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EBASCO SERVICES INCORPORATED

EBASCO

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June 3, 1987

Mr. Nigel A. Robinson
Remedial Project Manager
U.S. Environmental Protection Agency
26 Federal Plaza
New York, New York 10278

Subject: ASBESTOS DUMP SITE
SUMMARY OF ANALYTICAL RESULTS
WORK ASSIGNMENT NUMBER: 10-26A2.0
EPA CONTRACT NUMBER: 68-01-7250

Dear Mr. Robinson:

Enclosed is a revised summary of the analytical results Ebasco Services Incorporated (Ebasco) has received to date from the Contractor Laboratory Program (CLP) in support of the subject Work Assignment. The results of the organic analyses of the drum samples are included in the attached Tables. The inorganic results of the drum sample analyses will be summarized and forwarded to you as soon as they are received by Ebasco from the CLP.

If you have any questions or comments on the enclosed please contact me at (201) 460-6509.

Very truly yours,

William R Colvin

William R. Colvin
Site Manager

WC:vmt
enclosure

cf: D. Sachdev
J. Gabry

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ASBESTOS DUMP SITE
ENFORCEMENT OVERSIGHT
ANALYTICAL RESULTS

NOTES FOR TABLES

R	Spike sample recovery was not within control limits.
B	Value was greater than the instrument detection limit but less than the contract required detection limit.
*	Duplicate analyses not within control limits.
S	Value determined by Method of Standard Addition MBH.
E	Value estimated due to interference.
T	Tentatively Identified Compound.
J	Estimated value.
N	Instrument detection limit used because it was higher than the contract required detection limit.
L	Analyte also found in blank.

TABLE 1. ASBESTOS DUMP SITE
GROUNDWATER
ANALYTICAL RESULTS (ug/l)

Sample Location	Compound	Concentration	Notes
PW-8	Asbestos	none found	
PW-10	Beryllium	5	R
	Calcium	130,900	
	Chromium	10	
	Copper	17	B
	Iron	50	B
	Magnesium	69,800	
	Manganese	69	
	Potassium	500	B
	Silver	19	
	Sodium	110,000	E
	Zinc	102	
	Methylene Chloride	3.1	J
	Octadecanoic acid, butyl ester	35.0	T
	Unknown	19.0	T
	Pesticides	none found	
SWP-3	Aluminum	5,730	
	Barium	59	B
	Calcium	67,500	
	Chromium	21	
	Cobalt	3	B
	Iron	5,200	
	Lead	4	B
	Magnesium	5,030	
	Manganese	102	
	Mercury	6.3	
	Nickel	23	B
	Potassium	1,920	B
	Sodium	15,000	
	Vanadium	23	B
	Zinc	27	
	Dichlorodifluoromethane	92	T
	Unknown	41	T
	Trichlorofluoromethane	217	T
	Trimethylbenzene	12	T
	Phenol	11	
	4-Methylphenol	28	
	Benzoic Acid	37	J
	Diethylphthalate	2.8	J
	Unknown Hydrocarbon	41	T
	Hexadeconic Acid	26	T

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TABLE 1. ASBESTOS DUMP SITE (Cont'd)
GROUNDWATER
ANALYTICAL RESULTS (ug/l)

Sample Location	Compound	Concentration	Notes
SWP-3 (Cont'd)	Unknown	37	T
	Benzene propanoic acid	9	T
	Molecular Sulfur	12	T
	Volatiles	rejected	
	Pesticides	none found	
	Asbestos	30,000 fibers/cc	
SWP-5	Asbestos	27,000 fibers/CC	
	Volatiles	rejected	
	Unknown	9.6	T
	Dichlorofluoro-methane	21	T
	Trimethylbenzene	13	T
	Trichlorofluoro-methane	20	T
	Phenol	10	J
	Benzoic Acid	4	J
	Diethylphthalate	3.9	J
	Molecular Sulfur	12	T
	Pesticides	none found	
	Aluminum	2,830	
	Barium	40	B
	Calcium	62,100	
	Chromium	13	
	Cobalt	2	B
	Iron	2,400	
	Lead	26	
	Magnesium	2,940	B
	Manganese	53	
	Mercury	2.4	
	Potassium	2,760	B
	Sodium	16,500	
	Vanadium	15	B
	Zinc	148	

TABLE 1. ASBESTOS DUMP SITE (Cont'd)
GROUNDWATER
ANALYTICAL RESULTS (ug/l)

Sample Location	Compound	Concentration	Notes
NVR-3	Asbestos	5,700 fibers/cc	
	Aluminum	20,600	
	Arsenic	26	R
	Barium	186	B
	Calcium	21,100	
	Chromium	46	
	Cobalt	28	B
	Copper	77	
	Iron	54,900	
	Lead	28	
	Magnesium	17,000	
	Manganese	2,110	
	Nickel	48	
	Potassium	3,380	B
	Sodium	37,800	
	Vanadium	84	
	Zinc	89	
	Volatiles	rejected	
	Unknown	4	T
	Semivolatiles	none found	
	Pesticides	none found	

TABLE 2. ASBESTOS DUMP SITE
SURFACE WATER
ANALYTICAL RESULTS (ug/l)

Sample Location	Compound	Concentration	Notes
SW-10	Calcium	15,900	
	Iron	246	
	Magnesium	5,430	
	Manganese	63	
	Sodium	14,700	
	Acetone	7.5	J
	Pesticides	none found	
	Tetrachloroethene	160.0	J, T
	Asbestos	120 fibers/CC	
SW-13	Calcium	20,700	
	Iron	353	
	Magnesium	6,960	
	Manganese	187	
	Potassium	999	B
	Sodium	14,800	
	Acetone	7.8	J
	Pesticides	none found	
	Unknown	6.0	J, T
	Unknown	6.0	J, T
	Tetrachloroethene	95.0	J. T
	Asbestos	1,700 fibers/CC	

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TABLE 3. ASBESTOS DUMP SITE
SEDIMENT SAMPLE
ANALYTICAL RESULTS (mg/kg)

Sample Location	Compound	oncentration	Notes
SD-7	Asbestos	none found	
	Aluminum	11,000	
	Arsenic	2.1	B, N
	Barium	65	
	Beryllium	1.5	
	Calcium	1,890	
	Chromium	18	
	Cobalt	13	B
	Copper	43	
	Iron	23,600	
	Lead	75	
	Magnesium	2,600	
	Manganese	235	
	Mercury	0.15	
	Nickel	15	
	Potassium	379	B
	Sodium	736	B
	Vanadium	62	
	Zinc	194	
	Percent Solids	66.0%	
	2-Butanone	0.027	
	Benzoic Acid	0.073	J
	Naphthalene	1.09	
	2-Methylnaphthalene	2.7	
	Acenaphthylene	12	
	Acenaphthene	1.7	
	Dibenzofuran	0.51	J
	2,4-Dinitrotoluene	2.3	
	Fluorene	4.02	
	N-Nitrosodi-phenylamine(1)	2.09	
	Phenanthrene	97	L
	Anthracene	100	J
	di-n-butylphthalate	4.1	
	Fluoranthene	120	J, L
	Pyrene	2.5	L
	butylbenzylphthalate	0.98	
	benzo(a)Anthracene	39	
	Chrysene	19	
	benzo(b)Fluoranthene	43	
	benzo(k)Fluoranthene	42	
	benzo(a)Pyrene	24	
	indeno(1,2,3-cd)Pyrene	9.3	
	Dibenz(a,h)Anthracene	5.7	
	Benzo(g,h,i)Perylene	10.8	
	Pesticides	none found	

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TABLE 3. ASBESTOS DUMP SITE (Cont'd)
SEDIMENT SAMPLE
ANALYTICAL RESULTS (mg/kg)

Sample Location	Compound	Concentration	Notes
SD-7 (Cont'd)	2-Pentanone,4-hydroxy-4-Methyl	42	J, L
	Isomer of Dimethyl Naphthalene	8.4	J, T
	Unknown	6.7	J, T
	Isomer of Phenanthrene	29	J, T
	Isomer of Phenanthrene	6.9	J, T
	Isomer of Phenanthrene	9.6	J, T
	Isomer of Phenanthrene	28	J, T
	Unknown Phthalate	6.1	J, T
	Isomer of Phenyl Napthalene	13	J, T
	Isomer of Dimethyl Phenanthrene	6.9	J, T
	Isomer of Dimethyl Phenanthrene	22	J, T
	Unknown	5.8	J, T
	Isomer of Methyl Pyrene	22	J, T
	Isomer of Benzo(b) Fluorene	16	J, T
	Isomer of Methyl Pyrene	15	J, T
	Isomer of Terphenyl	19	J, T
	Isomer of Terphenyl	11	J, T
	Unknown	5.03	J, T
	Isomer of Methyl Chrysene	7.7	J, T
	Unknown	4.9	J, T
SD-8	Aluminum	11,700	
	Barium	82	
	Beryllium	1.2	
	Calcium	1,510	
	Chromium	20	
	Cobalt	6.4	B
	Copper	13	
	Iron	14,100	
	Lead	8.8	
	Magnesium	2,370	
	Manganese	112	
	Nickel	13	
	Potassium	418	B
	Sodium	426	B

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TABLE 3. ASBESTOS DUMP SITE (Cont'd)
SEDIMENT SAMPLE
ANALYTICAL RESULTS (mg/kg)

Sample Location	Compound	Concentration	Notes
SD-8 (Cont'd)	Vanadium	32	
	Zinc	77	
	Percent Solids	81.6%	
	2-Butanone	0.021	
	Pesticides	None found	
	Unknown	0.074	J, T
	Tetrachloroethene	3.8	J, T
	Unknown alkene	1.8	J, T
	Unknown hydrocarbon	5.6	J, T
	Unknown hydrocarbon	8.7	J, T
	2-Pentanone,4-hydroxy 4-methyl	57	J, T
	Unknown	3	J, T
	Unknown	1.2	J, T
	Unknown	1.2	J, T
	Asbestos	None found	

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TABLE 4. ASBESTOS DUMP SITE
SOIL SAMPLE
ANALYTICAL RESULTS (mg/kg)

Sample Location	Compound	Concentration	Notes
Boring GSD (6'-8')	Carbon Disulfide	0.004	J
	1,2-Dichloropropane	0.017	N
	Trichloroethene	0.013	J
	Benzene	0.002	J
	Toluene	0.027	L
	Chlorobenzene	0.036	
	3,3-Dichlorobenzidine	6.9	N
	Benzo(b)Fluoranthene	2.7	N
	indeno(1,2,3-cd) Pyrene	3.2	N
	Dibenz(a,h)Anthracene	3.9	N
	Benzo(g,h,i) Perylene	4.2	N
	Pesticides	none found	
	Trichlorofluoro-methane	1.0	J, T
	2-Propanol	0.05	J, T
	1-Propanol	0.01	J, T
	Unknown	0.01	J, T
	Hexane	0.03	J, T, L
	Hexanal	0.02	J, T, L
	Alpha-pinene	0.04	J, T
	2-Beta-pinene	0.02	J, T
	Toluene	2.0	J, T, L
	3-methyl-acetate 1-butanol	3.0	J, T, L
	Unknown	5.0	J, T, L
	4-Hydroxy-4-methyl 2-pentanone	100	J, T, L
	4-hydroxy-4methyl 2-pentanone	3.0	J, T, L
	Unknown	2.0	J, T
	5-methyl-2-hexanone	5.0	J, T, L
	4-methyl octane	4.0	J, T, L
	3-methyl octane	3.0	J, T, L
	Molecular sulfur	2.0	J, T
	Eicosane	1.0	J, T
	Unknown	2.0	J, T, L
	Unknown	1.0	J, T, L
	Unknown	1.0	J, T, L
	Unknown	1.0	J, T, L
	Unknown	1.0	J, T, L
	Aluminum	18,000	*
	Barium	167	R
	Calcium	17,300	*
	Chomium	47	S, R, *
	Cobalt	17	B, R
	Copper	32	R

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TABLE 4. ASBESTOS DUMP SITE (Cont'd)
SOIL SAMPLE
ANALYTICAL RESULTS (mg/kg)

Sample Location	Compound	Concentration	Notes
Boring GSD (6'-8') (Cont'd)	Iron	9,540	
	Lead	18	S, R, *
	Magnesium	6,240	
	Manganese	243	R, *
	Nickel	65	R
	Potassium	400	B
	Sodium	279	B
	Vanadium	56	B, R
	Zinc	86	R
	Percent Solids	43.6%	
Boring SWP 6 (4'-6')	Aluminum	22,000	
	Arsenic	15	
	Barium	123	B
	Beryllium	2	B
	Calcium	3,240	
	Chromium	32	
	Cobalt	23	B
	Copper	32	
	Iron	64,800	
	Lead	18	
	Magnesium	9,340	
	Manganese	604	R
	Mercury	0.24	
	Nickel	39	
	Potassium	2,890	B
	Vanadium	50	
	Zinc	81	
	Percent Solids	79.82%	
	2-Butanone	13	L
	Di-n-Butylphthalate	2,040	
	Pesticides	none found	
Boring 902 (9'-11')	Aluminum	15,400	
	Barium	103	B
	Calcium	190,000	
	Iron	19,300	
	Magnesium	59,600	
	Manganese	520	
	Nickel	308	R
	Sodium	11,800	
	Tin	120	B
	Percent Solids	15.66%	
	Volatiles	rejected	
	Pesticides	none found	

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TABLE 4. ASBESTOS DUMP SITE (Cont'd)
SOIL SAMPLE
ANALYTICAL RESULTS (mg/kg)

Sample Location	Compound	Concentration	Notes
Boring 902 (9'-11') (Cont'd)	Acetic acid, 1-methyl ethyl ester	0.29	T
	2-pentanone, 4-hydroxy, 4-methyl	34	T
	Unknown	0.52	T
Boring 906 (14'-16')	Aluminum	16,400	B
	Barium	96	
	Calcium	50,800	
	Iron	21,900	
	Magnesium	11,400	
	Manganese	530	
	Mercury	6.86	
	Nickel	35	R
	Silver	9	
	Sodium	5,430	
	Tin	25	B
	Zinc	78	R
	Percent Solids	67.84%	
	Volatiles	rejected	
	Semivolatiles	rejected	
	Pesticides	none found	
	Acetic acid	3.0	T
	Unknown	0.39	T
	C_9H_{20} Isomer	0.33	T
	C_9H_{20} Isomer	0.28	T
	Unknown	0.39	T
	$C_{14}H_{22}O$ Isomer	0.6	T
	Unknown	0.49	T
	Unknown	0.28	T

TABLE 5. ASBESTOS DUMP SITE
TRIP AND FIELD BLANK
ANALYTICAL RESULTS (ug/l)

Sample Location	Compound	Concentration	Notes
Trip Blank Number 1	Volatiles	rejected	
Trip Blank Number 2	Volatiles	rejected	
Trip Blank Number 3	Carbon disulfide	6	N
	1,2-dichloropropane	7	N
	Toluene	0.7	J
	Hexane	7	J, T
Trip Blank Number 4	1,1,2-Trichloro-		J, T
	1,2,2-TriFluoroethane	28	
Trip Blank Number 5	Acetone	12.0	
	Toluene	1.5	J
Trip Blank Number 6	Acetone	14.0	
Trip Blank Number 7	Methylene chloride	2.4	J
	Acetone	12.0	
	Benzene	0.7	J
Field Blank Number 1	Potassium	2,117	B
	Volatiles	rejected	
	Pesticides	none found	
	cyclobutane, ethyl-	86	T
	1-propene, 2-methyl	225	T
	C_9H_{20} Isomer	14	T
Field Blank Number 2	Potassium	2,117	B
	Sodium	8,020	
	Volatiles	rejected	
	Naphthalene	2	J
	Pesticides	none found	
	$C_6H_{12}O$ Isomer	11	T
	Cyclohexane	11	T
	Unknown	8	T
	Unknown	13	T

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TABLE 5. ASBESTOS DUMP SITE (Cont'd)
TRIP AND FIELD BLANK
ANALYTICAL RESULTS (ug/l)

Sample Location	Compound	Concentration	Notes
Field Blank Number 3	Carbon disulfide	6	N
	1,2-dichloropropane	7	N
	Toluene	0.5	J
	3,3-dichlorobenzidine	56	N
	benzo(b)Fluoranthene	22	N
	ideno(1,2,3-cd)Pyrene	26	N
	dibenz(a,h)Anthracene	32	N
	Benzo(g,h,i)Perylene	34	N
	Pesticides	none found	
	Methylcyclopentane	10	T, J
	Hexane	30	T, J, L
	Barium	7	B
	Calcium	96	B
	Iron	33	B
	Manganese	4	B
	Nickel	16	B
	Sodium	442	B
Field Blank Number 4	Iron	181	
	Sodium	8,130	
	1,1,2-trichloro-1,2,2 -trifluoroethane	19	J, T
	Unknown	4	J, T
	1,1,3-tetradecadiene	72	J, T, L
	Unknown	180	J, T, L
	Pesticides	none found	
Field Blank Number 5	Asbestos	none found	
	Acetone	12.0	
	bis(2-Ethylhexyl) Phthalate	220.0	L
	Pesticides	None found	
	Hexane	7.0	J, T
	Tetrachloroethene	120.0	J, T
	1,2-Benzenedicar-boxylic acid dioso octyl ester	31.0	J, T
	Lead	3	B
	Mercury	0.2	
	Zinc	33	N

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TABLE 5. ASBESTOS DUMP SITE (Cont'd)
TRIP AND FIELD BLANK
ANALYTICAL RESULTS (ug/l)

Sample Location	Compound	Concentration	Notes
Field Blank Number 6	Asbestos	28 fibers/CC	
	Volatiles	rejected	
	Unknown	4.8	T
	Methoxy substituted C4-C5	4.1	T
	Naphthalene	8.8	J
	2-Methylnaphthalene	3.2	J
	Unknown	8.9	T
	Trimethyl cyclopentanone	8.3	T
	Pesticides	none found	
	Chromium	5	B
	Cobalt	2	B
	Manganese	4	B

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TABLE 6. ASBESTOS DUMP SITE
SOLID DRUM SAMPLE
ANALYTICAL RESULTS (mg/kg)

Test Pit Number	Drum Number	Compound	Concentration	Notes
1	6	Methylene Chloride	7,000	B
		Chloroform	4.2	B
		Chlorobenzene	75	
		Methane, Trichlorodifluoro	820	J,T
		Unknown hydrocarbon	3,600	J,T
		Unknown hydrocarbon	2,200	J,T
		Unknown silane	16,000	J,T
		Unknown silane	26,000	J,T
		Unknown silane	14,000	J,T
		Unidentified compound	3,500	J,T
		Unidentified compound	2,300	J,T
		Unidentified compound	11,000	J,T
		Unidentified compound	3,400	J,T
1	6	DUPLICATE ANALYSIS		
		Methylene Chloride	2,300	B
		Acetone	200	B
		4-Methylphenol	18	J
		bis(2-ethylhexyl)phthalate	3.9	J
		Methane, Trichlorodifluoro	28	J,T
		Unknown polyether	10	J,T
		Unknown hydrocarbon	13	J,T
		Unidentified compound	47	J,T
		Unidentified compound	7.2	J,T
1	8	Methylene Chloride	740	B
		2-Butanone	16	
		Trichloroethene	19	
		Chlorobenzene	2	J
		Methane, Trichlorodifluoro	45	J,T
		Unknown silane	17	J,T
		Unknown silane	29	J,T
		Unknown silane	16	J,T
		Unidentified compound	15	J,T
		Unidentified compound	14	J,T

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TABLE 6. ASBESTOS DUMP SITE (Cont'd)
SOLID DRUM SAMPLE
ANALYTICAL RESULTS (mg/kg)

Test Pit Number	Drum Number	Compound	Concentration	Notes
2	23	Methylene Chloride	1,200	B
		Acetone	1,700	B
		Hexachlorobutadiene	25	
		Silicone artifact	1,000	J,T
		Unknown-molecular wt. 240	230	J,T
		Unknown polyether	120	J,T
		Unknown polyether	1,100	J,T
		Unknown polyether	440	J,T
		Unknown polyether	130	J,T
		Unknown polyether	490	J,T
		Unknown polyether	470	J,T
		Unknown polyether	200	J,T
		Unknown polyether	110	J,T
		Unknown polyether	500	J,T
		Unknown polyether	160	J,T
		Unknown polyether	130	J,T
		Unknown polyether	240	J,T
		Unknown polyether	100	J,T
		Unknown polyether	280	J,T
		Unknown polyether	60	J,T
		Unknown alcohol	900	J,T
		Unknown alcohol	64	J,T
		Unknown alcohol	150	J,T
		Unknown silane	240	J,T
		Unknown silane	380	J,T
		Unknown silane	200	J,T
		Benzoic Acid (phenyl methyl)-methyl ester	880	J,T
		4H-1 Benzo pyrene-4-one, dihydra-dihydroxy, -phenyl	230	J,T
		Unidentified compound	120	J,T
		Unidentified compound	59	J,T
		Unidentified compound	64	J,T
		Unidentified compound	130	J,T
		Unidentified compound	210	J,T
		Unidentified compound	68	J,T
		Unidentified compound	100	J,T
2	25	Methylene chloride	10,000	B
		Acetone	400	B
		Silicone artifact	290	J,T
		Methane, Trichlorofluoro	2,300	J,T
		Unknown hydrocarbon	5.2	J,T

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TABLE 6. ASBESTOS DUMP SITE (Cont'd)
SOLID DRUM SAMPLE
ANALYTICAL RESULTS (mg/kg)

Test Pit Number	Drum Number	Compound	Concentration	Notes
2	26	Methylene chloride	5,600	B
		Acetone	38	J,B
		Chloroform	22	J
		Chlorobenzene	150	
		bis(2-Ethylhexl)phthalate	3.1	J
		Methane, Dichlorofluoro	49	J,T
		Methane, Trichorofluoro	2,200	J,T
		Sulfur	12	J,T
		Phenol, Tetramethylbutyl	10	J,T
		Unknown fatty acid	11	J,T
		Unknown fatty acid	11	J,T
		Unknown fatty acid	12	J,T
		Unknown hydrocarbon	16	J,T
7	2	2-Butanone	5.1	
		butanoic acid, methyl ester	3	J,T
8	1	Methylene chloride	25,000	B
		Acetone	1,900	B
		Chloroform	130	J
		1,1,1-Trichloroethane	540	
		Trichloroethene	480	B
		Toluene	71,000	B
		Chlorobenzene	670	
		bis(2-Ethylhexyl)phthalate	38	
		Methane, Trichlorofluoro	17,000	J,T
		Cyclohexane	270	J,T
		Silicone artifact	1,500	J,T
		Benzene, chloro-	32	J,T
		2-Pentanamine, n-ethyl-4-methyl-	8.2	J,T
		Acetamide, n, n-dibutyl-	8.2	J,T
		1-phenanthrenecarboxylic acid, octrahydro	20	J,T
		1-phenanthrenecarboxylic acid, octrahydro	9.3	J,T
		Unknown hydrocarbon	9.8	J,T
		Unknown hydrocarbon	7.4	J,T
		Unknown hydrocarbon	19	J,T
		Unknown hydrocarbon	6.5	J,T
		Unknown halogenated organic	5.9	J,T
		Unknown PNA-MWT 240	88	J,T
		Unknown PNA-MWT 252	13	J,T
		Unknown PNA-MWT 252	6.2	J,T

TABLE 6. ASBESTOS DUMP SITE (Cont'd)
SOLID DRUM SAMPLE
ANALYTICAL RESULTS (mg/kg)

Test Pit Number	Drum Number	Compound	Concentration	Notes
8	1	Unidentified compound	36	J,T
	(Con't)	Unidentified compound	160	J,T
		Unidentified compound	410	J,T
		Unidentified compound	23	J,T
		Unidentified compound	7.6	J,T
		Unidentified compound	86	J,T
		Unidentified compound	13	J,T
		Unidentified compound	60	J,T
		Unidentified compound	18	J,T
		Unidentified compound	53	J,T
		Unidentified compound	82	J,T
		Unidentified compound	94	J,T

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TABLE 7. ASBESTOS DUMP SITE
LIQUID DRUM SAMPLE
ANALYTICAL RESULTS (mg/kg)

Test Pit Number	Drum Number	Compound	Concentration	Notes
1	7	Ethanol	2.7	J,T
		Methane, Trichlorofluoro	4	J,T
		Unidentified compound	3.9	J,T
		Butanoic Acid, Methyl Ester	3.4	J,T
		Unknown fatty acid	33	J,T
		Unknown alcohol	83	J,T
		Unknown polyether	55	J,T
		Unknown polyether	57	J,T
		Unknown polyether	15	J,T
		Unknown polyether	330	J,T
		Unknown polyether	220	J,T
		Unknown polyether	36	J,T
		Unknown polyether	18	J,T
		Unknown polyether	420	J,T
		Unknown polyether	89	J,T
		Unknown polyether	20	J,T
		Unknown polyether	34	J,T
		Unknown polyether	64	J,T
		Unknown polyether	26	J,T
		Unknown polyether	61	J,T
		Unidentified compound	20	J,T
2	22	Methylene Chloride	31	B
		1,4-Dioxane, Dimethyl	7.7	J,T
		Unidentified compound	18	J,T
		Unknown polyether	1,100	J,T
		Unknown polyether	1,600	J,T
		Unknown polyether	260	J,T
		Unknown polyether	2,400	J,T
		Unknown polyether	1,400	J,T
		Unknown polyether	330	J,T
		Unknown polyether	320	J,T
		Unknown polyether	110	J,T
		Unknown polyether	960	J,T
		Unknown polyether	1,300	J,T
		Unknown polyether	560	J,T
		Unknown polyether	26	J,T
		Unknown polyether	130	J,T
		Unknown polyether	390	J,T
		Unknown polyether	220	J,T
		Unknown polyether	27	J,T
		Unknown polyether	81	J,T
		Unknown polyether	20	J,T

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ASBESTOS DUMP SITE
ANALYTICAL RESULTS - SOIL/SEDIMENT

TRIP REPORT NUMBER	SAMPLE NUMBER	MATRIX	FRACTION	COMPOUND	CONCENTRATION	UNITS	QUALIFIER
MBG649	902.9-11	SO		%SOLIDS	15.66	MG/KG	
MBG649	902.9-11	SO		AL	15400.00	MG/KG	
MBG649	902.9-11	SO		BA	103.00	MG/KG	
MBG649	902.9-11	SO		CA	190000.00	MG/KG	
MBG649	902.9-11	SO		FE	19300.00	MG/KG	
MBG649	902.9-11	SO		MG	59000.00	MG/KG	
MBG649	902.9-11	SO		MN	520.00	MG/KG	
MBG649	902.9-11	SO		NA	11800.00	MG/KG	
MBG649	902.9-11	SO		NI	308.00	MG/KG	R
MBG649	902.9-11	SO		SN	120.00	MG/KG	
BG274	902.9-11	SO	BNA	1	290.00	UG/KG	← Acetic Acid, 1-Methylethyl Est
BG274	902.9-11	SO	BNA	2	34000.00	UG/KG	← 2-Pentanone, 4-hydroxy-4-meth
BG274	902.9-11	SO	BNA	U	520.00	UG/KG	
BG274	902.9-11	SO	VOA	REJ	0.00	UG/KG	
MBH064	906.14-16	SO		%SOLIDS	67.85	MG/KG	
MBH064	906.14-16	SO		AG	9.00	MG/KG	
MBH064	906.14-16	SO		AL	16400.00	MG/KG	
MBH064	906.14-16	SO		BA	96.00	MG/KG	D
MBH064	906.14-16	SO		CA	50800.00	MG/KG	
MBH064	906.14-16	SO		FE	21900.00	MG/KG	
MBH064	906.14-16	SO		HG	6.86	MG/KG	
MBH064	906.14-16	SO		MG	11400.00	MG/KG	
MBH064	906.14-16	SO		MN	30530.00	MG/KG	
MBH064	906.14-16	SO		NA	5430.00	MG/KG	
MBH064	906.14-16	SO		SN	25.00	MG/KG	D
MBH064	906.14-16	SO		ZN	78.00	MG/KG	R
BH218	906.14-16	SO	BNA	REJ	0.00	UG/KG	
BH218	906.14-16	SO	VOA	REJ	0.00	UG/KG	
MBG648	FB-1	QC		K	2117.00	UG/L	D
BG273	FB-1	QC	BNA	18	14.00	UG/L	← C6H12O Isomer
BG273	FB-1	QC	VOA	REJ	0.00	UG/L	
MBG650	FB-2	QC		K	2117.00	UG/L	D
MBG650	FB-2	QC		NA	8020.00	UG/L	
BH217	FB-2	QC	BNA	18	11.00	UG/L	← C6H12O Isomer
BH217	FB-2	QC	BNA	19	11.00	UG/L	← Cyclohexane
BH217	FB-2	QC	BNA	91-20-3	2.00	UG/L	← Naphthalene
BH217	FB-2	QC	BNA	U	8.00	UG/L	

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ASBESTOS DUMP SITE
ANALYTICAL RESULTS - SOIL/SEDIMENT

TRIP REPORT NUMBER	SAMPLE NUMBER	MATRIX	FRACTION	COMPOUND Code	CONCENTRATION	UNITS	QUALIFIER	Compound Name
BH217	FB-2	QC	BNA	U	13.00	UG/L		
BH217	FB-2	QC	VOA	REJ	0.00	UG/L		
BH220	FB-3	QC	BNA	191-24-2	34.00	UG/L	N	Benzo(g,h,i) Perylene
BH220	FB-3	QC	BNA	193-39-5	26.00	UG/L	N	Indeno(1,2,3-cd) Pyrene
BH220	FB-3	QC	BNA	205-99-2	22.00	UG/L	N	Benzo(b) Fluoranthene
BH220	FB-3	QC	BNA	53-70-3	32.00	UG/L	N	Dibenz(a,h) Anthracene
BH220	FB-3	QC	BNA	91-94-1	56.00	UG/L	N	3,3'-Dichlorobenzidine
BH220	FB-3	QC	VOA	108-88-3	0.50	UG/L	J	Toluene
BH220	FB-3	QC	VOA	14	10.00	UG/L	J	Methylcyclopentane
BH220	FB-3	QC	VOA	4	30.00	UG/L	J,B	Hexane
BH220	FB-3	QC	VOA	78-87-5	7.00	UG/L	N	1,2-Dichloropropane
BH223	FB-4	QC	BNA	17	72.00	UG/L	J	1,1,3-Tetradecadiene
BH223	FB-4	QC	BNA	U	180.00	UG/L	J	
BH223	FB-4	QC	VOA	14	19.00	UG/L	J	Methylcyclopentane
BH223	FB-4	QC	VOA	U	4.00	UG/L	J	
MBH067	FB-5	QC		FE	181.00	UG/L		
MBH069	FB-5	QC		HG	0.20	UG/L		
MBH067	FB-5	QC		MA	8130.00	UG/L		
MBH069	FB-5	QC		PB	3.00	UG/L	D	
MBH069	FB-5	QC		ZN	33.00	UG/L	N	
BH226	FB-5	QC	BNA	117-81-7	220.00	UG/L	B	bis(2-Ethylhexyl) Phthala
BH226	FB-5	QC	BNA	20	31.00	UG/L	J	1,2-Benzenedicarboxylic Acid, DIISO OCTYL ESTER
BH226	FB-5	QC	BNA	8	120.00	UG/L	J	Tetrachloroethane
BH226	FB-5	QC	VOA	4	7.00	UG/L	J	hexane
BH226	FB-5	QC	VOA	67-64-1	12.00	UG/L		acetone
BH221	GSD.6-8	SO	BNA	12	4200.00	UG/KG	N	Isomer of dimethyl Phenanth
BH221	GSD.6-8	SO	BNA	3	2000.00	UG/KG	J,B	Toluene
BH221	GSD.6-8	SO	BNA	4	3000.00	UG/KG	J,B	3-methyl-acetate 1-Butanol
BH221	GSD.6-8	SO	BNA	4	100000.00	UG/KG	J,B	" " " " "
BH221	GSD.6-8	SO	BNA	4	3000.00	UG/KG	J,B	" " " " "
BH221	GSD.6-8	SO	BNA	5	5000.00	UG/KG	J,B	5-methyl-2-hexanone
BH221	GSD.6-8	SO	BNA	6	4000.00	UG/KG	J,B	4-methyl octane
BH221	GSD.6-8	SO	BNA	7	3000.00	UG/KG	J,B	3-methyl octane
BH221	GSD.6-8	SO	BNA	7	1000.00	UG/KG	J	" "
BH221	GSD.6-8	SO	BNA	U	1000.00	UG/KG	J	
BH221	GSD.6-8	SO	BNA	U	5000.00	UG/KG	J,B	
BH221	GSD.6-8	SO	BNA	U	1000.00	UG/KG	J	

ASBESTOS DUMP SITE
ANALYTICAL RESULTS - SOIL/SEDIMENT

TRIP REPORT NUMBER	SAMPLE NUMBER	MATRIX	FRACTION	COMPOUND	CONCENTRATION	UNITS	QUALIFIER	
BH221	GSD.6-8	SO	BNA	U	2000.00	UG/KG	J	
BH221	GSD.6-8	SO	BNA	U	1000.00	UG/KG	J,B	
BH221	GSD.6-8	SO	BNA	U	2000.00	UG/KG	J,B	
BH221	GSD.6-8	SO	BNA	U	1000.00	UG/KG	J	
BH221	GSD.6-8	SO	VOA	1	1000.00	UG/KG	J	Trichloro Fluoro methane
BH221	GSD.6-8	SO	VOA	10	3200.00	UG/KG	N	INDENO (1,2,3,-CD) Pyrene
BH221	GSD.6-8	SO	VOA	108-88-3	270.00	UG/KG	B	Toluene
BH221	GSD.6-8	SO	VOA	108-90-7	36.00	UG/KG		chlorobenzene
BH221	GSD.6-8	SO	VOA	11	3900.00	UG/KG	N	Dibenz (A,H) Anthracene
BH221	GSD.6-8	SO	VOA	2	50.00	UG/KG	J	2 - propanol
BH221	GSD.6-8	SO	VOA	3	10.00	UG/KG	J	1 - propanol
BH221	GSD.6-8	SO	VOA	4	30.00	UG/KG	J	hexane
BH221	GSD.6-8	SO	VOA	5	20.00	UG/KG	J	hexanol
BH221	GSD.6-8	SO	VOA	6	40.00	UG/KG	J	(-) alpha - pinene
BH221	GSD.6-8	SO	VOA	7	20.00	UG/KG	J	2 - Beta - pinene
BH221	GSD.6-8	SO	VOA	71-43-2	2.00	UG/KG	J	Benzene
BH221	GSD.6-8	SO	VOA	75-15-0	4.00	UG/KG	J	Carbon disulfid
BH221	GSD.6-8	SO	VOA	78-87-5	17.00	UG/KG	N	1,2 - Dichloropropane
BH221	GSD.6-8	SO	VOA	79-01-6	13.00	UG/KG	J	trichloroethene
BH221	GSD.6-8	SO	VOA	8	6900.00	UG/KG	N	3,3 - Dichlorobenzidene
BH221	GSD.6-8	SO	VOA	9	2700.00	UG/KG	N	Benzo (B) Fluoranthene
BH221	GSD.6-8	SO	VOA	U	10.00	UG/KG	J	
BH233	PW-7	PW	BNA	21	19.00	UG/L	J	octadeconic acid, butyl este
BH233	PW-7	PW	BNA	U	35.00	UG/L	J	
BH233	PW-7	PW	VOA	75-09-2	3.10	UG/L	J	methylene chloride
BH232	PWTB	QC	VOA	67-64-1	12.00	UG/L		Acetone
BH232	PWTB	QC	VOA	71-43-2	0.70	UG/L	J	Benzene
BH232	PWTB	QC	VOA	75-09-2	2.40	UG/L	J	Methylene chloride
MBH072	SD-7	SE		%SOLIDS	66.00	MG/KG		
MBH072	SD-7	SE		AL	11000.00	MG/KG		
MBH072	SD-7	SE		AS	2.10	MG/KG	N,D	
MBH072	SD-7	SE		BA	65.00	MG/KG		
MBH072	SD-7	SE		BE	1.50	MG/KG		
MBH072	SD-7	SE		CA	1890.00	MG/KG		
MBH072	SD-7	SE		CO	43.00	MG/KG		
MBH072	SD-7	SE		CO	13.00	MG/KG	D	
MBH072	SD-7	SE		CR	18.00	MG/KG		

ASBESTOS DUMP SITE
ANALYTICAL RESULTS - SOIL/SEDIMENT

TRIP REPORT NUMBER	SAMPLE NUMBER	MATRIX	FRACTION	COMPOUND	CONCENTRATION	UNITS	QUALIFIER	
MBH072	SD-7	SE		FE	23600.00	MG/KG		
MBH072	SD-7	SE		MG	0.15	MG/KG		
MBH072	SD-7	SE		K	379.00	MG/KG	D	
MBH072	SD-7	SE		MG	2600.00	MG/KG		
MBH072	SD-7	SE		MN	235.00	MG/KG		
MBH072	SD-7	SE		NA	736.00	MG/KG	D	
MBH072	SD-7	SE		NI	15.00	MG/KG		
MBH072	SD-7	SE		PB	75.00	MG/KG		
MBH072	SD-7	SE		V	62.00	MG/KG		
MBH072	SD-7	SE		ZN	194.00	MG/KG		
BH229	SD-7	SE	BNA	10	6900.00	UG/KG	J	← Isomer of methyl Phenanthren
BH229	SD-7	SE	BNA	10	9600.00	UG/KG	J	← " " " "
BH229	SD-7	SE	BNA	10	28000.00	UG/KG	J	← " " " "
BH229	SD-7	SE	BNA	10	29000.00	UG/KG	J	← " " " "
BH229	SD-7	SE	BNA	11	13000.00	UG/KG	J	← Isomer of Phenyl Napthaler
BH229	SD-7	SE	BNA	12	22000.00	UG/KG	J	← Isomer of Dimethyl phenanthr
BH229	SD-7	SE	BNA	12	6900.00	UG/KG	J	← " " " "
BH229	SD-7	SE	BNA	129-00-0	2500.00	UG/KG	B	← pyrene
BH229	SD-7	SE	BNA	13	15000.00	UG/KG	J	← Isomer of methyl Pyrene
BH229	SD-7	SE	BNA	13	22000.00	UG/KG	J	← " " " "
BH229	SD-7	SE	BNA	14	16000.00	UG/KG	J	← Isomer of Benzo(B) Fluoren
BH229	SD-7	SE	BNA	15	19000.00	UG/KG	J	← Isomer of Terphenyl
BH229	SD-7	SE	BNA	15	11000.00	UG/KG	J	← " " "
BH229	SD-7	SE	BNA	16	7700.00	UG/KG	J	← Isomer of methyl chrysen
BH229	SD-7	SE	BNA	191-24-2	10800.00	UG/KG		← Benzo(g,h,i) perylene
BH229	SD-7	SE	BNA	193-39-5	9300.00	UG/KG		← Indeno(1,2,3-cd) pyrene
BH229	SD-7	SE	BNA	2	42000.00	UG/KG	J	← 2-pentanone, 4-hydroxy-4-Me
BH229	SD-7	SE	BNA	205-99-2	43000.00	UG/KG		← Benzo(b) Fluoranthene
BH229	SD-7	SE	BNA	206-44-0	120000.00	UG/KG	J,B	← Fluoranthene
BH229	SD-7	SE	BNA	207-08-9	42000.00	UG/KG		← Benzo(k) fluoranthene
BH229	SD-7	SE	BNA	218-01-9	19000.00	UG/KG		← Chrysene
BH229	SD-7	SE	BNA	50-32-8	24000.00	UG/KG		← Benzo(a) Pyrene
BH229	SD-7	SE	BNA	53-70-3	5700.00	UG/KG		← Dibenz(a,h)anthracene
BH229	SD-7	SE	BNA	56-55-3	39000.00	UG/KG		← Benzo(a) Anthracene
BH229	SD-7	SE	BNA	85-68-7-	980.00	UG/KG		← Butylbenzyl phthalate
BH229	SD-7	SE	BNA	9	8400.00	UG/KG	J	← Isomer of Dimethyl Napthale
BH229	SD-7	SE	BNA	U	4900.00	UG/KG	J	

ASBESTOS DUMP SITE
ANALYTICAL RESULTS - SOIL/SEDIMENT

TRIP REPORT NUMBER	SAMPLE NUMBER	MATRIX	FRACTION	COMPOUND	CONCENTRATION	UNITS	QUALIFIER	
BH229	SD-7	SE	BNA	U	6100.00	UG/KG	J	
BH229	SD-7	SE	BNA	U	5030.00	UG/KG	J	
BH229	SD-7	SE	BNA	U	6700.00	UG/KG	J	
BH229	SD-7	SE	BNA	U	5800.00	UG/KG	J	
BH229	SD-7	SE	VOA	U	7.00	UG/KG	J	
MBH073	SD-8	SE		%SOLIDS	81.60	MG/KG		
MBH073	SD-8	SE		AL	11700.00	MG/KG		
MBH073	SD-8	SE		BA	82.00	MG/KG		
MBH073	SD-8	SE		BE	1.20	MG/KG		
MBH073	SD-8	SE		CA	1510.00	MG/KG		
MBH073	SD-8	SE		CD	6.40	MG/KG	D	
MBH073	SD-8	SE		CR	20.00	MG/KG		
MBH073	SD-8	SE		CU	13.00	MG/KG		
MBH073	SD-8	SE		FE	14100.00	MG/KG		
MBH073	SD-8	SE		K	418.00	MG/KG	D	
MBH073	SD-8	SE		MG	2370.00	MG/KG		
MBH073	SD-8	SE		MN	112.00	MG/KG		
MBH073	SD-8	SE		NA	426.00	MG/KG	D	
MBH073	SD-8	SE		NI	13.00	MG/KG		
MBH073	SD-8	SE		PB	8.80	MG/KG		
MBH073	SD-8	SE		V	32.00	MG/KG		
MBH073	SD-8	SE		ZN	77.00	MG/KG		
BH230	SD-8	SE	BNA	120-12-7	100000.00	UG/KG	J	← anthracene
BH230	SD-8	SE	BNA	121-14-2	2300.00	UG/KG		← 2,4,-DINitrotoluene
BH230	SD-8	SE	BNA	132-64-9	510.00	UG/KG		← dibenzofuran
BH230	SD-8	SE	BNA	2	57000.00	UG/KG	J	← 2,-Pentanone,4-hydroxy 4-
BH230	SD-8	SE	BNA	65-85-0	730.00	UG/KG	J	← Benzoic Acid
BH230	SD-8	SE	BNA	8	3800.00	UG/KG	J	← tetrachloroethane
BH230	SD-8	SE	BNA	83-32-9	1700.00	UG/KG		← acenaphthene
BH230	SD-8	SE	BNA	84-74-2	4100.00	UG/KG		← D:-n-butylphthalate
BH230	SD-8	SE	BNA	85-01-8	97000.00	UG/KG	B	← phenanthrene
BH230	SD-8	SE	BNA	86-30-6	2090.00	UG/KG		← n-nitrosod:phenylamine(1)
BH230	SD-8	SE	BNA	86-73-7	4020.00	UG/KG		← Fluorene
BH230	SD-8	SE	BNA	91-20[illegible]-3	1090.00	UG/KG		← Naphthalene
BH230	SD-8	SE	BNA	91-57-6	2700.00	UG/KG		← 2-methylnaphthalene
BH230	SD-8	SE	BNA	99-09-2	12000.00	UG/KG		← 3-nitroaniline
BH230	SD-8	SE	BNA	U	8700.00	UG/KG	J	←

ASBESTOS DUMP SITE
ANALYTICAL RESULTS - SOIL/SEDIMENT

TRIP REPORT NUMBER	SAMPLE NUMBER	MATRIX	FRACTION	COMPOUND	CONCENTRATION	UNITS	QUALIFIER	
BH230	SD-8	SE	BNA	U	1800.00	UG/KG	J	
BH230	SD-8	SE	BNA	U	1200.00	UG/KG	J	
BH230	SD-8	SE	BNA	U	1200.00	UG/KG	J	
BH230	SD-8	SE	BNA	U	3000.00	UG/KG	J	
BH230	SD-8	SE	BNA	U	5600.00	UG/KG	J	
BH230	SD-8	SE	VOA	78-93-3	27.00	UG/KG		← 2-Butanone
BH230	SD-8	SE	VOA	78-93-3	21.00	UG/KG		← " "
BH230	SD-8	SE	VOA	U	7.40	UG/KG	J	
MBH070	SW-10	SW		CA	15900.00	UG/L		
MBH070	SW-10	SW		FE	246.00	UG/L		
MBH070	SW-10	SW		MG	5430.00	UG/L		
MBH070	SW-10	SW		MN	63.00	UG/L		
MBH070	SW-10	SW		NA	14700.00	UG/L		
MBH070	SW-10	SW		ZN	47.00	UG/L	N	
BH227	SW-10	SW	BNA	B	160.00	UG/L	J	← Tetrachloroethane
BH227	SW-10	SW	VOA	67-64-1	7.50	UG/L	J	← Acetone
MBH071	SW-13	SW		CA	20700.00	UG/L		
MBH071	SW-13	SW		FE	353.00	UG/L		
MBH071	SW-13	SW		K	999.00	UG/L	D	
MBH071	SW-13	SW		MG	6960.00	UG/L		
MBH071	SW-13	SW		MN	187.00	UG/L		
MBH071	SW-13	SW		NA	14800.00	UG/L		
MBH071	SW-13	SW		ZN	54.00	UG/L	N	
BH228	SW-13	SW	BNA	B	95.00	UG/L	J	← Tetrachloroethane
BH228	SW-13	SW	VOA	67-64-1	7.80	UG/L	J	← acetone
BH228	SW-13	SW	VOA	U	6.00	UG/L	J	
BH228	SW-13	SW	VOA	U	6.00	UG/L	J	
MBH068	SWP6.4-6	SO		%SOLIDS	79.82	%		
MBH068	SWP6.4-6	SO		AL	22000.00	MG/KG		
MBH068	SWP6.4-6	SO		AS	15.00	MG/KG		
MBH068	SWP6.4-6	SO		BA	123.00	MG/KG	D	
MBH068	SWP6.4-6	SO		BE	2.00	MG/KG	D	
MBH068	SWP6.4-6	SO		CA	3240.00	MG/KG		
MBH068	SWP6.4-6	SO		CO	23.00	MG/KG	D	
MBH068	SWP6.4-6	SO		CR	32.00	MG/KG		
MBH068	SWP6.4-6	SO		CU	32.00	MG/KG		
MBH068	SWP6.4-6	SO		FE	64800.00	MG/KG		

ASBESTOS DUMP SITE
ANALYTICAL RESULTS - SOIL/SEDIMENT

TRIP REPORT NUMBER	SAMPLE NUMBER	MATRIX	FRACTION	COMPOUND	CONCENTRATION	UNITS	QUALIFIER	
MBH068	SWP6.4-6	SO		MG	0.24	MG/KG		
MBH068	SWP6.4-6	SO		K	2890.00	MG/KG		
MBH068	SWP6.4-6	SO		MG	9340.00	MG/KG		
MBH068	SWP6.4-6	SO		MN	604.00	MG/KG	R	
MBH068	SWP6.4-6	SO		NI	39.00	MG/KG		
MBH068	SWP6.4-6	SO		PB	18.00	MG/KG		
MBH068	SWP6.4-6	SO		V	50.00	MG/KG		
MBH068	SWP6.4-6	SO		ZN	81.00	MG/KG		
BH224	SWP6.4-6	SO	BNA	84-74-2	2040.00	UG/KG		← Di-n-butylphthalate
BH224	SWP6.4-6	SO	VOA	78-93-3	13.00	UG/KG	B	← 2-butanone
BG272	TB-1	QC	VOA	REJ	0.00	UG/L		
BH216	TB-2	QC	VOA	REJ	0.00	UG/L		
BH219	TB-3	QC	VOA	108-88-3	0.70	UG/L	J	← toluene
BH219	TB-3	QC	VOA	4	7.00	UG/L	J	← hexane
BH219	TB-3	QC	VOA	78-87-5	7.00	UG/L	N	← 1,2-Dichloropropane
BH222	TB-4	QC	VOA	13	28.00	UG/L	J	← 1,1,2-trichloro-1,2,2-trifluoroeth
BH225	TB-5	QC		0	0.00	UG/L		
BH231	TB-6	QC	VOA	67-64-1	14.00	UG/L		← acetone