-63) AEC-GE RICHLAND, WASH.

HW-75958-RD		ANALYTICAL REPORT		PAGE 203
REQUESTOR'S SAMPLE NO.		HL RADIOLOGICAL ANALYSIS		
SAMPLE DESIGNATION		ANALYSIS NO. 6225		
INTEGRATED EFFLUENT WATER				
SAMPLE SITE				
107 BASIN, 100- F AREA				
REQUESTED BY R. B. Ball	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 9/18-9/25/63 0840/0845	DATE RECEIVED 9/25/63	DATE COMPLETED 1/4/64		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μC/ML</u>
I 131	1.2×10^{-7}
P 32	2.2×10^{-6}
Zn 65	6.5×10^{-6}
Sc 46	2.4×10^{-7}
Cr 51	2.9×10^{-4}
Co 60	$< 7.8 \times 10^{-8}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

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1-4-64

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AND DECLASSIFICATION

(AFTER FILL-IN)

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BD-7600-056, I (9-63) AEC-GE RICHLAND, WASH.

HW-75958-RD		ANALYTICAL REPORT		PAGE 204
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6226		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- C AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 9/18-9/25/63 0930/0950	DATE RECEIVED 9/25/63	DATE COMPLETED 1/4/64		
ANALYSIS DESIRED I ¹³¹ , p ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μC/ML</u>
I ¹³¹	2.6×10^{-7}
p ³²	2.8×10^{-6}
Zn ⁶⁵	7.0×10^{-5}
Sc ⁴⁶	1.4×10^{-5}
Cr ⁵¹	3.4×10^{-4}
Co ⁶⁰	$\sim 1 \times 10^{-6}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

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1-4-64

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AND DECLASSIFICATION

(AFTER FILL-IN)

DECLASSIFIED

BD-7600-056.1 (9-63) AEC-GE RICHLAND, WASH.

HW-75958-RD		ANALYTICAL REPORT		PAGE 205
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6227		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- H AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 9/18-9/25/63 0855/0900	DATE RECEIVED 9/25/63	DATE COMPLETED 1/4/64		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μc/mL</u>
I ¹³¹	$< 7.1 \times 10^{-8}$
P ³²	1.4×10^{-6}
Zn ⁶⁵	8.1×10^{-5}
Sc ⁴⁶	4.3×10^{-6}
Cr ⁵¹	2.9×10^{-5}
Co ⁶⁰	$\sim 9 \times 10^{-6}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

CC: AP BINDER - FILE

PO Jackson/RDS
1-4-64

GROUP 1
EXCLUDED FROM AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

(AFTER FILL-IN)

DECLASSIFIED

BD-7600-056, I (9-63) ARC-GE RICHLAND, WASH.

HW-75958-RD		ANALYTICAL REPORT		PAGE 206
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6233		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- F AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 9/25-10/2/63 0845/0850	DATE RECEIVED 10/2/63	DATE COMPLETED 1/4/64		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μC/ML</u>
I ¹³¹	1.6 x 10 ⁻⁷
P ³²	1.8 x 10 ⁻⁶
Zn ⁶⁵	6.0 x 10 ⁻⁶
Sc ⁴⁶	3.2 x 10 ⁻⁷
Cr ⁵¹	3.1 x 10 ⁻⁴
Co ⁶⁰	<1.7 x 10 ⁻⁷

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

CC: AP BINDER - FILE

PO Jackson/RDS
1-4-64

GROUP I
EXCLUDED FROM AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

DECLASSIFIED

(AFTER FILL-IN)

BD-760C-056.1 (9-63) AEC-GE RICHLAND, WASH.

HW-75958-RD		ANALYTICAL REPORT		PAGE 207
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6234		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- <u>H</u> AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 9/25-10/2/63 0900/0900	DATE RECEIVED 10/2/63	DATE COMPLETED 1/4/64		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μC/ML</u>
I ¹³¹	$7.8 \times 10^{-8} \pm 4.6 \times 10^{-8}$
P ³²	4.8×10^{-7}
Zn ⁶⁵	1.2×10^{-5}
Sc ⁴⁶	1.4×10^{-7}
Cr ⁵¹	1.5×10^{-6}
Co ⁶⁰	$\sim 1 \times 10^{-6}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

CC: AP BINDER - FILE

PO Jackson/RDS
1-4-64

GROUP I
EXCLUDED FROM AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

DECLASSIFIED

(AFTER FILL-IN)

BD-7600-056, I (9-63) ARC-08 RICHLAND, WASH.

HW-75958-RD		ANALYTICAL REPORT ^m		PAGE 208
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6235		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- DR AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 9/25-10/2/63 0910/0910	DATE RECEIVED 10/2/63	DATE COMPLETED 1/4/64		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μC/ML</u>
I ¹³¹	3.5 x 10 ⁻⁷
P ³²	6.2 x 10 ⁻⁶
Zn ⁶⁵	8.3 x 10 ⁻⁶
Sc ⁴⁶	1.3 x 10 ⁻⁶
Cr ⁵¹	6.5 x 10 ⁻⁴
Co ⁶⁰	<2.5 x 10 ⁻⁷

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

CC: AP BINDER - FILE

PO Jackson/RDS
1-4-64

GROUP I
EXCLUDED FROM AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

(AFTER FILL-IN)

DECLASSIFIED

BD-7600-056.1 (9-63) ARC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 209
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6236		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- C AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 9/25-10/2/63 0955/0940	DATE RECEIVED 10/2/63	DATE COMPLETED 1/4/64		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μc/mL</u>
I ¹³¹	1.6×10^{-7}
P ³²	1.9×10^{-6}
Zn ⁶⁵	9.0×10^{-6}
Sc ⁴⁶	6.7×10^{-6}
Cr ⁵¹	2.0×10^{-4}
Co ⁶⁰	$\sim 2 \times 10^{-7}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

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PO Jackson/RDS
1-4-64

GROUP I
EXCLUDED FROM AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

DECLASSIFIED

(AFTER FILL-IN)

BD-7600-056.1 (9-63) AEC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 210
REQUESTOR'S SAMPLE NO.		HL RADIOLOGICAL ANALYSIS		
SAMPLE DESIGNATION		ANALYSIS NO. 6251		
INTEGRATED EFFLUENT WATER				
SAMPLE SITE				
107 BASIN, 100- DR AREA				
REQUESTED BY	AREA	BLOG.	PHONE	
R. B. Hall	300	3746	3772	
DATE - TIME SAMPLED	DATE RECEIVED	DATE COMPLETED		
10/2-10/9/63 0910/0930	10/9/63	1/4/64		
ANALYSIS DESIRED				
I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μC/ML</u>
I ¹³¹	3.7×10^{-7}
P ³²	7.2×10^{-6}
Zn ⁶⁵	2.7×10^{-5}
Sc ⁴⁶	5.6×10^{-6}
Cr ⁵¹	3.7×10^{-4}
Co ⁶⁰	4×10^{-7}

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME
OF INTEGRATION PERIOD.

/bbm

CC: AP BINDER - FILE

 PO Jackson/RDS
 1-4-64

GROUP 1
 EXCLUDED FROM AUTOMATIC DOWNGRADING
 AND DECLASSIFICATION

(AFTER FILL-IN)

DECLASSIFIED

BD-7600-056.1 (9-63) AEC-GE RICHLAND, WASH.

HW-75958-RD		ANALYTICAL REPORT		PAGE 211
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6252		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- F AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 10/2-10/9/63 0850/0900	DATE RECEIVED 10/9/63	DATE COMPLETED 1/4/64		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μC/ML</u>
I ¹³¹	2.3×10^{-7}
P ³²	3.2×10^{-6}
Zn ⁶⁵	6.4×10^{-6}
Sc ⁴⁶	4.8×10^{-7}
Cr ⁵¹	5.5×10^{-4}
Co ⁶⁰	3.8×10^{-8} $< 2.1 \times 10^{-7}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

CC: AP BINDER - FILE

PO Jackson/RDS
1-4-64

GROUP 1
EXCLUDED FROM AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

(AFTER FILL-IN)

DECLASSIFIED

BD-7600-056.1 (9-63) AEC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 212
REQUESTOR'S SAMPLE NO.		HL RADIOLOGICAL ANALYSIS		
SAMPLE DESIGNATION		ANALYSIS NO. 6253		
INTEGRATED EFFLUENT WATER				
SAMPLE SITE				
107 BASIN, 100- B AREA				
REQUESTED BY	AREA	BLDG.	PHONE	
R. B. Hall	300	3746	3772	
DATE - TIME SAMPLED	DATE RECEIVED	DATE COMPLETED		
10/2-10/9/63 0945/1025	10/9/63	1/4/64		
ANALYSIS DESIRED				
I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , and Co^{60}				

	$\mu\text{C/ML}$
I^{131}	3.1×10^{-6}
P^{32}	3.0×10^{-6}
Zn^{65}	1.0×10^{-5}
Sc^{46}	5.0×10^{-7}
Cr^{51}	4.9×10^{-4}
Co^{60}	9.0×10^{-8} 1.0×10^{-7} $< 9 \times 10^{-7}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

CC: AP BINDER - FILE

PO Jackson/RDS
1-4-64

GROUP I
EXCLUDED FROM AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

(AFTER FILL-IN)

DECLASSIFIED

BD-7600-056.1 (9-63) AEC-GE RICHLAND, WASH.

HW-75958-RD		ANALYTICAL REPORT		PAGE 213
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6254		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- C AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 10/2-10/9/63 0940/1020	DATE RECEIVED 10/9/63	DATE COMPLETED 1/4/64		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μC/ML</u>
I ¹³¹	3.0×10^{-7}
P ³²	3.0×10^{-6}
Zn ⁶⁵	7.1×10^{-6}
Sc ⁴⁶	2.9×10^{-4}
Cr ⁵¹	5.8×10^{-7}
Co ⁶⁰	$<4.5 \times 10^{-7}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

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PO Jackson/RDS
1-4-64

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AND DECLASSIFICATION

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BD-7600-056, I (9-63) AEC-GE RICHLAND, WASH.

HW-75958-RD		ANALYTICAL REPORT		PAGE 214
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6255		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- H AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 10/2-10/9/63 0900/0915	DATE RECEIVED 10/9/63	DATE COMPLETED 1/4/64		
ANALYSIS DESIRED I ¹³¹ , p ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μC/ML</u>
I ¹³¹	$7.8 \times 10^{-8} \pm 5.9 \times 10^{-8}$
p ³²	3.9×10^{-7}
Zn ⁶⁵	4.8×10^{-6}
Sc ⁴⁶	$< 1.4 \times 10^{-7}$
Cr ⁵¹	1.8×10^{-6}
Co ⁶⁰	$\sim 7 \times 10^{-7}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

CC: AP BINDER - FILE

PO Jackson/RDS
1-4-64

GROUP I
EXCLUDED FROM AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

(AFTER FILL-IN)

DECLASSIFIED

BD-7600-056.1 (9-63) AEC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 215
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6256		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- B AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 10/9-10/16/63 1025/1110	DATE RECEIVED 10/16/63	DATE COMPLETED 1/4/64		
ANALYSIS DESIRED I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , and Co^{60}				

	$\mu\text{C}/\text{ML}$
I^{131}	8.7×10^{-7}
P^{32}	4.5×10^{-6}
Zn^{65}	8.7×10^{-6}
Sc^{46}	4.2×10^{-7}
Cr^{51}	5.7×10^{-4}
Co^{60}	$\sim 2 \times 10^{-7}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

CC: AP BINDER - FILE

PO Jackson/RDS
1-4-64

GROUP I
EXCLUDED FROM AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

(AFTER FILL-IN)

DECLASSIFIED

BD-7600-056.1 (9-63) AEC-GE RICHLAND WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 216
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6257		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- C AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 10/9-10/16/63 1020/1100	DATE RECEIVED 10/16/63	DATE COMPLETED 1/4/64		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μC/ML</u>
I ¹³¹	3.1×10^{-7}
P ³²	5.9×10^{-6}
Zn ⁶⁵	9.8×10^{-6}
Sc ⁴⁶	2.7×10^{-6}
Cr ⁵¹	7.4×10^{-4}
Co ⁶⁰	$\sim 3 \times 10^{-7}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

CC: AP BINDER - FILE

PO Jackson/RDS
1-4-64

GROUP I
EXCLUDED FROM AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

(AFTER FILL-IN)

DECLASSIFIED

BD-7600-056.1 (9-63) AEC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 217
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6253		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- DR AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 10/9-10/16/63, 0930/1025	DATE RECEIVED 10/16/63	DATE COMPLETED 1/4/64		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μc/ML</u>
I ¹³¹	4.0×10^{-7}
P ³²	6.0×10^{-6}
Zn ⁶⁵	8.6×10^{-6}
Sc ⁴⁶	6.4×10^{-7}
Cr ⁵¹	6.7×10^{-4}
Co ⁶⁰	$<3.0 \times 10^{-7}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

CC: AP BINDER - FILE

PO Jackson/RDS
1-4-64

GROUP I
EXCLUDED FROM AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

(AFTER FILL-IN)

DECLASSIFIED

BD-7600-056, I (9-63) AEC-GE RICHLAND WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 218
REQUESTOR'S SAMPLE NO.		HL RADIOLOGICAL ANALYSIS		
ANALYSIS NO.		6259		
SAMPLE DESIGNATION				
INTEGRATED EFFLUENT WATER				
SAMPLE SITE				
107 BASIN, 100- <u>H</u> AREA				
REQUESTED BY	AREA	BLDG.	PHONE	
R. B. Hall	300	3746	3772	
DATE - TIME SAMPLED	DATE RECEIVED	DATE COMPLETED		
10/9-10/16/63 0915/1010	10/16/63	1/4/64		
ANALYSIS DESIRED				
I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

μc/mL

I ¹³¹	$5.0 \times 10^{-8} \pm 4.2 \times 10^{-8}$
P ³²	2.4×10^{-7}
Zn ⁶⁵	3.5×10^{-6}
Sc ⁴⁶	$\sim 2 \times 10^{-7}$
Cr ⁵¹	2.5×10^{-6}
Co ⁶⁰	$\sim 5 \times 10^{-7}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

CC: AP BINDER - FILE

PO Jackson/RDS

1-4-64

GROUP I
EXCLUDED FROM AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

DECLASSIFIED

(AFTER FILL-IN)

BD-7600-056, I (9-63) REC-GE RICHLAND WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 219
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6260		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- F AREA				
REQUESTED BY R. B. Hall	AREA 300	BLOG. 3746	PHONE 3772	
DATE - TIME SAMPLED 10/9-10/16/63 0900/1000	DATE RECEIVED 10/16/63	DATE COMPLETED 1/4/64		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μC/ML</u>
I ¹³¹	1.5×10^{-7}
P ³²	1.7×10^{-6}
Zn ⁶⁵	6.9×10^{-6}
Sc ⁴⁶	3.2×10^{-7}
Cr ⁵¹	2.2×10^{-4}
Co ⁶⁰	$<1.5 \times 10^{-7}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

CC: AP BINDER - FILE

PO Jackson/RDS
1-4-64

GROUP I
EXCLUDED FROM AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

DECLASSIFIED

(AFTER FILL-IN)

BD-7600-056.1 (9-63) AEC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 220
REQUESTOR'S SAMPLE NO.		HL RADIOLOGICAL ANALYSIS		
		ANALYSIS NO. 6264		
SAMPLE DESIGNATION				
INTEGRATED EFFLUENT WATER				
SAMPLE SITE				
107 BASIN, 100- DR AREA				
REQUESTED BY	AREA	BLDG.	PHONE	
R. B. Hall	300	3746	3772	
DATE - TIME SAMPLED	DATE RECEIVED	DATE COMPLETED		
10/16-10/23/63 0930/0930	10/23/63			
ANALYSIS DESIRED				
I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μC/ML</u>
I ¹³¹	4.2×10^{-7}
P ³²	5.7×10^{-6}
Zn ⁶⁵	9.0×10^{-6}
Sc ⁴⁶	1.4×10^{-6}
Cr ⁵¹	7.9×10^{-4}
Co ⁶⁰	$\sim 3 \times 10^{-7}$

/bbm

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

CC: AP BINDER - FILE

PO Jackson/RDS
1-15-64

GROUP I
EXCLUDED FROM AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

(AFTER FILL-IN)

DECLASSIFIED

SD-7600-056.1 (9-63) AEC-GE RICHLAND WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 221
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6265		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- C AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 10/16-10/23/63 1000/1000	DATE RECEIVED 10/23/63	DATE COMPLETED		
ANALYSIS DESIRED I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , and Co^{60}				

	$\mu\text{C}/\text{ML}$
I^{131}	3.6×10^{-7}
P^{32}	5.8×10^{-6}
Zn^{65}	1.2×10^{-5}
Sc^{46}	1.2×10^{-6}
Cr^{51}	8.0×10^{-4}
Co^{60}	$\sim 3 \times 10^{-7}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

CC: AP BINDER - FILE

PO Jackson/RDS
1-15-64

GROUP I
EXCLUDED FROM AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

(AFTER FILL-IN)

DECLASSIFIED

BD-7600-056.1 (9-63) AEC-GE RICHLAND WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 222
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6266		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- H AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 10/16-10/23/63 0910/0910	DATE RECEIVED 10/23/63	DATE COMPLETED		
ANALYSIS DESIRED I ¹³¹ , p ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μC/ML</u>
I ¹³¹	$6.6 \times 10^{-8} \pm 4.4 \times 10^{-8}$
p ³²	$1.7 \times 10^{-7} \pm 6.3 \times 10^{-8}$
Zn ⁶⁵	3.0×10^{-6}
Sc ⁴⁶	$< 2.1 \times 10^{-7}$
Cr ⁵¹	3.8×10^{-7}
Co ⁶⁰	$\sim 4 \times 10^{-7}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

CC: AP BINDER - FILE

PO Jackson/RDS
1-15-64

GROUP I
EXCLUDED FROM AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

(AFTER FILL-IN)

DECLASSIFIED

SD-7600-056.1 (9-63) ARC-GE RICHLAND WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 223
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6267		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- F AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 10/16-10/23/63 0900/0900	DATE RECEIVED 10/23/63	DATE COMPLETED		
ANALYSIS DESIRED I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , and Co^{60}				

	$\mu\text{C/ML}$
I^{131}	1.7×10^{-7}
P^{32}	2.3×10^{-6}
Zn^{65}	5.5×10^{-6}
Sc^{46}	3.5×10^{-7}
Cr^{51}	4.6×10^{-4}
Co^{60}	$< 2 \times 10^{-7}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

CC: AP BINDER - FILE

PO Jackson/RDS
1-15-64

GROUP I
EXCLUDED FROM AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

S [REDACTED]
(AFTER FILL-IN)

DECLASSIFIED

BD-7600-056.1 (9-63) ARC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 224
REQUESTOR'S SAMPLE NO.		HL RADIOLOGICAL ANALYSIS		
ANALYSIS NO.		6272		
SAMPLE DESIGNATION				
INTEGRATED EFFLUENT WATER				
SAMPLE SITE				
107 BASIN, 100- DR AREA				
REQUESTED BY	AREA	BLDG.	PHONE	
R. B. Ball	300	3746	3772	
DATE - TIME SAMPLED	DATE RECEIVED	DATE COMPLETED		
10/23-10/30/63 0930/0940	10/30/63			
ANALYSIS DESIRED				
I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μC/ML</u>
I ¹³¹	5.3×10^{-7}
P ³²	6.6×10^{-6}
Zn ⁶⁵	1.0×10^{-5}
Sc ⁴⁶	8.7×10^{-7}
Cr ⁵¹	8.9×10^{-4}
Co ⁶⁰	$\sim 2 \times 10^{-7}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME
OF INTEGRATION PERIOD.

/bbm

CC: AP BINDER - FILE

PO Jackson/RDS
1-15-64

GROUP I
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AND DECLASSIFICATION

(AFTER FILL-IN)

DECLASSIFIED

BD-7600-056, I (9-63) REC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 225
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6273		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- F AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 372	
DATE - TIME SAMPLED 10/23-10/30/64 0900-0900	DATE RECEIVED 10/30/63	DATE COMPLETED		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μC/ML</u>
I ¹³¹	1.5×10^{-7}
P ³²	1.8×10^{-6}
Zn ⁶⁵	5.2×10^{-6}
Sc ⁴⁶	7.3×10^{-7}
Cr ⁵¹	2.8×10^{-4}
Co ⁶⁰	$<3 \times 10^{-7}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

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PO Jackson/RDS
1-15-64

GROUP 1
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AND DECLASSIFICATION

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(AFTER FILL-IN)

BD-7600-056, I (9-63) AEC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 226
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6274		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- C AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 10/23-10/30/63, 1000/1020	DATE RECEIVED 10/30/63	DATE COMPLETED		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μC/ML</u>
I ¹³¹	5.5×10^{-7}
P ³²	3.2×10^{-6}
Zn ⁶⁵	1.3×10^{-5}
Sc ⁴⁶	1.1×10^{-6}
Cr ⁵¹	1.0×10^{-3}
Co ⁶⁰	$\sim 2 \times 10^{-7}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

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PO Jackson/RDS
1-15-64

GROUP I
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AND DECLASSIFICATION

(AFTER FILL-IN)

DECLASSIFIED

BD-7600-056.1 (9-63) AEC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 227
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6275		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- H AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 10/23-10/30/63 0910/0920	DATE RECEIVED 10/30/63	DATE COMPLETED		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	$\mu\text{C}/\text{ML}$
I ¹³¹	$9.1 \times 10^{-8} \pm 4.4 \times 10^{-8}$
P ³²	$2.5 \times 10^{-7} \pm 7.4 \times 10^{-8}$
Zn ⁶⁵	2.1×10^{-6}
Sc ⁴⁶	$< 2.6 \times 10^{-7}$
Cr ⁵¹	$\sim 5 \times 10^{-7}$
Co ⁶⁰	$< 3 \times 10^{-7}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

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AND DECLASSIFICATION

(AFTER FILL-IN)

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BD-7600-056.1 (9-63) REC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 228
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6280		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- C AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 10/30-11/6/63 1020/1035	DATE RECEIVED 11/6/63	DATE COMPLETED		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μC/ML</u>
I ¹³¹	7.3 x 10 ⁻⁷
P ³²	1.3 x 10 ⁻⁵
Zn ⁶⁵	1.4 x 10 ⁻⁵
Sc ⁴⁶	3.9 x 10 ⁻⁶
Cr ⁵¹	9.8 x 10 ⁻⁴
Co ⁶⁰	<8 x 10 ⁻⁷

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

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(AFTER FILL-IN)

BD-7600-056.1 (9-63) AEC-DE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 229
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6281		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- F AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 10/30-11/6/63, 0900/1120	DATE RECIEVED 11/6/63	DATE COMPLETED		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

μC/ML

I ¹³¹	$9.1 \times 10^{-8} \pm 5.4 \times 10^{-8}$
P ³²	1.0×10^{-6}
Zn ⁶⁵	3.9×10^{-6}
Sc ⁴⁶	$\sim 1 \times 10^{-7}$
Cr ⁵¹	1.7×10^{-4}
Co ⁶⁰	$< 2 \times 10^{-7}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME
OF INTEGRATION PERIOD.

/bbm

CC: AP BINDER - FILE

PO Jackson/RDS
1-15-64

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AND DECLASSIFICATION

DECLASSIFIED

(AFTER FILL-IN)

BD-7600-056.1 (9-63) AEC-GE RICHLAND, WASH.

HW-75958-RD		ANALYTICAL REPORT		PAGE 230
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6282		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- <u>H</u> AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 10/30-11/6/63, 0930/1110	DATE RECEIVED 11/6/63	DATE COMPLETED		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μC/ML</u>
I ¹³¹	$8.3 \times 10^{-8} \pm 6.0 \times 10^{-8}$
P ³²	$2.6 \times 10^{-7} \pm 5.7 \times 10^{-8}$
Zn ⁶⁵	1.3×10^{-6}
Sc ⁴⁶	$< 1.4 \times 10^{-7}$
Cr ⁵¹	$4.6 \times 10^{-7} \pm 1.3 \times 10^{-7}$
Co ⁶⁰	$< 3 \times 10^{-7}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

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PO Jackson/RDS
1-15-64

GROUP 1
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AND DECLASSIFICATION

DECLASSIFIED

(AFTER FILL-IN)

BD-7600-056.1 (9-63) AEC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE <u>231</u>
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. <u>6283</u>		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- <u>DR</u> AREA				
REQUESTED BY <u>R. B. Hall</u>	AREA <u>300</u>	BLDG. <u>3746</u>	PHONE <u>3772</u>	
DATE - TIME SAMPLED <u>10/30-11/6/63 0940/1100</u>	DATE RECEIVED <u>11/6/63</u>	DATE COMPLETED		
ANALYSIS DESIRED <u>I¹³¹, P³², Zn⁶⁵, Sc⁴⁶, Cr⁵¹, and Co⁶⁰</u>				

	<u>μC/ML</u>
I ¹³¹	4.7×10^{-7}
P ³²	8.5×10^{-6}
Zn ⁶⁵	9.8×10^{-6}
Sc ⁴⁶	9.7×10^{-7}
Cr ⁵¹	8.2×10^{-4}
Co ⁶⁰	$<3 \times 10^{-7}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

CC: AP BINDER - FILE

PO Jackson/RDS
1-15-64

GROUP I
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AND DECLASSIFICATION

(AFTER FILL-IN)

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BD-7600-056.1 (9-63) AEC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 232
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6288		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- B AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 11/6-11/13/63 1040/0925	DATE RECEIVED 11/13/63	DATE COMPLETED		
ANALYSIS DESIRED I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , and Co^{60}				

	$\mu\text{C}/\text{ML}$
I^{131}	4.0×10^{-7}
P^{32}	6.1×10^{-6}
Zn^{65}	8.0×10^{-6}
Sc^{46}	5.3×10^{-7}
Cr^{51}	5.4×10^{-4}
Co^{60}	$\sim 3 \times 10^{-7}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

CC: AP BINDER - FILE

PO Jackson/RDS
1-15-64

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AND DECLASSIFICATION

(AFTER FILL-IN)

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BD-7600-056.1 (9-63) AEC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 233
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6289		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- C AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 11/6-11/13/63 1135/0920	DATE RECEIVED 11/13/63	DATE COMPLETED		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μC/ML</u>
I ¹³¹	3.2×10^{-7}
P ³²	5.5×10^{-6}
Zn ⁶⁵	2.3×10^{-5}
Sc ⁴⁶	1.9×10^{-6}
Cr ⁵¹	5.2×10^{-4}
Co ⁶⁰	$\sim 5 \times 10^{-7}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

CC: AP BINDER - FILE

PO Jackson/RDS
1-15-64

GROUP I
EXCLUDED FROM AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

(AFTER FILL-IN)

DECLASSIFIED

BD-7600-056.1 (9-63) AEC-DE RICHLAND WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 234
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6290		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- DR AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 11/6-11/13/63 1100/0940	DATE RECEIVED 11/13/63	DATE COMPLETED		
ANALYSIS DESIRED I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , and Co^{60}				

	$\mu\text{C}/\text{ML}$
I^{131}	4.8×10^{-7}
P^{32}	7.5×10^{-6}
Zn^{65}	1.1×10^{-5}
Sc^{46}	8.8×10^{-7}
Cr^{51}	9.8×10^{-4}
Co^{60}	$<6 \times 10^{-7}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

CC: AP BINDER - FILE

PO Jackson/RDS
1-15-64

GROUP I
EXCLUDED FROM AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

(AFTER FILL-IN)

DECLASSIFIED

BD-7600-056.1 (9-63) AEC-GE RICHLAND WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 235
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6291		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- H AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 11/6-11/13/63 1100/0955	DATE RECEIVED 11/13/63	DATE COMPLETED		
ANALYSIS DESIRED I ¹³¹ , p ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μC/ML</u>
I ¹³¹	$1.2 \times 10^{-7} \pm 5.6 \times 10^{-8}$
p ³²	$2.0 \times 10^{-7} \pm 7.4 \times 10^{-8}$
Zn ⁶⁵	1.4×10^{-6}
Sc ⁴⁶	$< 1.5 \times 10^{-7}$
Cr ⁵¹	9.1×10^{-7}
Co ⁶⁰	$< 3 \times 10^{-7}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

CC: AP BINDER - FILE

PO Jackson/RJB
1-15-64

GROUP I
EXCLUDED FROM AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

DECLASSIFIED

(AFTER FILL-IN)

SD-7600-056.1 (9-63) REC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 236
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6292		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- F AREA				
REQUESTED BY R. B. Fall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 11/6-11/13/63 1120-1015	DATE RECEIVED 11/13/63	DATE COMPLETED		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

μC/ML

I ¹³¹	$7.5 \times 10^{-8} \pm 5.5 \times 10^{-8}$
P ³²	9.5×10^{-7}
Zn ⁶⁵	5.4×10^{-6}
Sc ⁴⁶	2.7×10^{-7}
Cr ⁵¹	1.3×10^{-4}
Co ⁶⁰	$< 2 \times 10^{-7}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME
OF INTEGRATION PERIOD.

/bbm

CC: AP BINDER - FILE

PO Jackson/RDS
1-15-64

GROUP I
EXCLUDED FROM AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

(AFTER FILL-IN)

DECLASSIFIED

SD-7600-056.1 (9-63) REC-GE RICHLAND WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 237
REQUESTOR'S SAMPLE NO.		HL RADIOLOGICAL ANALYSIS		
SAMPLE DESIGNATION		ANALYSIS NO. 6295		
INTEGRATED EFFLUENT WATER				
SAMPLE SITE				
107 BASIN, 100- F AREA				
REQUESTED BY	AREA	BLDG.	PHONE	
R. B. Hall	300	3746	3772	
DATE - TIME SAMPLED	DATE RECEIVED	DATE COMPLETED		
11/13-11/20/63 1015/1035	11/20/63			
ANALYSIS DESIRED				
I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μC/ML</u>
I ¹³¹	2.0×10^{-7}
P ³²	1.8×10^{-6}
Zn ⁶⁵	5.4×10^{-6}
Sc ⁴⁶	2.3×10^{-7}
Cr ⁵¹	2.2×10^{-4}
Co ⁶⁰	$<2 \times 10^{-7}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

CC: AP BINDER - FILE

PO Jackson/RDS
1-15-64

GROUP I
EXCLUDED FROM AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

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(AFTER FILL-IN)

SD-7600-096.1 (9-63) AEC-DE RICHLAND WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 238
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6296		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- H AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 11/13-11/20/63 0955/1020	DATE RECEIVED 11/20/63	DATE COMPLETED		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μC/ML</u>
I ¹³¹	$7.0 \times 10^{-8} \pm 5.3 \times 10^{-8}$
P ³²	$1.4 \times 10^{-7} \pm 5.2 \times 10^{-8}$
Zn ⁶⁵	1.3×10^{-6}
Sc ⁴⁶	$<1.5 \times 10^{-7}$
Cr ⁵¹	8.4×10^{-7}
Co ⁶⁰	$<3 \times 10^{-7}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

CC: AP BINDER - FILE

PO Jackson/RDS
1-15-64

GROUP I
EXCLUDED FROM AUTOMATIC DOWNGRADING
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(AFTER FILL-IN)

BD-7600-056.1 (9-63) REC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 239
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6297		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- C AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 11/13-11/20/63 0920/0920	DATE RECEIVED 11/20/63	DATE COMPLETED		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μC/ML</u>
I ¹³¹	3.0×10^{-7}
P ³²	4.3×10^{-6}
Zn ⁶⁵	1.4×10^{-5}
Sc ⁴⁶	1.5×10^{-6}
Cr ⁵¹	6.8×10^{-4}
Co ⁶⁰	$<6 \times 10^{-7}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

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PO Jackson/RDS
1-15-64

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BD-7600-056, I (9-63) AEC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 240
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO. 6298		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- DR AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3746	PHONE 3772	
DATE - TIME SAMPLED 11/13-11/20-63 0940/1000	DATE RECEIVED 11/20/63	DATE COMPLETED		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<u>μC/ML</u>
I ¹³¹	3.0×10^{-7}
P ³²	1.0×10^{-5}
Zn ⁶⁵	2.2×10^{-5}
Sc ⁴⁶	8.8×10^{-6}
Cr ⁵¹	6.4×10^{-4}
Co ⁶⁰	$<8 \times 10^{-7}$

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

CC: AP BINDER - FILE

PO Jackson/RDS
1-15-64

GROUP 1
EXCLUDED FROM AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

(AFTER FILL-IN)

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BD-7600-056.1 (9-63) AEC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 241
REQUESTOR'S SAMPLE NO.		HL RADIOLOGICAL ANALYSIS		
SAMPLE DESIGNATION		INTEGRATED EFFLUENT WATER		
SAMPLE SITE				
107 BASIN, 100- B AREA				
REQUESTED BY	AREA	BLDG.	PHONE	
R.3. Hall	300	3706		
DATE - TIME SAMPLED	DATE RECEIVED	DATE COMPLETED		
Below				
ANALYSIS DESIRED				
I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	PC µS/ML							
	8-12	8-12	8-19	8-26	9-02	9-09	9-16	9-23
I ¹³¹	8-19	8-19	8-26	9-02	9-09	9-16	9-23	9-30
	1.89	1.711	3.151	1.44	1.191	.995	12.5	1.21
P ³²	31.6	5.63	13.4	10.8	8.14	9.92	10.1	13.0
Zn ⁶⁵	33.1	11.1	27.6	25.5	18.2	16.3	25.7	20.8
Sc ⁴⁶	39.1	2.76	13.6	14.1	6.58	4.88	8.08	5.67
Cr ⁵¹	621	347	624	410	390	751	660	945
Co ⁶⁰	1.50	.631	.90	.747	.545	.427	3.58	.738

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

CC: AP BINDER - FILE

GROUP I
EXCLUDED FROM AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

PFA

(AFTER FILL-IN)

DECLASSIFIED

BD-7600-056.1 (9-63) AEC-GE RICHLAND, WASH.

HW-75958-RD		ANALYTICAL REPORT		PAGE 212
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO.		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- C AREA				
REQUESTED BY R.B. Hall	AREA 300	BLDG. 3706	PHONE	
DATE - TIME SAMPLED Below	DATE RECEIVED	DATE COMPLETED		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	PC #C/ML							
	8-12	8-12	8-19	8-26	9-2	9-9	9-16	9-23
I ¹³¹	8-19	8-19	8-26	9-02	9-9	9-16	9-23	9-30
	.508	.531	.527	.546	.432	.702	.495	.555
P ³²	1.88	16.1	14.2	14.3	10.8	12.6	9.27	14.4
Zn ⁶⁵	5.26	15.7	16.8	27.0	23.3	17.6	19.4	22.5
Sc ⁴⁶	.290	6.77	4.06	5.78	7.59	1.57	3.34	4.26
Cr ⁵¹	168	1180	901	912	685	1080	911	860
Co ⁶⁰	.436	.182	.418	.404	.422	.434	.235	.406

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

CC: AP BINDER - FILE

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AND DECLASSIFICATION

P/5-

BD-7600-056.1 (9-63) AEC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 243
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO.		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- D AREA				
REQUESTED BY T.J. Hall	AREA 300	BLDG. 3706	PHONE	
DATE - TIME SAMPLED Below	DATE RECEIVED	DATE COMPLETED		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	pc MC/ML						
	8-12	8-19	8-26	9-02	9-09	9-16	9-23
I ¹³¹	8-19	8-26	9-02	9-09	9-16	9-23	9-30
	.482	.427	.056	.420	.449	.512	.417
P ³²	10.8	11.4	11.3	11.8	7.34	7.45	7.69
Zn ⁶⁵	10.6	10.3	12.5	11.8	12.0	12.2	8.31
Sc ⁴⁶	.829	.923	2.76	4.14	56.2	7.12	1.19
Cr ⁵¹	438	.501	497	441	358	516	440
Co ⁶⁰	.277	.225	.270	.251	.336	.748	.126

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME
OF INTEGRATION PERIOD.

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AND DECLASSIFICATION

DHL

BD-7600-056.1 (9-63) AEC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE <u>214</u>
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO.		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- <u>DR</u> AREA				
REQUESTED BY R.3. Hall	AREA 300	BLDG. 3706	PHONE	
DATE - TIME SAMPLED Below	DATE RECEIVED	DATE COMPLETED		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	<div> <div>29</div> <div>μCi/ML</div> </div>						
	8-12	8-19	8-26	9-02	9-09	9-16	9-23
I ¹³¹	<u>8-19</u>	<u>8-26</u>	<u>9-02</u>	<u>9-09</u>	<u>9-16</u>	<u>9-23</u>	<u>9-30</u>
	.036	.520	.536	.501	1.94	.480	.470
P ³²	2.66	4.04	3.55	3.55	2.71	1.95	2.01
Zn ⁶⁵	14.3	9.43	10.5	9.73	20.5	8.28	15.6
Sc ⁴⁶	1.36	.903	.937	1.80	1.42	.574	.604
Cr ⁵¹	346	398	395	335	209	314	234
Co ⁶⁰	.451	.503	.243	.336	.661	.231	.360

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME
OF INTEGRATION PERIOD.

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BD-7600-056, I (9-63) REC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 245
REQUESTOR'S SAMPLE NO.		ANALYSIS NO.		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- F AREA				
REQUESTED BY R.B. Hall	AREA 300	BLDG. 3706	PHONE	
DATE - TIME SAMPLED	DATE RECEIVED	DATE COMPLETED		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	DC ML						
	8-12	8-19	8-26	9-02	9-09	9-16	9-23
I ¹³¹	<u>8-19</u>	<u>8-26</u>	<u>9-02</u>	<u>9-09</u>	<u>9-16</u>	<u>9-23</u>	<u>9-30</u>
	.246	.712	.752	2.37	.415	.435	.360
P ³²	6.60	23.5	6.00	9.32	8.06	23.5	54.5
Zn ⁶⁵	8.30	15.9	16.2	17.2	15.8	20.2	35.0
Sc ⁴⁶	1.65	3.97	1.45	.953	2.415	8.78	21.6
Cr ⁵¹	294	383	349	325	275	408	610
Co ⁶⁰	.358	.555	.809	1.16	.626	.900	2.31

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

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AND DECLASSIFICATION

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(AFTER FILL-IN)

BD-7600-056.1 (9-63) AEC-GE RICHLAND, WASH.

HW-75958-RD		ANALYTICAL REPORT		PAGE 21.6
REQUESTOR'S SAMPLE NO.		HL RADIOLOGICAL ANALYSIS		
ANALYSIS NO.				
SAMPLE DESIGNATION				
INTEGRATED EFFLUENT WATER				
SAMPLE SITE				
107 BASIN, 100- H AREA				
REQUESTED BY	AREA	BLDG.	PHONE	
R.B. Hall	300	3706		
DATE - TIME SAMPLED	DATE RECEIVED	DATE COMPLETED		
Below				
ANALYSIS DESIRED				
I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

	PC μC/ML						
	8-12	8-19	8-26	9-02	9-09	9-16	9-23
I ¹³¹	<u>8-19</u> .130	<u>8-26</u> .0923	<u>9-02</u> To	<u>9-09</u> 0.155	<u>9-16</u> .171	<u>9-23</u> .150	<u>9-30</u> .500
P ³²	.207	.200	sample "	.341	.199	.351	.536
Zn ⁶⁵	.242	.191	"	.357	.137	.190	.330
Sc ⁴⁶	<.06	<.06	"	<.06	<.06	<.06	.123
Cr ⁵¹	1.00	1.43	"	3.52	2.59	3.92	3.84
Co ⁶⁰	.169	.136	"	.132	.185	.164	.185

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

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BD-7600-056, I (9-63) AEC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 247
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO.		
SAMPLE DESIGNATION				
INTEGRATED EFFLUENT WATER				
SAMPLE SITE				
107 BASIN, 100- <u>KE</u> AREA				
REQUESTED BY		AREA	BLDG.	PHONE
R.B. Hall		300	3706	
DATE - TIME SAMPLED		DATE RECEIVED	DATE COMPLETED	
Below				
ANALYSIS DESIRED				
I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , and Co^{60}				

	pc µCi/ML		
	9-09	9-17	9-23
I^{131}	<u>9-17</u>	<u>9-23</u>	<u>9-30</u>
	.114	.120	.109
P^{32}	3.5	6.06	6.38
Zn^{65}	6.05	6.73	6.52
Sc^{46}	2.34	1.21	.840
Cr^{51}	76.1	115	116
Co^{60}	.060	.565	.0892

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

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(AFTER FILL-IN)

BD-7600-056.1 (9-63) AEC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE <u>218</u>
REQUESTOR'S SAMPLE NO.		ANALYSIS NO.		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- <u>K1</u> AREA				
REQUESTED BY R.B. Hall	AREA 300	BLDG. 3706	PHONE	
DATE - TIME SAMPLED Below	DATE RECEIVED	DATE COMPLETED		
ANALYSIS DESIRED I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , and Co^{60}				

	<u>pc</u> <u>pc/ML</u>	
	9-18	9-23
I^{131}	<u>9-23</u>	<u>9-30</u>
	.257	.253
P^{32}	7.32	7.14
Zn^{65}	5.85	5.42
Sc^{46}	1.08	.951
Cr^{51}	131	138
Co^{60}	.103	.0858

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME
OF INTEGRATION PERIOD.

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(AFTER FILL-IN)

BD-7800-056.1 (9-63) AEC-GE RICHLAND WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 249
REQUESTOR'S SAMPLE NO.		HL RADIOLOGICAL ANALYSIS		
ANALYSIS NO.				
SAMPLE DESIGNATION				
INTEGRATED EFFLUENT WATER				
SAMPLE SITE				
107 BASIN, 100- <u>F</u> AREA				
REQUESTED BY	AREA	BLDG.	PHONE	
R. B. Ball	300	3706		
DATE - TIME SAMPLED	DATE RECEIVED	DATE COMPLETED		
		1-29-65		
ANALYSIS DESIRED				
I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , and Co^{60}				

Sample No.	<u>6527</u>	<u>6545</u> <small>μC/ML</small>	<u>6559</u>	<u>6575</u>	<u>6598</u>
I^{131}	7.1×10^{-7}	6.1×10^{-7}	1.6×10^{-7}	4.6×10^{-7}	2.7×10^{-6}
P^{32}	1.0×10^{-5}	9.6×10^{-6}	8.2×10^{-6}	8.5×10^{-6}	5.6×10^{-6}
Zn^{65}	1.3×10^{-5}	1.3×10^{-5}	To be re-ported later	1.5×10^{-5}	2.1×10^{-5}
Sc^{46}	1.8×10^{-6}	1.6×10^{-6}		3.0×10^{-6}	2.1×10^{-6}
Cr^{51}	4.5×10^{-4}	3.9×10^{-4}		3.6×10^{-4}	2.5×10^{-4}
Co^{60}	3.9×10^{-7}	4.7×10^{-7}	"	7.1×10^{-7}	1.3×10^{-6}
Sampling Date: On	5-13-64	5-27-64	6-10-64	6-17-64	7-15-64
Off	5-20-64	6-3-64	6-17-64	6-24-64	7-22-64

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

PO Jackson/mm
2-1-65

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SD-7600-056.1 (9-63) REC-66 RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 250
REQUESTOR'S SAMPLE NO.		ANALYSIS NO.		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- <u>H</u> AREA				
REQUESTED BY <u>R. B. Hall</u>	AREA <u>300</u>	BLOG. <u>3706</u>	PHONE	
DATE - TIME SAMPLED	DATE RECEIVED	DATE COMPLETED <u>1-29-65</u>		
ANALYSIS DESIRED <u>^{131}I, ^{32}P, ^{65}Zn, ^{46}Sc, ^{51}Cr, and ^{60}Co</u>				

Sample No.	<u>6528</u>	<u>6546</u> <small>$\mu\text{C}/\text{ML}$</small>	<u>6553</u>	<u>6560</u>	<u>6576</u>
^{131}I	$<3.4 \times 10^{-8}$	2.0×10^{-7}	2.0×10^{-7}	6.7×10^{-8}	1.5×10^{-7}
^{32}P	$<7.6 \times 10^{-8}$	$<2.7 \times 10^{-7}$	2.5×10^{-7}	$<1.4 \times 10^{-7}$	3.4×10^{-7}
^{65}Zn	6.6×10^{-7}	3.4×10^{-7}	2.9×10^{-7}	3.2×10^{-7}	2.9×10^{-7}
^{46}Sc	$<6.0 \times 10^{-8}$	$<5.7 \times 10^{-8}$	$<7.1 \times 10^{-8}$	To be reported later.	$<6.9 \times 10^{-8}$
^{51}Cr	2.2×10^{-7}	6.8×10^{-7}	7.6×10^{-7}	"	2.3×10^{-6}
^{60}Co	1.6×10^{-7}	4.7×10^{-8}	5.0×10^{-7}	"	1.5×10^{-7}
Sample Date: On	5-13-64	5-27-64	6-3-64	6-10-64	6-17-64
Off	5-20-64	6-3-64	6-10-64	6-17-64	6-24-64

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

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AND DECLASSIFICATION

BD-7600-056.1 (9-63) AEC-GE RICHLAND WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 251
REQUESTOR'S SAMPLE NO.		HL RADIOLOGICAL ANALYSIS		
ANALYSIS NO.				
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- <u>DR</u> AREA				
REQUESTED BY <u>R. B. Hall</u>	AREA <u>300</u>	BLDG. <u>3706</u>	PHONE	
DATE - TIME SAMPLED	DATE RECEIVED	DATE COMPLETED <u>1-29-65</u>		
ANALYSIS DESIRED <u>I¹³¹, P³², Zn⁶⁵, Sc⁴⁶, Cr⁵¹, and Co⁶⁰</u>				

Sample No.	<u>6529</u>	<u>6544</u> <small>μC/ML</small>	<u>6552</u>	<u>6558</u>	<u>6574</u>
I ¹³¹	1.2×10^{-6}	5.9×10^{-7}	7.4×10^{-7}	2.0×10^{-7}	6.2×10^{-7}
P ³²	2.7×10^{-6}	6.4×10^{-6}	3.0×10^{-6}	3.0×10^{-6}	5.2×10^{-6}
Zn ⁶⁵	3.6×10^{-5}	1.5×10^{-5}	1.6×10^{-5}	To be reported later.	7.8×10^{-6}
Sc ⁴⁶	1.0×10^{-5}	3.6×10^{-6}	1.3×10^{-6}	"	1.3×10^{-6}
Cr ⁵¹	1.1×10^{-4}	2.1×10^{-4}	2.7×10^{-4}	"	4.5×10^{-4}
Co ⁶⁰	2.5×10^{-7}	3.6×10^{-7}	2.6×10^{-7}	"	2.5×10^{-7}
Sampling Date:	On <u>5-13-64</u>	<u>5-27-64</u>	<u>6-3-64</u>	<u>6-10-64</u>	<u>6-17-64</u>
	Off <u>5-20-64</u>	<u>6-3-64</u>	<u>6-10-64</u>	<u>6-17-64</u>	<u>6-24-64</u>

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

PO Jackson/mm
2-1-65

CC: AP BINDER - FILE

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(AFTER FILL-IN)

BD-7600-056.1 (9-63) AEC-GF RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE <u>252</u>
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO.		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- <u>B</u> AREA				
REQUESTED BY <u>R. B. Hall</u>	AREA <u>300</u>	BLDG. <u>3706</u>	PHONE	
DATE - TIME SAMPLED	DATE RECEIVED	DATE COMPLETED <u>1-29-65</u>		
ANALYSIS DESIRED <u>I¹³¹, P³², Zn⁶⁵, Sc⁴⁶, Cr⁵¹, and Co⁶⁰</u>				

Sample No.	<u>6530</u>	<u>6542</u>	<u>6550</u>	<u>6556</u>	<u>6595</u>
I ¹³¹	1.3 x 10 ⁻⁶	4.2 x 10 ⁻⁶	8.4 x 10 ⁻⁷	1.5 x 10 ⁻⁷	2.5 x 10 ⁻⁷
P ³²	7.6 x 10 ⁻⁶	1.0 x 10 ⁻⁵	2.1 x 10 ⁻⁵	2.4 x 10 ⁻⁵	7.7 x 10 ⁻⁶
Zn ⁶⁵	4.4 x 10 ⁻⁵	2.2 x 10 ⁻⁵	1.5 x 10 ⁻⁵	To be reported later.	3.9 x 10 ⁻⁵
Sc ⁴⁶	2.7 x 10 ⁻⁶	2.3 x 10 ⁻⁶	1.6 x 10 ⁻⁶	"	7.5 x 10 ⁻⁶
Cr ⁵¹	9.7 x 10 ⁻⁵	2.3 x 10 ⁻⁴	3.7 x 10 ⁻⁴	"	2.6 x 10 ⁻⁴
Co ⁶⁰	6.5 x 10 ⁻⁷	1.4 x 10 ⁻⁶	4.5 x 10 ⁻⁷	"	2.3 x 10 ⁻⁶
Sampling Date:	On 5-13-64	5-27-64	6-3-64	6-10-64	7-15-64
	Off 5-20-64	6-3-64	6-10-64	6-17-64	7-22-64

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

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PO Jackson/mm
2-1-65

CC: AP BINDER - FILE

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(AFTER FILL-IN)

BD-7600-056.1 (9-63) REC-68 RICHLAND WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE <u>253</u>
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO.		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- <u>C</u> AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3706	PHONE	
DATE - TIME SAMPLED	DATE RECEIVED	DATE COMPLETED 1-29-65		
ANALYSIS DESIRED I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , and Co^{60}				

Sample No.	<u>6543</u>	<u>6551</u>	<u>6573</u>	<u>6596</u>	<u>6606</u>
I^{131}	6.5×10^{-7}	4.1×10^{-7}	6.7×10^{-7}	6.2×10^{-8}	7.2×10^{-8}
P^{32}	7.8×10^{-6}	2.9×10^{-6}	3.2×10^{-6}	2.7×10^{-6}	1.3×10^{-6}
Zn^{65}	2.3×10^{-5}	3.3×10^{-5}	9.1×10^{-6}	4.3×10^{-5}	3.0×10^{-5}
Sc^{46}	3.0×10^{-7}	6.4×10^{-7}	3.4×10^{-7}	2.5×10^{-6}	1.4×10^{-7}
Cr^{51}	1.1×10^{-4}	1.5×10^{-4}	6.2×10^{-5}	4.2×10^{-5}	1.6×10^{-5}
Co^{60}	2.8×10^{-7}	3.2×10^{-7}	2.6×10^{-7}	6.5×10^{-7}	9.8×10^{-7}
Sampling Date	5-27-64 6-3-64	6-3-64 6-10-64	6-17-64 6-24-64	7-15-64 7-22-64	7-22-64 7-29-64

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

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AND DECLASSIFICATION

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BD-7600-056.1 (9-63) AEC-GE RICHLAND, WASH.

HW-75958-RD		ANALYTICAL REPORT		PAGE 254
REQUESTOR'S SAMPLE NO.		HL RADIOLOGICAL ANALYSIS		
SAMPLE DESIGNATION		ANALYSIS NO.		
INTEGRATED EFFLUENT WATER				
SAMPLE SITE				
107 BASIN, 100- DR AREA				
REQUESTED BY	AREA	BLDG.	PHONE	
R. Hall	300	3706		
DATE - TIME SAMPLED	DATE RECEIVED	DATE COMPLETED		
		1-29-65		
ANALYSIS DESIRED				
I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

Sample No.	6597	6607 ^{μC/ML}	6617	6633	6669
I ¹³¹	1.4 x 10 ⁻⁶	8.2 x 10 ⁻⁷	1.6 x 10 ⁻⁵	3.0 x 10 ⁻⁶	4.7 x 10 ⁻⁷
P ³²	1.0 x 10 ⁻⁵	4.7 x 10 ⁻⁶	4.9 x 10 ⁻⁶	4.0 x 10 ⁻⁶	1.9 x 10 ⁻⁶
Zn ⁶⁵	1.8 x 10 ⁻⁵	1.3 x 10 ⁻⁵	3.0 x 10 ⁻⁵	2.2 x 10 ⁻⁵	1.5 x 10 ⁻⁵
Sc ⁴⁶	2.8 x 10 ⁻⁶	2.0 x 10 ⁻⁶	4.6 x 10 ⁻⁶	3.9 x 10 ⁻⁶	6.8 x 10 ⁻⁷
Cr ⁵¹	4.1 x 10 ⁻⁴	4.5 x 10 ⁻⁴	2.3 x 10 ⁻⁴	2.9 x 10 ⁻⁴	2.3 x 10 ⁻⁴
Co ⁶⁰	1.9 x 10 ⁻⁶	6.4 x 10 ⁻⁷	3.7 x 10 ⁻⁶	1.2 x 10 ⁻⁶	4.4 x 10 ⁻⁷
Sampling Date:	On 7-15-64	7-22-64	7-29-64	8-5-64	9-30-64
	Off 7-22-64	7-29-64	8-5-64	8-12-64	10-7-64

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

PO Jackson/~~WMM~~
2-1-65

CC: AP BINDER - FILE

GROUP I
EXCLUDED FROM AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

DECLASSIFIED

(AFTER FILL-IN)

BD-7600-056.1 (9-63) AEC-GE RICHLAND WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 255
REQUESTOR'S SAMPLE NO.		ANALYSIS NO.		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- <u>H</u> AREA				
REQUESTED BY <u>R. B. Hall</u>	AREA <u>300</u>	BLDG. <u>3706</u>	PHONE	
DATE - TIME SAMPLED	DATE RECEIVED	DATE COMPLETED <u>1-29-65</u>		
ANALYSIS DESIRED <u>I¹³¹, P³², Zn⁶⁵, Sc⁴⁶, Cr⁵¹, and Co⁶⁰</u>				

Sample No.	<u>6599</u>	<u>6609</u>	<u>6619</u>	<u>6635</u>	<u>6671</u>
I ¹³¹	5.0×10^{-8}	1.3×10^{-7}	9.8×10^{-8}	1.4×10^{-7}	1.7×10^{-7}
P ³²	2.9×10^{-7}	2.8×10^{-7}	1.9×10^{-7}	2.1×10^{-7}	3.0×10^{-7}
Zn ⁶⁵	3.6×10^{-7}	1.7×10^{-7}	1.5×10^{-7}	2.4×10^{-7}	4.0×10^{-7}
Sc ⁴⁶	2.4×10^{-8}	5.8×10^{-8}	2.5×10^{-8}	6.6×10^{-8}	1.1×10^{-7}
Cr ⁵¹	1.8×10^{-6}	1.3×10^{-6}	9.2×10^{-7}	1.1×10^{-6}	4.2×10^{-6}
Co ⁶⁰	3.4×10^{-7}	1.6×10^{-7}	2.3×10^{-7}	2.0×10^{-7}	3.4×10^{-7}
Sampling Date:	On 7-15-64	7-22-64	7-29-64	8-5-64	9-30-64
	Off 7-22-64	7-29-64	8-5-64	8-12-64	10-7-64

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

PO Jackson/mm
2-1-65

CC: AP BINDER - FILE

GROUP I
EXCLUDED FROM AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

~~SECRET~~
(AFTER FILL-IN)

DECLASSIFIED

BD-7600-056.1 (9-63) AEC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 256
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO.		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- <u>B</u> AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3706	PHONE	
DATE - TIME SAMPLED	DATE RECEIVED	DATE COMPLETED 1-29-65		
ANALYSIS DESIRED I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , and Co^{60}				

Sample No.	6605	6615 ^{μC/ML}	6629	6630	6686
I ¹³¹	7.0×10^{-8}	4.9×10^{-7}	4.3×10^{-7}	4.7×10^{-7}	3.4×10^{-6}
P ³²	9.8×10^{-6}	1.2×10^{-5}	8.5×10^{-6}	1.5×10^{-5}	2.3×10^{-5}
Zn ⁶⁵	1.0×10^{-4}	9.0×10^{-6}	7.3×10^{-6}	2.2×10^{-5}	To be reported later
Sc ⁴⁶	2.1×10^{-5}	2.4×10^{-6}	3.1×10^{-6}	To be reported later.	"
Cr ⁵¹	1.3×10^{-4}	3.5×10^{-4}	4.7×10^{-4}	"	"
Co ⁶⁰	9.4×10^{-7}	3.6×10^{-7}	2.7×10^{-7}	"	"
Sampling Date: On	7-22-64	7-29-64	8-5-64	8-5-64	10-14-64
Off	7-29-64	8-5-64	8-12-64	8-12-64	10-21-64

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

PO Jackson/~~mmmm~~
2-1-65

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GROUP I
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AND DECLASSIFICATION

(AFTER FILL-IN)

DECLASSIFIED

BD-7600-056.1 (9-63) AEC-GE RICHLAND, WASH.

HW-75958-RD		ANALYTICAL REPORT		PAGE 257
REQUESTOR'S SAMPLE NO.		ANALYSIS NO.		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- <u>F</u> AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3706	PHONE	
DATE - TIME SAMPLED	DATE RECEIVED	DATE COMPLETED 1-29-65		
ANALYSIS DESIRED I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , and Co^{60}				

Sample No.	6608	6618 ^{μC/ML}	6634	6670	6678
I^{131}	8.2×10^{-7}	4.4×10^{-7}	3.5×10^{-7}	2.2×10^{-7}	2.9×10^{-7}
P^{32}	4.9×10^{-6}	5.2×10^{-6}	3.2×10^{-6}	1.7×10^{-5}	6.0×10^{-6}
Zn^{65}	1.2×10^{-5}	1.1×10^{-5}	1.7×10^{-5}	To be reported later.	1.2×10^{-5}
Sc^{46}	1.9×10^{-6}	1.6×10^{-6}	1.2×10^{-6}	"	5.6×10^{-7}
Cr^{51}	3.1×10^{-4}	2.3×10^{-4}	2.6×10^{-4}	"	2.5×10^{-4}
Co^{60}	8.1×10^{-7}	6.1×10^{-7}	3.7×10^{-7}	"	2.8×10^{-7}
Sampling Date:	On 7-22-64	7-29-64	8-5-64	9-30-64	10-7-64
	Off 7-29-64	8-5-64	8-12-64	10-7-64	10-14-64

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

PO Jackson/~~mm~~
2-1-65

CC: AP BINDER - FILE

GROUP 1
EXCLUDED FROM AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

DECLASSIFIED

BD-7600-056.1 (9-63) AEC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 258
REQUESTOR'S SAMPLE NO.		HL RADIOLOGICAL ANALYSIS		
SAMPLE DESIGNATION		ANALYSIS NO.		
INTEGRATED EFFLUENT WATER				
SAMPLE SITE				
107 BASIN, 100- C AREA				
REQUESTED BY	AREA	BLDG.	PHONE	
R. B. Hall	300	3706		
DATE - TIME SAMPLED	DATE RECEIVED	DATE COMPLETED		
		2-2-65		
ANALYSIS DESIRED				
I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

Sample No.	6616	6631	6632*	6668	6687
I ¹³¹	9.1 x 10 ⁻⁷	5.2 x 10 ⁻⁷	2.0 x 10 ⁻⁶	5.5 x 10 ⁻⁷	4.7 x 10 ⁻⁷
P ³²	1.8 x 10 ⁻⁶	1.1 x 10 ⁻⁶	6.7 x 10 ⁻⁶	2.8 x 10 ⁻⁵	1.5 x 10 ⁻⁵
Zn ⁶⁵	1.6 x 10 ⁻⁵	1.2 x 10 ⁻⁵	2.0 x 10 ⁻⁵	4.9 x 10 ⁻⁵	2.0 x 10 ⁻⁵
Sc ⁴⁶	1.3 x 10 ⁻⁶	5.8 x 10 ⁻⁷	6.0 x 10 ⁻⁶	6.0 x 10 ⁻⁵	5.0 x 10 ⁻⁶
Cr ⁵¹	8.6 x 10 ⁻⁵	1.2 x 10 ⁻⁴	5.5 x 10 ⁻⁶	2.9 x 10 ⁻³	9.1 x 10 ⁻⁴
Co ⁶⁰	6.5 x 10 ⁻⁷	4.2 x 10 ⁻⁷	7.0 x 10 ⁻⁷	1.0 x 10 ⁻⁶	3.8 x 10 ⁻⁷
Sample Date:	On 7-29-64	8-5-64	8-5-64	10-7-64	10-7-64
	Off 8-5-64	8-12-64	8-12-64	10-7-64	10-21-64

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

* Special sample. Significantly higher than usual quantities of Zr⁹⁵, Nb⁹⁵, Ru¹⁰³, and Ce¹⁴¹ were present. Evidence of particular activity was noted.

/bbm

 PO Jackson/mm
 2-3-65

CC: AP BINDER - FILE

 GROUP I
 EXCLUDED FROM AUTOMATIC DOWNGRADING
 AND DECLASSIFICATION

BD-7600-056.1 (9-63) REC-GE RICHLAND WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 259
REQUESTOR'S SAMPLE NO.		ANALYSIS NO.		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- <u>KE</u> AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3706	PHONE	
DATE - TIME SAMPLED	DATE RECEIVED	DATE COMPLETED 2-2-65		
ANALYSIS DESIRED I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , and Co^{60}				

Sample No.	<u>6672</u>	$\mu\text{C}/\text{ML}$ <u>6680**</u>	<u>6691*</u>	<u>6710</u>	<u>6726</u>
I^{131}	2.5×10^{-7}	lost	1.9×10^{-7}	2.1×10^{-7}	2.1×10^{-7}
P^{32}	1.6×10^{-6}	in	7.5×10^{-6}	8.1×10^{-6}	9.3×10^{-6}
Zn^{65}	7.6×10^{-6}	Process	1.8×10^{-5}	1.2×10^{-5}	1.0×10^{-5}
Sc^{46}	1.2×10^{-6}		1.5×10^{-5}	2.1×10^{-6}	7.8×10^{-7}
Cr^{51}	1.2×10^{-4}		2.2×10^{-4}	1.2×10^{-4}	1.2×10^{-4}
Co^{60}	1.5×10^{-7}		2.1×10^{-7}	1.3×10^{-7}	2.8×10^{-7}
Sample Date: On		10-7-64	10-14-64	10-21-64	10-28-64
Off	10-7-64	10-14-64	10-21-64	10-28-64	11-4-64

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

* Higher than usual quantities of Ru^{103} , Zr^{95} , Nb^{95} , and Ce^{141} were present.

Evidence of particulate activity was noted.

/bbm

CC: AP BINDER - FILE

PO Jackson/umm
2-3-65

** Duplicate samples contained significantly different amount of Ce^{51} , Sc^{46} , and Mn^{54} , apparently a problem with particulants. Sample was discarded before the problem was noted.

GROUP I
EXCLUDED FROM AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

(AFTER FILL-IN)

DECLASSIFIED

BD-7600-056, I (9-63) AEC-GE RICHLAND WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 260
REQUESTOR'S SAMPLE NO.		ANALYSIS NO.		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- DR AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3706	PHONE	
DATE - TIME SAMPLED	DATE RECEIVED	DATE COMPLETED 2-2-65		
ANALYSIS DESIRED I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , and Co^{60}				

Sample No.	<u>6677</u>	<u>6688</u>	<u>6723</u>	<u>6738</u>	<u>6750</u>
I^{131}	6.7×10^{-7}	6.9×10^{-7}	4.5×10^{-7}	5.0×10^{-7}	5.0×10^{-7}
P^{32}	1.9×10^{-6}	1.7×10^{-6}	2.2×10^{-6}	4.3×10^{-6}	5.7×10^{-6}
Zn^{65}	1.4×10^{-5}	1.0×10^{-5}	1.1×10^{-5}	1.5×10^{-5}	1.6×10^{-5}
Sc^{46}	3.9×10^{-7}	3.4×10^{-7}	7.3×10^{-7}	4.6×10^{-4}	2.3×10^{-7}
Cr^{51}	1.7×10^{-4}	1.9×10^{-4}	3.4×10^{-4}	8.0×10^{-7}	5.3×10^{-4}
Co^{60}	2.7×10^{-7}	1.1×10^{-7}	4.7×10^{-7}	4.2×10^{-7}	2.5×10^{-7}
Sample Date:	On 10-7-64	10-14-64	10-21-64	11-4-64	11-11-64
	Off 10-14-64	10-21-64	11-4-64	11-11-64	11-18-64

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

PO Jackson/mm
2-3-65

CC: AP BINDER - FILE

GROUP I
EXCLUDED FROM AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

(AFTER FILL-IN)

DECLASSIFIED

BD-7600-056.1 (9-63) AEC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 261
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO.		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- <u>H</u> AREA				
REQUESTED BY R. B Hall	AREA 300	BLDG. 3706	PHONE	
DATE - TIME SAMPLED	DATE RECEIVED	DATE COMPLETED 2-2-65		
ANALYSIS DESIRED I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , and Co^{60}				

Sample No.	<u>6679</u>	<u>6690</u>	<u>6709</u>	<u>6725</u>	<u>6740</u>
I^{131}	1.3×10^{-7}	2.0×10^{-7}	1.1×10^{-7}	8.1×10^{-8}	1.2×10^{-7}
P^{32}	2.1×10^{-7}	1.3×10^{-7}	2.4×10^{-7}	1.7×10^{-7}	2.7×10^{-7}
Zn^{65}	8.7×10^{-7}	1.5×10^{-7}	1.3×10^{-7}	2.2×10^{-7}	1.3×10^{-7}
Sc^{46}	3.5×10^{-8}	4.1×10^{-8}	1.3×10^{-7}	3.5×10^{-8}	$< 5.8 \times 10^{-8}$
Cr^{51}	2.4×10^{-7}	4.3×10^{-7}	4.2×10^{-7}	3.5×10^{-7}	4.5×10^{-7}
Co^{60}	2.1×10^{-7}	2.0×10^{-7}	1.4×10^{-7}	1.7×10^{-7}	9.9×10^{-7}
Sample Date: On	10-7-64	10-14-64	10-21-64	10-28-64	11-4-64
Off	10-14-64	10-21-64	10-28-64	11-4-64	11-11-64

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

 PO Jackson/mm
 2-3-65

CC: AP BINDER - FILE

 GROUP 1
 EXCLUDED FROM AUTOMATIC DOWNGRADING
 AND DECLASSIFICATION

DECLASSIFIED

BD-7600-056.1 (9-63) AEC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE <u>262</u>
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO.		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- <u>F</u> AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3706	PHONE	
DATE - TIME SAMPLED	DATE RECEIVED	DATE COMPLETED 2-2-65		
ANALYSIS DESIRED I^{131} , P^{32} , Zn^{65} , Sc^{46} , Cr^{51} , and Co^{60}				

Sample No.	<u>6629</u>	<u>6708</u>	<u>6724</u>	<u>6739</u>	<u>6751</u>
I^{131}	1.6×10^{-7}	2.8×10^{-7}	2.2×10^{-6}	2.2×10^{-6}	3.3×10^{-7}
P^{32}	3.9×10^{-6}	1.3×10^{-5}	4.8×10^{-6}	3.9×10^{-6}	5.4×10^{-6}
Zn^{65}	1.0×10^{-5}	1.9×10^{-5}	1.9×10^{-5}	1.4×10^{-5}	1.4×10^{-5}
Sc^{46}	9.5×10^{-7}	5.7×10^{-6}	1.5×10^{-6}	1.4×10^{-6}	8.8×10^{-7}
Cr^{51}	2.2×10^{-4}	3.6×10^{-4}	3.2×10^{-4}	2.6×10^{-4}	3.8×10^{-4}
Co^{60}	1.3×10^{-7}	5.9×10^{-7}	6.0×10^{-7}	3.5×10^{-7}	1.2×10^{-7}
Sample Date: On	10-14-64	10-21-64	10-28-64	11-4-64	11-11-64
Off	10-21-64	10-28-64	11-4-64	11-11-64	11-18-64

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

PO Jackson/mm
2-3-65

CC: AP BINDER - FILE

GROUP 1
EXCLUDED FROM AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

(AFTER FILL-IN)

DECLASSIFIED

BD-7600-056, I (9-63) AEC-GE RICHLAND WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 263
HL RADIOLOGICAL ANALYSIS				
REQUESTOR'S SAMPLE NO.		ANALYSIS NO.		
SAMPLE DESIGNATION INTEGRATED EFFLUENT WATER				
SAMPLE SITE 107 BASIN, 100- C AREA				
REQUESTED BY R. B. Hall	AREA 300	BLDG. 3706	PHONE	
DATE - TIME SAMPLED	DATE RECEIVED	DATE COMPLETED 2-2-65		
ANALYSIS DESIRED I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

Sample No.	<u>6707</u>	<u>6722</u>	<u>6737</u>	<u>6749</u>	<u>6765</u>
I ¹³¹	3.9 x 10 ⁻⁶	2.1 x 10 ⁻⁶	1.5 x 10 ⁻⁶	1.0 x 10 ⁻⁶	7.1 x 10 ⁻⁷
P ³²	6.1 x 10 ⁻⁶	1.2 x 10 ⁻⁵	1.6 x 10 ⁻⁵	1.1 x 10 ⁻⁵	1.5 x 10 ⁻⁵
Zn ⁶⁵	2.7 x 10 ⁻⁵	2.7 x 10 ⁻⁵	2.9 x 10 ⁻⁵	2.7 x 10 ⁻⁵	3.4 x 10 ⁻⁵
Sc ⁴⁶	6.5 x 10 ⁻⁶	1.4 x 10 ⁻⁵	6.6 x 10 ⁻⁶	7.3 x 10 ⁻⁶	4.7 x 10 ⁻⁶
Cr ⁵¹	4.4 x 10 ⁻⁴	1.1 x 10 ⁻³	9.5 x 10 ⁻⁴	9.5 x 10 ⁻⁴	1.2 x 10 ⁻³
Co ⁶⁰	1.9 x 10 ⁻⁶	6.8 x 10 ⁻⁷	9.7 x 10 ⁻⁶	3.2 x 10 ⁻⁷	8.8 x 10 ⁻⁷
Sample Date: On	10-21-64	10-28-64	11-4-64	11-11-64	11-18-64
Off	10-28-64	11-4-64	11-11-64	11-18-64	11-24-64

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

PO Jackson/mm
2-3-65

CC: AP BINDER - FILE

GROUP I
EXCLUDED FROM AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

(AFTER FILL-IN)

DECLASSIFIED

BD-7600-056.1 (9-63) AEC-GE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 264
REQUESTOR'S SAMPLE NO.		HL RADIOLOGICAL ANALYSIS		
ANALYSIS NO.				
SAMPLE DESIGNATION				
INTEGRATED EFFLUENT WATER				
SAMPLE SITE				
107 BASIN, 100- B AREA				
REQUESTED BY	AREA	BLDG.	PHONE	
R. B. Hall	300	3706		
DATE - TIME SAMPLED	DATE RECEIVED	DATE COMPLETED		
		2-2-65		
ANALYSIS DESIRED				
I ¹³¹ , P ³² , Zn ⁶⁵ , Sc ⁴⁶ , Cr ⁵¹ , and Co ⁶⁰				

Sample No.	6667*	6676* ^{UC/ML}	6721*	6736	6748*
I ¹³¹	7.8×10^{-7}	1.0×10^{-5}	7.2×10^{-7}	4.8×10^{-6}	1.2×10^{-6}
P ³²	2.5×10^{-5}	2.4×10^{-5}	1.1×10^{-5}	9.2×10^{-6}	8.3×10^{-6}
Zn ⁶⁵	2.5×10^{-5}	3.7×10^{-5}	1.8×10^{-5}	2.2×10^{-5}	2.1×10^{-5}
Sc ⁴⁶	1.0×10^{-5}	2.0×10^{-5}	7.3×10^{-6}	4.4×10^{-6}	2.0×10^{-6}
Cr ⁵¹	1.2×10^{-3}	1.2×10^{-3}	5.7×10^{-4}	5.1×10^{-4}	5.2×10^{-4}
Co ⁶⁰	2.0×10^{-7}	6.8×10^{-7}	1.1×10^{-6}	1.2×10^{-6}	3.0×10^{-7}
Sample Date:	On	10-7-64	10-28-64	11-4-64	11-11-64
	Off	10-7-64	11-4-64	11-11-64	11-18-64

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

* Higher than usual quantities of Zn⁹⁵, Nb⁹⁵, Ru¹⁰³, and Ce¹⁴¹ were present.

Evidence of particulate activity was noted.

/bbm

CC: AP BINDER - FILE

PO Jackson/mm
2-3-65

GROUP I
EXCLUDED FROM AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

DECLASSIFIED

(AFTER FILL-IN)

BD-7600-056.1 (9-63) AEC-QE RICHLAND, WASH

HW-75958-RD		ANALYTICAL REPORT		PAGE 265
REQUESTOR'S SAMPLE NO.		HL RADIOLOGICAL ANALYSIS		
ANALYSIS NO.				
SAMPLE DESIGNATION				
INTEGRATED EFFLUENT WATER				
SAMPLE SITE				
107 BASIN, 100- <u>KW</u> AREA				
REQUESTED BY	AREA	BLOG.	PHONE	
<u>R. B. Hall</u>	<u>300</u>	<u>3706</u>		
DATE - TIME SAMPLED	DATE RECEIVED	DATE COMPLETED		
		<u>2-2-65</u>		
ANALYSIS DESIRED				
<u>I¹³¹, P³², Zn⁶⁵, Sc⁴⁶, Cr⁵¹, and Co⁶⁰</u>				

Sample No.	<u>6711</u>	<u>6727</u>	<u>6742</u>	<u>6754</u>	<u>6771</u>
I ¹³¹	1.2 x 10 ⁻⁷	1.6 x 10 ⁻⁷	1.7 x 10 ⁻⁷	2.5 x 10 ⁻⁷	2.1 x 10 ⁻⁷
P ³²	4.2 x 10 ⁻⁶	5.6 x 10 ⁻⁶	6.0 x 10 ⁻⁶	7.3 x 10 ⁻⁶	1.1 x 10 ⁻⁵
Zn ⁶⁵	5.9 x 10 ⁻⁶	7.2 x 10 ⁻⁶	7.6 x 10 ⁻⁶	1.0 x 10 ⁻⁵	1.2 x 10 ⁻⁵
Sc ⁴⁶	1.3 x 10 ⁻⁶	1.2 x 10 ⁻⁶	1.0 x 10 ⁻⁶	9.2 x 10 ⁻⁷	9.5 x 10 ⁻⁷
Cr ⁵¹	7.5 x 10 ⁻⁵	7.1 x 10 ⁻⁵	9.7 x 10 ⁻⁵	1.1 x 10 ⁻⁴	1.2 x 10 ⁻⁴
Co ⁶⁰	2.6 x 10 ⁻⁸	9.5 x 10 ⁻⁸	9.1 x 10 ⁻⁸	<2.3 x 10 ⁻⁸	1.2 x 10 ⁻⁷
Sample Date: On	10-21-64	10-28-64	11-4-64	11-11-64	11-18-64
Off	10-28-64	11-4-64	11-11-64	11-18-64	11-24-64

NOTE (1) ALL RESULTS ARE CORRECTED FOR RADIOISOTOPIC DECAY TO THE "OFF" TIME OF INTEGRATION PERIOD.

/bbm

PO Jackson/mm
2-3-65

CC: AP BINDER - FILE

GROUP I
EXCLUDED FROM AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

DATE

FILMED

4 / 1 / 94

END