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J Lamb / 1034A

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CARBIDE AND CARBON CHEMICALS CORPORATION
Post Office Box P
Oak Ridge, Tennessee

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File Index KP-39

Date 2-7-49

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Series A

Contaminated Waste
Short Title of Document

UNCLASSIFIED

R. V. Maier
Author

CIRCULATION

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WCX-894 (Jan'48)

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INTER-COMPANY CORRESPONDENCE

(Inter Name) COMPANY Carbide And Carbon Chemicals Corporation LOCATION Post Office Box P Oak Ridge, Tenn.

To: Mr. R. G. Jordan
Location: K-303-7

Date: February 7, 1949

Attention

Answering Letter Date

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Subject: Contaminated Waste

Copy to: Messrs. J. R. Largey
J. P. Murray
M. F. Schwenn

Report Number KP-39

KP 39 L A

KP 39 1 A

PLANT RECORDS DEPT.
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FILE
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Listed in the attached tables are descriptions and values of the various types and classifications of solid and liquid contaminated materials now in storage in the K-25 area.

The values of these materials are based only on the amount of additional C-2835 product which should be realized if the entire amount of uranium is recovered and charged to the cascade.

Classification changed to: UNCLASSIFIED
(level and category)
By authority of: CG-PGD-4
(classification guide)
Sam W. Wohlfort 6/7/94
ADC or ADD signature (first reviewer) Date
Gary W. Hall 6/8/94
ADD signature (final reviewer) Date
QA reviewed by JOP-OK 7/26/95

PROCESS DIVISION
PROCESS ENGINEERING DEPARTMENT

R.V. Maier
R. V. Maier
Production Section

RAGreene, Jr./ga

Enclosure

Carbide and Carbon Chemicals Corporation Operating Contractor for the U.S. Atomic Energy Commission.

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This document has been approved for release to the public by:
Thomas W. Selby for A.S. Quist 9/1/95
Technical Information Officer Date
Oak Ridge K-25 Site

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TABLE I

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WEIGHTS AND VALUES OF CONTAMINATED MATERIALS

Materials	Classification	Total Grams "T"	Total Grams "X"	Total Value
Liquid	A	87,292.31	530.16	424
	B	131,752.07	1,371.51	11,231
	C	17,099.59	965.22	20,979
	D	10,752.26	2,275.39	67,008
	E	2,166.78	145.62	45,383
	L	1,143.68	617.18	19,484
Total Liquid		250,208.17	7,175.08	164,512
Solid	A	11,037,809.56	62,982.73	51,915
	B	2,120,664.24	21,674.23	150,385
	C	62,208.28	3,081.37	70,847
	D	19,108.68	4,463.79	130,538
	E	2,195.20	1,466.27	45,604
	L	18.32	16.67	530
Total Solid		13,242,004.28	93,685.06	449,820

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TABLE II

LIQUID MATERIALS

Type of Material	Classification	Net Weight Pounds	Net Volume Liters	GMS. T	GMS. X	Net Value	Value Per Pound Material	Value Per Liter Material	Total Value
Acetone	B	39.50		1.79	.01	.08	.002		.08
Alumium Nitrate	B		148.80	-	-	-			
	C		514.40	92.60	2.88	62.60		.122	62.60
Ammonium Carbonate	B		50.00	3.50	.02	.17		.003	.17
Alumina Leach Solution	A		232.90	1,126.97	5.64	4.51		.019	4.51
Trisodium Phosphate, Water	A		21.76	328.58	1.82	1.46		.007	
	E		38.08	5.54	4.10	127.83		3.357	
	L		176.42	.28	.27	8.59		.049	137.88
Trichloroethylene Solvent	D	81.50		3.70	.21	6.18		.008	6.18
Carbon Tetrachloride	A	144.00		158.52	.98	.78	.005		
	B	631.50		435.97	4.30	36.34	.058		
	C	610.35		404.15	11.04	239.95	.393		
	D	35.30		1.60	.33	9.72	.275		
	E	20.80		-	-	-			286.79
Carbon Tetrachloride, MFL	A	106.00		169.74	.87	.70		.007	
	B	678.60		367.57	2.93	24.76		.036	25.46
Caustic Solution	B		501.10	58.44	1.07	9.04		.018	9.04
Nitric Acid	B		747.70	-	-	-			
	D		3.70	.48	.15	4.42			
	L		1,535.59	96.63	64.31	1,917.46			1,921.88
Sulphuric Acid	B		741.00	4,424.75	32.18	271.95			271.95

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Type of Material	Classification	Net Weight Pounds	Net Volume Liters	GMS. T	GMS. A	Net Value	Found Material	Value Material	Total Value
Hydrochloric Acid and Sodium Carbonate	A		931.82	15,640.18	83.50	66.60		.072	
	B		2,336.68	2,679.14	24.57	207.64		.089	
	C		233.46	85.95	2.05	44.56		.191	
	D		254.44	68.08	1.86	54.78		.215	
	E		784.54	119.17	13.57	423.09		.539	
	L		1,268.58	326.47	22.58	718.45		.558	1,515.32
Filter Acid	A	9.60		-	-	-		-	-
Hydrochloric Acid, Water, Trisodium Phosphate	C		6.72	3.83	.16	3.48		.518	
	L		17.08	.85	.78	24.82		1.455	28.30
Methanol	B		1,507.90	90.48	.85	7.18		.005	
	C		416.50	26.72	1.81	39.34		.094	
	D		621.80	6.61	1.06	31.22		.050	
	E		3.20	.35	.28	8.73		2.728	86.47
Ferrocyanide Solution	A		208.00	2.08	.01	.01		0	.01
Filtrate	A		10,872.60	-	-	-		.024	
	B		35,737.50	9,234.40	101.38	856.76		.026	946.53
	C		3,451.20	57.89	4.13	89.77			
Freon	A	302.90		37.58	.19	.15	0		
	B	219.40		41.75	.47	3.97	.018		
	C	84.50		129.11	4.62	100.42	1.188		
	E	191.70		17.24	12.99	405.00	2.113		
	L	75.90		2.80	2.57	81.77	1.077		591.31
Freon and MFL	A	307.15		83.30	.53	.42	.001		
	B	-		-	-	-			
	C	2.40		.54	.01	.22	.092		
	E	25.90		1.17	.05	1.56	.060		
	L	9.70		.44	.40	13.73	1.392		[illegible]

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Type of Material	Classification	Net Weight Pounds	Net Volume Liters	GMS. T	GMS. X	Net Value	Value Per Pound Material	Value Per Liter Material	Total Value
Freon and T-MFL	A	71.50		3.24	.03	.03	0		.09
	B	2.80		.76	.01	.08	.029		
Freon and C-2144	E	98.60		114.82	87.05	2,714.04	27.526		2,714.04
MFL and C-2144	B	7.50		6.12	.09	.76	.101		.76
T-MFL	A	49.20		198.93	1.00	.80	.016		.80
Miscellaneous	L		12.85	3.08	.92	29.27		2.278	29.27
Laboratory Waste K-1303	L		52.02	3.64	3.34	106.27		2.043	106.27
Hydrocarbon Oil	A	4,164.80		6,574.83	37.27	29.82	.007		
	B	6,073.00		2,792.93	26.31	222.35	.037		
	C	220.70		28.27	1.05	22.82	.103		
	D	817.20		504.28	137.95	4,062.49	4.971		4,578.30
	E	158.50		9.49	7.68	240.82	1.519		
Kerosene, Hydrocarbon Oil	A	145.75		6.61	.04	.03	0		.03
MFL	A	853.80		8,186.56	41.67	33.34	.039		
	B	2.20		.30	-	-			
	C	120.60		666.27	23.03	500.56	4.151		575.18
	E	51.40		1.70	1.26	39.28	.764		
C-2144	A	49.70		-	-	-			
	B	77.20		237.99	2.80	23.66	.306		23.66
	Unknown	187.10		-	-	-			
C-2144, Hydrocarbon Oil	L	302.60		-	-	-			-

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Type Material	Classification	Net Weight Pounds	Net Volume Liters	GMS. T	GMS. X	Net Value	Value Per Pound Material	Value Per Liter Material	Total Value
Trichloroethylene Hydrocarbon Oil	B	359.50		375.05	4.29	36.25	.101		
	C	361.50		49.19	1.66	36.08	.100		
	E	11.40		.52	.44	13.72	1.204		
	Unknown	740.00		-	-	-			86.05
Trichloroethylene and MF Oil	B	10.91		27.18	.17	1.44	.132		
	C	605.20		27.45	.60	13.04	.022		14.48
Freon and Hydrocarbon Oil	A	56.70		17.85	.09	.07	.001		
	C	11.70		1.06	.04	.86	.073		
	E	14.50		.66	.49	15.28	1.054		
	Unknown	6.60		.30	-	-			16.21
Trichloroethylene, MFL, Hydrocarbon Oil	A	13.76		43.77	.31	.25	.018		
	B	558.00		25.31	.25	2.11	.004		2.36
Laboratory Waste	A		3,460.15	40,006.37	255.07	204.06		.059	
	B		4,591.60	26,236.63	239.11	2,020.72		.440	
	C		751.46	5,940.99	432.43	9,398.87		12.507	
	D		1,604.59	2,520.48	715.05	21,057.51		13.123	
	E		1,724.95	1,288.01	925.67	28,860.54		16.731	
	L		629.52	554.58	480.21	15,279.32		24.271	76,821.02
Sodium Fluoride and Hydrocarbon Oil	A	3.70		1.01	.01	.01	.003		.01
Sodium Sulphate and Sodium Nitrate Solution	C		289.60	110.05	3.41	74.12		.256	74.12
Nickel Disc Solution	C		1,362.60	490.53	33.01	717.47		.527	717.47

Waste Material	Classification	Net Weight Pounds	Net Volume Liters	GMS. T	GMS. X	Net Value	Value Per Pound Material	Value Per Liter Material	Total Value
Nickel Carbonate and Nickel Chloride	A		26.30	888.94	5.97	4.78		.182	4.78
Trichloroethylene, Water and Sodium Carbonate	B		42.24	15.73	.29	2.28		.054	2.28
Tergitol and Water	A		5.44	-	-				
	L		47.90	.36	.33	10.50		.219	10.50
Tergitol, Water and Trisodium Phosphate	A		29.60	-	-	-			
	L		40.40	-	-	-			
	Unknown		18.56	-	-	-			
Tergitol, Water and Sodium Chloride	Unknown		1.28	.01	-	-			
Metal Solution	A		12.80	.77	-	-			
	B		29.50	.56	-	-			
Potassium Bichromate	B		73.30	400.22	4.94	41.75		.570	41.75
Potassium Hydroxide	A		285.60	31.42	11.78	9.42		.033	
	B		4,210.14	5,179.55	74.33	628.18		.149	
	C		5,220.30	766.57	30.24	657.27		.125	
	D		305.00	45.75	17.16	505.34		1.657	1,660.10
Potassium Nitrate	B		-	-	-	-			
Mines Water	B		2,093.00	627.90	8.60	67.61		.032	67.61

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Type Material	Classification	Net Weight Pounds	Net Volume Liters	GMS. T	GMS. X	Net Value	Value Per Pound Material	Value Per Liter Material	Total Value
Soda Ash	A		-	-	-			.091	
	B		2,439.14	2,116.20	26.20	221.41		1,247	
	C		2,229.20	1,009.56	127.90	2,779.91		5.043	
	D		7,854.70	7,381.09	1,344.97	39,608.02		12.805	
	E		614.48	401.83	252.38	7,868.70		.492	50,619.95
	L		288.24	49.87	4.46	141.91			
Sodium Chloride Solution	A		-	-	-	-		.046	
	B		921.26	540.15	5.03	42.51		.203	
	C		1,403.66	400.98	13.09	284.51		.759	
	D		776.90	62.30	20.03	589.86		.695	
	E		2,066.82	61.46	46.06	1,436.06		.109	
	L		320.44	1.19	1.10	35.00			2,387.94
	Unknown		183.90	-	-	-			
Sodium Cyanide Solution	B		315.50	952.81	6.75	57.04		.181	57.04
Sodium Hydroxide Solution	A		33.00	2.64	.01	.01		0	
	C		744.00	74.40	6.32	137.37		.185	137.38
Sodium Nitrate Solution	A		10.88	.44	-	-		.536	
	C		175.30	33.73	4.32	93.90		.181	
	D		51.30	22.22	6.57	193.48		15.737	433.[illegible]
	L		9.28	4.91	4.59	146.04			
Sodium Uranate Solution	A	9.30		262.81	1.42	1.14	.123		
	B	233.70		36,691.43	408.60	3,453.08	14.776		
	C	11.52		.58	.02	.43	.037		3,454.65
Soda Lime Solution	B	35.20		916.47	11.34	95.83	2.722		95.83
Sodium Sulphate Solution	A		-	-	-	-		.141	
	B		4,307.70	6,988.04	72.10	609.32		.746	
	C		3,167.70	2,925.29	108.68	2,362.16		.334	3,361.38
	D		1,168.30	35.27	13.24	389.90			

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Type Material	Classification	Net Weight Pounds	Net Volume Liters	GMS. T	GMS. X	Net Value	Value Per Pound Material	Value Per Liter Material	Total Value
Sodium Fluoride Solution	A		123.55	1.39	.01	.01		0	
	B		.30	.01	2.48	-		.832	53.91
	C		64.80	20.09	2.49	53.90			
Trichloroethylene	A		64.58	108.27	.66	.53		.008	
	B		830.44	3,156.73	27.71	234.18		.282	
	C		25.28	8.66	.36	7.82		.309	
	D		14.08	2.39	.69	20.32		1.443	
	E		71.36	.92	.68	21.20		.297	
	L		51.84	.48	.45	14.32		.276	
	Unknown		55.90	1.17	-	-			298.37
Trisodium Phosphate	A		562.02	352.45	2.47	1.98		.004	
	B		1,094.94	957.52	7.44	62.88		.057	
	C		930.82	1,395.36	54.13	1,176.52		1.264	
	D		1,236.00	74.16	11.27	331.89		.269	
	E		187.08	3.69	2.77	86.36		.462	
	L		230.29	15.81	14.46	460.09		1.998	2,119.72
Tergitol, Sodium Carbonate Solution	L		117.70	5.77	1.04	33.09		.281	33.09
Uranium Chloride Solution	A		-	-	-	-			
	B		322.80	3,167.18	22.77	192.43		.596	192.43
Sodium Carbonate and Alumina Nitrate Solution	B		246.86	100.32	.79	6.68		.027	6.68
Ammonium Duranto Solution	L		17.92	51.25	2.41	52.38		2.923	52.38
Non-Processable Waste	C		1,812.80	72.51	2.91	63.25		.035	63.25

UNCLASSIFIED

SECRET

Type Material	Classification	Net Weight Pounds	Net Volume Liters	CMS. T	CMS. X	Net Value	Value Per Pound Material	Value Per Liter Material	Total Value
Water	A		2,383.98	9,198.68	54.99	43.99		.018	
	B		13,287.62	12,417.66	123.61	1,044.65		.079	
	C		5,463.76	1,625.25	57.64	1,252.81		.229	
	D		35.52	23.11	4.64	136.64		3.847	
	E		263.22	132.29	94.23	2,937.90		11.161	
	L		188.36	13.41	10.33	328.68		1.745	5,744.65
Wash Water	B		7,052.46	5,489.33	49.75	420.44		.060	
	C		3,009.04	570.64	28.27	614.45		.204	1,034.89
Sodium Carbonate Sodium Orthophosphate	Unknown		721.40	-	-	-			
Hydrochloric Acid, Torgitol, Sodium Chloride	D		10.56	.74	.21	6.19		.586	
	L		237.10	11.86	2.63	83.68		.353	89.87
C-716	B		112.60	1.15	.01	.08		.001	.08
C-714 and C-816	A	236.00		1,595.00	9.49	7.59	.032		7.59
C-714	A	105.00		309.58	1.98	1.58	.015		1.58
C-816 Solution	A	393.40		287.20	1.99	1.59	.004		
	B	780.00		55.74	.41	5.46	.044		5.05
C-816 and C-616	A	153.54		1,666.60	10.38	8.30	.054		
	B	252.50		664.28	4.74	40.06	.159		48.36
Hydrocarbon Oil and Freon	B	402.10		4,273.05	33.41	282.35	.702		
	C	69.30		81.37	6.92	150.41	2.180		
	E	87.25		7.92	5.94	185.20	2.123		617.96

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TABLE III

Type Material	Classification	Net Weight Pounds	GMS. T	GMS. X	Net Value	Value Per Pound Material	Total Value
2-4 Mesh Uncoated Alumina and 3-4 Mesh Activated Carbon	A	107,904.45	5,112,557.80	28,889.52	23,132.34	.214	
	B	15,661.75	398,695.57	3,049.00	9,960.12	.636	
	C	19.70	187.65	7.04	155.04	7.870	33,247.50
2-4 Mesh Uncoated Alumina and 6-8 Mesh Activated Carbon	A	9,898.35	399,935.27	1,971.28	705.15	.071	
	B	15,954.30	315,386.32	2,727.12	18,345.03	1.150	19,050.18
2-4 Mesh Cadmium Coated Alumina and 6-8 Mesh Activated Carbon	A	10,765.70	248,969.69	1,500.43	1,394.08	.129	
	B	22,389.55	263,123.71	4,086.08	36,800.16	1.644	
	C	6,132.30	14,598.01	815.72	19,707.63	3.214	
	D	725.80	1,094.63	247.67	7,236.32	9.970	
	E	1,328.00	402.03	297.27	9,224.50	6.946	74,362.69
4-8 Mesh Activated Alumina	A	2,402.50	24,887.39	144.35	110.22	.046	
	B	5,887.20	109,544.09	1,756.52	16,410.01	2.787	
	C	1,502.55	24,425.73	1,207.60	27,719.60	18.448	
	D	825.00	15,307.71	3,492.23	102,046.39	123.693	
	E	325.45	118.47	73.71	2,269.33	6.973	
	L	56.60	2.57	2.36	74.86	1.323	148,630.91
6-8 Mesh Activated Carbon	A	20,828.30	2,601,924.92	15,548.47	15,393.03	.739	
	B	7,017.75	455,222.69	3,824.23	16,880.06	2.405	
	C	342.35	1,514.80	74.97	1,702.68	4.974	
	E	3.40	1.54	1.16	36.02	10.594	34,011.79
2-4 Mesh Cadmium Coated Alumina and 4-8 Mesh Activated Alumina	A	128.90	9.55	.05	.04	.000	
	B	621.50	8,457.18	135.32	1,299.48	2.091	
	C	2,270.65	5,179.00	224.74	5,201.97	2.291	
	D	341.80	335.28	73.45	2,128.25	6.227	
	E	887.10	402.39	302.59	9,395.42	10.591	18,025.16

301

SECRET

Type Material	Classification	Net Weight Pounds	GMS. T	GMS. X	Net Value	Value Per Pound Material	Total Value
2-4 Mesh Uncoated Alumina and 4-8 Mesh Activated Alumina	A	2,313.75	55,413.78	383.27	514.83	.223	
	B	10,276.00	145,775.85	1,850.41	15,217.36	1.481	
	L	5.44	4.30	3.95	125.30	23.033	15,857.49
2-4 Mesh Uncoated Alumina and 2-4 Mesh Activated Carbon and 4-8 Mesh Activated Carbon	A	70,902.75	2,442,923.35	13,431.19	9,356.82	.132	9,356.82
Miscellaneous	A	4,310.60	137,158.70	904.25	1,141.02	.265	
	B	4,688.85	292,219.86	2,305.71	19,080.66	4.069	
	C	73.35	532.63	30.21	687.37	9.371	
	D	12.40	142.11	28.05	797.35	64.302	
	E	1.10	.05	.04	1.24	1.127	21,707.64
Sodium Fluoride Pellets	A	16.35	3.83	.02	.02	.001	.02
Ash	A	66.60	1,947.88	15.57	12.46	.187	
	B	1,806.27	26,444.69	249.70	2,110.21	1.168	
	C	671.30	940.03	57.69	1,258.24	1.874	
	D	545.44	322.74	86.09	2,535.26	4.646	5,916.17
Ammonia Salts	L	96.00	9.03	8.14	259.00	2.698	259.00
Alumina Oxide	B	7.50	4.76	.06	.51	.068	.51
Filter Cake	A	397.40	13,781.21	89.91	71.93	.181	
	B	9,402.35	100,489.07	1,643.15	13,886.23	1.477	
	C	3,354.50	6,450.41	288.08	6,261.42	1.867	
	D	326.35	1,600.92	394.73	11,624.40	35.619	
	E	175.80	997.60	748.21	23,327.69	132.694	
	L	50.40	2.28	2.09	66.50	1.319	55,238.20
MFL Filter Cake	A	18.30	-	-	-		
	C	1.60	337.47	28.68	623.36	389.600	623.36
	Unknown	22.40	-	-	-		
C-2144 Filter Cake	B	20.[illegible]	60	.01	.08	.004	.08
Grease	A	28.70	3,462.30	13.67	15.74	.548	
	Unknown	16.20	-	-	-		

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Type Material	Classification	Net Weight Pounds	GMS. T	GMS. K	Net Value	Value Per Pound Material	Total Value
Lime Floc Filter Cake	A	1,063.00	1,154.97	11.21	8.97	.008	
	B	587.60	366.88	3.70	31.27	.053	
	C	1,550.25	2,704.75	95.20	2,069.17	1.335	2,109.41
Laboratory Waste Solids	B	18.30	722.06	5.75	48.59	2.655	48.59
Uranium Tetrachloride	A	2.10	361.01	2.17	1.74	.829	1.74
UF_6 Flakes	A	13.10	2,799.04	14.08	11.26	.860	11.26
	C	-					
UF_6 and Dirt	B	313.00	113.62	.91	7.69	.025	7.69
	Unknown	120.00	-	-	-		
Potassium Hydroxide Sludge	E	78.20	273.12	43.29	1,349.70	17.260	1,349.70
Vacuum Cleaner Material	A	47.40	8,996.28	47.80	38.24	.807	
	B	774.70	4,097.29	36.46	308.13	.398	
	C	396.20	3,889.75	221.09	4,805.39	12.129	
	D	662.10	805.29	141.57	4,169.09	6.297	
	E	1.50	-	-	-		
	L	1.00	.14	.13	4.14	4.140	9,324.99
Carbon Ash	A	45.00	1,149.17	7.64	6.11	.136	6.11
Tetrafluoride Risidue	A	18.90	372.92	1.85	1.48	.078	1.48
Pit Sediment	C	138.20	1,448.06	30.15	655.61	4.742	[illegible]

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