APPENDIX D

200 AREA EFFLUENT TREATMENT FACILITY POWDER CHARACTERIZATION

APPENDIX D

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Table D-1. 200 Area Effluent Treatment Facility Powder Characterization Proposed for Delisting (6 sheets).

CONSTITUENTS [1]	CAS #	Units	GENERERATED FROM 242-A EVAPORATOR PROCESS CONDENSATE							GENERATED FROM UP-1 GROUNDWATER							GENERATED FROM LERF BASIN 44 [2]		
			Count	Detects	Minimum	Mean	Maximum	Standard Deviation	Upper 95 % CI	Count	Detects	Minimum	Mean	Maximum	Standard Deviation	Upper 95 % CI	Count	Detects	Maximum
1,1,1-TRICHLOROETHANE	71-55-6	µg/Kg	12	0	1.7E+00	1.1E+01	2.8E+01	1.1E+01	1.8E+01	4	0	5.0E+00	8.8E+00	1.3E+01	4.3E+00	1.6E+01	1	0	1.3E+01
1,1,2-TRICHLOROETHANE	79-00-5	µg/Kg	12	0	2.8E+00	1.8E+01	4.2E+01	1.7E+01	2.8E+01	4	0	8.5E+00	1.5E+01	2.2E+01	7.5E+00	2.7E+01	1	0	2.2E+01
1,1-DICHLOROETHANE	75-34-3	µg/Kg	11	0	1.8E+00	1.1E+01	2.8E+01	1.1E+01	1.8E+01	4	0	5.5E+00	9.8E+00	1.4E+01	4.9E+00	1.8E+01	1	0	1.4E+01
1,1-DICHLOROETHENE	75-35-4	µg/Kg	12	0	2.0E+00	1.3E+01	3.0E+01	1.2E+01	2.1E+01	7	0	6.0E+00	2.4E+02	7.2E+02	3.3E+02	5.5E+02	1	0	1.5E+01
1,2- DICHLOROETHENE (TOTAL)	540-59-0	µg/Kg	12	0	1.7E+00	1.1E+01	2.8E+01	1.1E+01	1.8E+01	4	0	5.0E+00	8.8E+00	1.3E+01	4.3E+00	1.6E+01	1	0	1.3E+01
1,2,4-TRICHLOROBENZENE	120-82-1	µg/Kg	3	0	3.6E+01	4.8E+02	1.4E+03	7.7E+02	2.4E+03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-TRICHLOROBENZENE (TCLP)	120-82-1	µg/L	2	0	1.2E+02	1.2E+02	1.2E+02	0.0E+01	1.2E+02	5	0	3.7E+01	1.2E+02	1.4E+02	4.4E+01	1.7E+02	1	0	1.4E+02
1,2-DICHLOROETHANE	107-06-2	µg/Kg	12	0	1.7E+00	1.1E+01	2.8E+01	1.1E+01	1.8E+01	7	0	5.0E+00	1.7E+02	4.8E+02	2.2E+02	3.8E+02	1	0	1.3E+01
1,4-DICHLOROBENZENE	106-46-7	µg/Kg	12	0	1.6E+00	1.2E+02	1.3E+03	3.8E+02	3.6E+02	6	0	5.0E+00	1.0E+02	3.0E+02	1.5E+02	2.6E+02	1	0	1.3E+01
1,4-DICHLOROBENZENE (TCLP)	106-46-7	µg/L	2	0	1.3E+02	1.3E+02	1.3E+02	0.0E+01	1.3E+02	5	0	6.3E+01	1.2E+02	1.4E+02	3.5E+01	1.7E+02	1	0	1.4E+02
1-BUTANOL	71-36-3	µg/Kg	9	0	2.8E+01	2.1E+03	4.7E+03	2.1E+03	3.7E+03	4	0	9.5E+02	1.7E+03	2.4E+03	8.4E+02	3.0E+03	1	0	2.5E+03
2,4,5-TRICHLOROPHENOL (TCLP)	95-95-4	µg/L	ND	ND	ND	ND	ND	ND	ND	3	0	2.0E+01	2.4E+01	3.1E+01	6.4E+00	3.9E+01	ND	ND	ND
2,4,6-TRICHLOROPHENOL (TCLP)	88-06-2	µg/L	ND	ND	ND	ND	ND	ND	ND	3	0	1.6E+01	2.5E+01	3.0E+01	8.4E+00	4.6E+01	ND	ND	ND
2,4-DICHLOROPHENOL (TCLP)	120-83-2	µg/L	ND	ND	ND	ND	ND	ND	ND	2	0	2.8E+01	2.8E+01	2.8E+01	0.0E+01	2.8E+01	1	0	2.8E+01
2,4-DINITROTOLUENE	121-14-2	µg/Kg	3	0	5.2E+01	2.9E+02	7.8E+02	4.2E+02	1.3E+03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-DINITROTOLUENE (TCLP)	121-14-2	µg/L	2	0	6.5E+01	6.5E+01	6.5E+01	0.0E+01	6.5E+01	5	0	1.2E+01	3.4E+01	4.0E+01	1.3E+01	5.0E+01	1	0	4.0E+01
2-BUTANONE	78-93-3	µg/Kg	12	4	3.8E+00	2.0E+01	3.7E+01	1.2E+01	2.8E+01	7	0	7.5E+00	1.7E+02	4.1E+02	1.9E+02	3.5E+02	1	0	1.9E+01
2-BUTOXYETHANOL	111-76-2	µg/Kg	10	0	4.2E+01	1.2E+02	6.2E+02	1.7E+02	2.5E+02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-BUTOXYETHANOL (TCLP)	111-76-2	µg/L	2	0	4.5E+01	4.5E+01	4.5E+01	0.0E+01	4.5E+01	2	0	3.0E+01	3.0E+01	3.0E+01	0.0E+01	3.0E+01	1	0	3.0E+01
2-CHLOROPHENOL	95-57-8	µg/Kg	3	0	4.6E+01	1.9E+02	4.9E+02	2.5E+02	8.2E+02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-CHLOROPHENOL (TCLP)	95-57-8	µg/L	2	0	4.5E+01	4.5E+01	4.5E+01	0.0E+01	4.5E+01	5	0	6.5E+00	1.9E+01	2.3E+01	7.2E+00	2.8E+01	1	0	2.3E+01
2-HEXANONE	591-78-6	µg/Kg	12	0	4.6E+00	2.7E+01	7.0E+01	2.7E+01	4.4E+01	4	0	1.4E+01	2.5E+01	3.5E+01	1.2E+01	4.4E+01	1	0	3.5E+01
2-METHYLPHENOL	95-48-7	µg/Kg	9	0	9.0E+01	1.4E+02	1.8E+02	2.7E+01	1.6E+02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table D-1. 200 Area Effluent Treatment Facility Powder Characterization Proposed for Delisting (6 sheets).

CONSTITUENTS [1]	CAS #	Units	GENERERATED FROM 242-A EVAPORATOR PROCESS CONDENSATE							GENERATED FROM UP-1 GROUNDWATER							GENERATED FROM LERF BASIN 44 [2]		
			Count	Detects	Minimum	Mean	Maximum	Standard Deviation	Upper 95 % CI	Count	Detects	Minimum	Mean	Maximum	Standard Deviation	Upper 95 % CI	Count	Detects	Maximum
2-METHYLPHENOL (TCLP)	95-48-7	µg/L	2	0	5.0E+01	5.0E+01	5.0E+01	0.0E+01	5.0E+01	5	0	1.0E+01	3.4E+01	4.0E+01	1.3E+01	5.1E+01	1	0	4.0E+01
2-NITROPHENOL (TCLP)	88-75-5	µg/L	ND	ND	ND	ND	ND	ND	ND	2	0	4.3E+01	4.3E+01	4.3E+01	0.0E+01	4.3E+01	1	0	4.3E+01
2-PENTANONE	107-87-9	µg/Kg	8	0	3.3E+00	2.4E+01	5.0E+01	2.2E+01	4.2E+01	4	0	1.0E+01	1.8E+01	2.5E+01	8.7E+00	3.1E+01	1	0	2.5E+01
2-PICOLINE (TCLP)	109-06-8	µg/L	ND	ND	ND	ND	ND	ND	ND	2	0	1.5E+01	1.5E+01	1.5E+01	0.0E+01	1.5E+01	1	0	1.5E+01
3-METHYLPHENOL	108-39-4	µg/Kg	9	0	7.5E+01	1.2E+02	1.5E+02	2.3E+01	1.3E+02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-METHYLPHENOL (TCLP)	108-39-4	µg/L	2	0	6.5E+01	6.5E+01	6.5E+01	0.0E+01	6.5E+01	5	0	3.8E+01	5.1E+01	5.5E+01	7.2E+00	5.9E+01	1	0	5.3E+01
4-CHLORO-3-METHYLPHENOL	59-50-7	µg/Kg	3	0	2.3E+01	3.5E+02	1.0E+03	5.7E+02	1.8E+03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-CHLORO-3-METHYLPHENOL (TCLP)	59-50-7	µg/L	2	0	4.5E+01	4.5E+01	4.5E+01	0.0E+01	4.5E+01	5	0	1.8E+01	1.8E+01	2.0E+01	1.1E+00	1.9E+01	1	0	1.8E+01
4-METHYL-2-PENTANONE	108-10-1	µg/Kg	12	0	3.8E+00	2.3E+01	5.5E+01	2.1E+01	3.6E+01	4	0	1.2E+01	2.0E+01	2.9E+01	1.0E+01	3.6E+01	1	0	3.0E+01
4-NITROPHENOL	100-02-7	µg/Kg	3	0	2.3E+02	1.5E+03	4.0E+03	2.2E+03	6.9E+03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-NITROPHENOL (TCLP)	100-02-7	µg/L	2	0	9.0E+01	9.0E+01	9.0E+01	0.0E+01	9.0E+01	5	0	2.5E+01	2.7E+01	2.8E+01	1.1E+00	2.8E+01	1	0	2.8E+01
ACENAPHTHENE	83-32-9	µg/Kg	3	0	5.0E+01	4.4E+02	1.2E+03	6.7E+02	2.1E+03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ACENAPHTHENE (TCLP)	83-32-9	µg/L	2	0	4.5E+01	4.5E+01	4.5E+01	0.0E+01	4.5E+01	5	0	4.5E+00	7.2E+01	9.0E+01	3.8E+01	1.2E+02	1	0	8.8E+01
ACETONE	67-64-1	µg/Kg	12	11	2.8E+01	1.6E+03	1.0E+04	2.9E+03	3.5E+03	4	0	8.0E+00	1.4E+01	2.0E+01	6.9E+00	2.5E+01	1	1	2.5E+02
ACETOPHENONE	98-86-2	µg/Kg	10	0	1.8E+01	8.5E+01	6.0E+02	1.8E+02	2.1E+02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ACETOPHENONE (TCLP)	98-86-2	µg/L	2	0	1.5E+01	1.5E+01	1.5E+01	0.0E+01	1.5E+01	2	0	3.0E+01	3.0E+01	3.0E+01	0.0E+01	3.0E+01	1	0	3.0E+01
ALUMINUM	7429-90-5	µg/Kg	12	11	1.6E+04	5.5E+04	1.0E+05	2.5E+04	7.1E+04	17	10	1.2E+03	2.8E+04	1.2E+05	4.5E+04	5.2E+04	1	1	3.9E+03
AMMONIA	7664-41-7	µg/Kg	1	1	2.4E+08	2.4E+08	2.4E+08	NC	NC	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AMMONIA (AS N)	7664-41-7	µg/Kg	11	11	6.6E+06	7.5E+07	1.1E+08	4.3E+07	1.0E+08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ANTIMONY	7440-36-0	µg/Kg	11	0	1.8E+03	7.6E+03	1.8E+04	7.8E+03	1.3E+04	15	6	1.2E+02	2.6E+03	4.6E+03	1.8E+03	3.6E+03	1	1	4.3E+02
AROCLOR-1016	12674-11-2	µg/Kg	1	0	1.0E+02	1.0E+02	1.0E+02	NC	NC	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AROCLOR-1221	11104-28-2	µg/Kg	1	0	2.0E+02	2.0E+02	2.0E+02	NC	NC	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AROCLOR-1232	11141-16-5	µg/Kg	1	0	1.0E+02	1.0E+02	1.0E+02	NC	NC	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AROCLOR-1242	53469-21-9	µg/Kg	1	0	1.0E+02	1.0E+02	1.0E+02	NC	NC	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AROCLOR-1248	12672-29-6	µg/Kg	1	0	1.0E+02	1.0E+02	1.0E+02	NC	NC	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AROCLOR-1254	11097-69-1	µg/Kg	1	0	1.0E+02	1.0E+02	1.0E+02	NC	NC	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AROCLOR-1260	11096-82-5	µg/Kg	1	0	1.0E+02	1.0E+02	1.0E+02	NC	NC	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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CONSTITUENTS [1]	CAS #	Units	GENERERATED FROM 242-A EVAPORATOR PROCESS CONDENSATE							GENERATED FROM UP-1 GROUNDWATER							GENERATED FROM LERF BASIN 44 [2]		
			Count	Detects	Minimum	Mean	Maximum	Standard Deviation	Upper 95 % CI	Count	Detects	Minimum	Mean	Maximum	Standard Deviation	Upper 95 % CI	Count	Detects	Maximum
ARSENIC	7440-38-2	µg/Kg	7	4	9.5E+01	4.9E+02	1.2E+03	5.0E+02	9.5E+02	3	3	8.0E+02	1.1E+03	1.8E+03	5.8E+02	2.6E+03	1	1	4.4E+03
ARSENIC (TCLP)	7440-38-2	µg/L	6	1	3.3E+01	4.4E+01	9.1E+01	2.3E+01	6.8E+01	21	4	9.4E+00	4.1E+01	1.0E+02	2.0E+01	5.1E+01	1	1	6.9E+01
BARIUM	7440-39-3	µg/Kg	7	7	1.1E+03	1.6E+03	1.9E+03	2.7E+02	1.9E+03	3	3	6.9E+03	1.4E+04	1.8E+04	6.2E+03	3.0E+04	1	1	1.2E+05
BARIUM (TCLP)	7440-39-3	µg/L	6	6	3.5E+01	9.1E+01	2.3E+02	6.9E+01	1.6E+02	21	21	2.9E+01	1.5E+02	6.1E+02	1.7E+02	2.3E+02	1	1	4.1E+02
BENZENE	71-43-2	µg/Kg	12	0	1.7E+00	1.1E+01	2.8E+01	1.1E+01	1.8E+01	7	0	5.0E+00	1.3E+02	3.3E+02	1.5E+02	2.7E+02	1	0	1.3E+01
BENZOTHIAZOLE (TCLP)	95-16-9	µg/L	ND	ND	ND	ND	ND	ND	ND	2	0	2.5E+01	2.5E+01	2.5E+01	0.0E+01	2.5E+01	1	0	2.5E+01
BENZYL ALCOHOL	100-51-6	µg/Kg	10	0	3.6E+01	1.3E+02	8.3E+02	2.4E+02	3.1E+02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BENZYL ALCOHOL (TCLP)	100-51-6	µg/L	2	0	5.0E+01	5.0E+01	5.0E+01	0.0E+01	5.0E+01	2	0	2.3E+01	2.3E+01	2.3E+01	0.0E+01	2.3E+01	1	0	2.3E+01
BERYLLIUM	7440-41-7	µg/Kg	12	0	1.7E+02	1.5E+03	1.0E+04	2.9E+03	3.4E+03	17	0	1.0E+02	4.8E+03	2.5E+04	9.0E+03	9.4E+03	1	1	3.3E+01
BIS(2-ETHYLHEXYL) PHTHALATE (TCLP)	117-81-7	µg/L	ND	ND	ND	ND	ND	ND	ND	2	0	8.8E+01	8.8E+01	8.8E+01	0.0E+01	8.8E+01	1	0	8.8E+01
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	µg/Kg	1	1	2.7E+03	2.7E+03	2.7E+03	NC	NC	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BISMUTH	7440-69-9	µg/Kg	1	0	2.1E+05	2.1E+05	2.1E+05	NC	NC	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BORON	7440-42-8	µg/Kg	5	3	5.7E+03	3.0E+04	1.0E+05	4.2E+04	8.2E+04	4	4	1.0E+04	1.1E+04	1.2E+04	6.6E+02	1.2E+04	ND	ND	ND
BROMIDE	24959-67-9	µg/Kg	12	0	1.6E+05	8.4E+05	2.5E+06	8.8E+05	1.4E+06	12	1	5.1E+04	6.9E+05	5.1E+06	1.4E+06	1.6E+06	1	0	1.5E+05
BROMODICHLORO-METHANE	75-27-4	µg/Kg	ND	ND	ND	ND	ND	ND	ND	4	0	2.0E+00	3.5E+00	5.0E+00	1.7E+00	6.3E+00	1	0	5.0E+00
CADMIUM	7440-43-9	µg/Kg	7	6	5.0E+01	1.9E+02	3.1E+02	1.1E+02	2.8E+02	3	0	1.0E+02	1.0E+02	1.0E+02	0.0E+01	1.0E+02	1	1	3.1E+02
CADMIUM (TCLP)	7440-43-9	µg/L	6	1	3.0E+00	5.5E+00	1.8E+01	6.2E+00	1.2E+01	21	4	1.7E+00	6.9E+00	6.8E+01	1.5E+01	1.3E+01	1	1	9.1E+00
CALCIUM	7440-70-2	µg/Kg	12	12	3.6E+05	3.1E+06	2.4E+07	6.7E+06	7.4E+06	17	17	1.4E+06	1.7E+07	7.8E+07	2.4E+07	2.9E+07	1	1	1.2E+08
CARBON DISULFIDE	75-15-0	µg/Kg	11	0	1.7E+00	9.7E+00	2.5E+01	1.0E+01	1.6E+01	4	0	5.0E+00	8.8E+00	1.3E+01	4.3E+00	1.6E+01	1	0	1.3E+01
CARBON TETRACHLORIDE	56-23-5	µg/Kg	12	3	1.7E+00	1.1E+01	2.8E+01	8.4E+00	1.7E+01	7	0	3.5E+00	1.8E+02	5.5E+02	2.6E+02	4.2E+02	1	0	9.0E+00
CERIUM	7440-45-1	µg/Kg	1	0	2.1E+05	2.1E+05	2.1E+05	NC	NC	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CHLORIDE	16887-00-6	µg/Kg	12	8	2.8E+04	5.3E+06	1.3E+07	4.9E+06	8.5E+06	12	12	4.9E+06	1.7E+07	3.1E+07	8.5E+06	2.2E+07	1	1	2.9E+07
CHLOROBENZENE	108-90-7	µg/Kg	12	0	2.0E+00	1.3E+01	3.0E+01	1.2E+01	2.0E+01	7	0	6.0E+00	9.7E+01	2.3E+02	1.1E+02	2.0E+02	1	0	1.5E+01
CHLOROFORM	67-66-3	µg/Kg	12	5	2.3E+00	2.5E+01	9.4E+01	2.4E+01	4.1E+01	7	0	4.5E+00	1.4E+02	3.8E+02	1.7E+02	3.0E+02	1	0	1.2E+01
CHROMIUM	7440-47-3	µg/Kg	7	7	8.0E+03	2.1E+04	6.0E+04	1.8E+04	3.8E+04	3	3	5.6E+03	6.1E+03	6.4E+03	4.2E+02	7.1E+03	1	1	1.1E+04
CHROMIUM (TCLP)	7440-47-3	µg/L	6	6	4.5E+02	5.3E+02	6.4E+02	7.1E+01	6.0E+02	21	21	1.7E+01	5.3E+02	1.7E+03	5.5E+02	7.8E+02	1	1	1.9E+02
COBALT	7440-48-4	µg/Kg	12	5	6.9E+02	5.3E+03	4.2E+04	1.2E+04	1.3E+04	17	0	1.0E+02	5.2E+03	2.9E+04	9.3E+03	1.0E+04	1	1	3.4E+02
COPPER	7440-50-8	µg/Kg	12	11	5.6E+03	2.2E+04	3.9E+04	1.2E+04	3.0E+04	17	15	1.6E+03	4.4E+03	1.9E+04	4.4E+03	6.6E+03	1	1	1.9E+03

Table D-1. 200 Area Effluent Treatment Facility Powder Characterization Proposed for Delisting (6 sheets).

CONSTITUENTS [1]	CAS #	Units	GENERERATED FROM 242-A EVAPORATOR PROCESS CONDENSATE							GENERATED FROM UP-1 GROUNDWATER							GENERATED FROM LERF BASIN 44 [2]		
			Count	Detects	Minimum	Mean	Maximum	Standard Deviation	Upper 95 % CI	Count	Detects	Minimum	Mean	Maximum	Standard Deviation	Upper 95 % CI	Count	Detects	Maximum
CYANIDE	57-12-5	µg/Kg	11	5	2.5E-01	2.6E+02	8.7E+02	3.3E+02	4.8E+02	7	2	1.3E+02	2.2E+02	3.4E+02	8.9E+01	3.0E+02	1	0	1.3E+02
DECANE (TCLP)	124-18-5	µg/L	ND	ND	ND	ND	ND	ND	ND	2	0	6.0E+01	6.0E+01	6.0E+01	0.0E+01	6.0E+01	1	0	6.0E+01
DI-N-OCTYL PHTHALATE	117-84-0	µg/Kg	10	1	1.4E+02	4.0E+02	1.5E+03	4.2E+02	7.0E+02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DI-N-OCTYL PHTHALATE (TCLP)	117-84-0	µg/L	2	0	5.5E+01	5.5E+01	5.5E+01	0.0E+01	5.5E+01	2	0	4.5E+01	4.5E+01	4.5E+01	0.0E+01	4.5E+01	1	0	4.5E+01
DODECANE (TCLP)	112-40-3	µg/L	ND	ND	ND	ND	ND	ND	ND	2	0	6.8E+01	6.8E+01	6.8E+01	0.0E+01	6.8E+01	1	0	6.8E+01
FLUORIDE	16984-48-8	µg/Kg	12	0	2.0E+04	2.0E+05	5.8E+05	2.3E+05	3.4E+05	12	2	3.6E+03	6.9E+04	2.7E+05	8.0E+04	1.2E+05	1	1	4.0E+05
HEXACHLORO-BENZENE (TCLP)	118-74-1	µg/L	ND	ND	ND	ND	ND	ND	ND	3	0	1.8E+01	2.8E+01	3.3E+01	8.7E+00	4.9E+01	ND	ND	ND
HEXACHLORO-BUTADIENE (TCLP)	87-68-3	µg/L	ND	ND	ND	ND	ND	ND	ND	3	0	8.3E+01	1.4E+02	1.8E+02	5.3E+01	2.8E+02	ND	ND	ND
HEXACHLOROETHANE	67-72-1	µg/Kg	10	0	2.4E+01	1.9E+02	1.5E+03	4.7E+02	5.2E+02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HEXACHLORO-ETHANE (TCLP)	67-72-1	µg/L	2	0	1.4E+02	1.4E+02	1.4E+02	0.0E+01	1.4E+02	5	0	1.0E+02	1.5E+02	1.6E+02	2.6E+01	1.8E+02	1	0	1.6E+02
IRON	7439-89-6	µg/Kg	12	11	9.7E+04	2.0E+05	2.8E+05	6.4E+04	2.4E+05	15	13	1.3E+04	6.3E+04	9.4E+04	2.4E+04	7.6E+04	1	1	5.4E+04
LANTHANUM	7439-91-0	µg/Kg	1	0	1.0E+05	1.0E+05	1.0E+05	NC	NC	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LEAD	7439-92-1	µg/Kg	7	7	7.0E+02	8.9E+02	1.0E+03	1.1E+02	9.9E+02	3	3	3.0E+02	4.0E+02	5.0E+02	1.0E+02	6.5E+02	1	1	4.2E+02
LEAD (TCLP)	7439-92-1	µg/L	6	1	1.4E+01	2.6E+01	6.4E+01	1.9E+01	4.6E+01	21	5	7.2E+00	4.0E+01	2.1E+02	5.2E+01	6.4E+01	1	1	6.0E+01
LITHIUM	7439-93-2	µg/Kg	1	0	2.1E+04	2.1E+04	2.1E+04	NC	NC	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MAGNESIUM	7439-95-4	µg/Kg	12	12	8.1E+04	1.5E+06	6.3E+06	2.0E+06	2.7E+06	15	15	6.1E+06	2.3E+07	4.0E+07	1.1E+07	2.9E+07	1	1	3.5E+07
MANGANESE	7439-96-5	µg/Kg	12	7	1.6E+03	4.7E+03	2.1E+04	5.3E+03	8.1E+03	17	6	2.0E+02	4.5E+03	2.0E+04	7.5E+03	8.4E+03	1	1	1.7E+03
MERCURY	7439-97-6	µg/Kg	10	4	2.0E+01	1.5E+02	6.0E+02	2.0E+02	2.9E+02	5	5	5.0E+02	7.4E+02	9.6E+02	2.3E+02	1.0E+03	1	1	9.5E+01
MERCURY (TCLP)	7439-97-6	µg/L	3	2	0.0E+01	3.2E+00	4.8E+00	2.8E+00	1.0E+01	19	8	1.2E+00	6.2E+00	1.9E+01	5.6E+00	8.9E+00	1	1	2.4E+00
METHYLENE CHLORIDE	75-09-2	µg/Kg	12	2	1.8E+00	1.3E+01	2.8E+01	1.1E+01	2.0E+01	4	0	5.5E+00	9.8E+00	1.4E+01	4.9E+00	1.8E+01	1	0	1.4E+01
MOLYBDENUM	7439-98-7	µg/Kg	1	0	1.0E+05	1.0E+05	1.0E+05	NC	NC	2	2	4.0E+03	4.2E+03	4.3E+03	2.1E+02	6.1E+03	1	1	1.9E+04
NAPHTHALENE	91-20-3	µg/Kg	10	0	2.2E+01	1.6E+02	1.3E+03	4.1E+02	4.6E+02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NAPHTHALENE (TCLP)	91-20-3	µg/L	2	0	1.3E+02	1.3E+02	1.3E+02	0.0E+01	1.3E+02	2	0	1.1E+02	1.1E+02	1.1E+02	0.0E+01	1.1E+02	1	0	1.1E+02
NEODYMIUM	7440-00-8	µg/Kg	1	0	2.1E+05	2.1E+05	2.1E+05	NC	NC	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NICKEL	7440-02-0	µg/Kg	12	11	1.9E+04	2.8E+04	4.4E+04	9.3E+03	3.4E+04	17	12	1.9E+03	1.6E+04	5.4E+04	1.7E+04	2.5E+04	1	1	9.1E+03
NITRATE	14797-55-8	µg/Kg	1	1	5.5E+07	5.5E+07	5.5E+07	NC	NC	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NITRATE (AS N)	14797-55-8	µg/Kg	11	10	2.5E+04	5.6E+06	1.8E+07	6.8E+06	1.0E+07	12	12	1.7E+07	1.1E+08	8.8E+08	2.4E+08	2.7E+08	1	1	6.7E+07
NITRITE	14797-65-0	µg/Kg	1	0	2.2E+06	2.2E+06	2.2E+06	NC	NC	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NITRITE (AS N)	14797-65-0	µg/Kg	11	0	2.5E+04	1.1E+05	3.0E+05	1.2E+05	1.9E+05	12	5	5.8E+04	2.1E+05	7.9E+05	2.0E+05	3.4E+05	1	0	1.0E+05

Table D-1. 200 Area Effluent Treatment Facility Powder Characterization Proposed for Delisting (6 sheets).

CONSTITUENTS [1]	CAS #	Units	GENERERATED FROM 242-A EVAPORATOR PROCESS CONDENSATE							GENERATED FROM UP-1 GROUNDWATER							GENERATED FROM LERF BASIN 44 [2]		
			Count	Detects	Minimum	Mean	Maximum	Standard Deviation	Upper 95 % CI	Count	Detects	Minimum	Mean	Maximum	Standard Deviation	Upper 95 % CI	Count	Detects	Maximum
NITROBENZENE (TCLP)	98-95-3	µg/L	ND	ND	ND	ND	ND	ND	ND	3	0	2.2E+01	2.4E+01	2.5E+01	2.0E+00	2.9E+01	ND	ND	ND
N-NITROSODIMETHYL-AMINE	62-75-9	µg/Kg	10	7	3.9E+01	5.0E+03	1.5E+04	5.5E+03	8.9E+03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-NITROSODIMETHYL-AMINE (TCLP)	62-75-9	µg/L	2	0	5.0E+01	5.0E+01	5.0E+01	0.0E+01	5.0E+01	2	0	2.0E+01	2.0E+01	2.0E+01	0.0E+01	2.0E+01	1	0	2.0E+01
N-NITROSODI-N-PROPYLAMINE	621-64-7	µg/Kg	3	0	3.5E+01	2.6E+02	7.0E+02	3.8E+02	1.2E+03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-NITROSODI-N-PROPYLAMINE (TCLP)	621-64-7	µg/L	2	0	4.0E+01	4.0E+01	4.0E+01	0.0E+01	4.0E+01	5	0	1.5E+01	3.1E+01	3.5E+01	8.9E+00	4.2E+01	1	0	3.5E+01
PENTACHLOROPHENOL	87-86-5	µg/Kg	3	0	1.3E+02	1.3E+03	3.6E+03	2.0E+03	6.2E+03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PENTACHLOROPHENOL (TCLP)	87-86-5	µg/L	2	0	5.5E+01	5.5E+01	5.5E+01	0.0E+01	5.5E+01	5	0	6.5E+01	1.0E+02	2.5E+02	8.3E+01	2.0E+02	1	0	6.5E+01
PHENOL	108-95-2	µg/Kg	3	0	3.6E+01	2.1E+02	5.7E+02	3.1E+02	9.8E+02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PHENOL (TCLP)	108-95-2	µg/L	2	0	2.1E+01	2.1E+01	2.1E+01	0.0E+01	2.1E+01	5	0	9.5E+00	4.2E+01	5.0E+01	1.8E+01	6.4E+01	1	0	5.0E+01
PHOSPHATE	14265-44-2	µg/Kg	12	0	1.2E+05	7.3E+05	2.4E+06	8.0E+05	1.2E+06	12	0	3.1E+04	2.2E+05	4.5E+05	1.6E+05	3.2E+05	1	0	1.5E+05
PHOSPHORUS	7723-14-0	µg/Kg	1	1	1.2E+06	1.2E+06	1.2E+06	NC	NC	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
POTASSIUM	7440-09-7	µg/Kg	12	11	2.3E+05	7.5E+05	1.3E+06	3.5E+05	9.7E+05	17	14	1.6E+06	4.3E+06	1.0E+07	2.2E+06	5.4E+06	ND	ND	ND
PROPIONITRILE	107-12-0	µg/Kg	8	0	1.7E+00	1.2E+01	2.5E+01	1.1E+01	2.1E+01	4	0	5.0E+00	8.8E+00	1.3E+01	4.3E+00	1.6E+01	1	0	1.3E+01
PYRENE	129-00-0	µg/Kg	3	0	4.9E+01	2.3E+02	6.0E+02	3.2E+02	1.0E+03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PYRENE (TCLP)	129-00-0	µg/L	2	0	4.0E+01	4.0E+01	4.0E+01	0.0E+01	4.0E+01	5	0	1.3E+01	1.3E+01	1.7E+01	2.0E+00	1.6E+01	1	0	1.3E+01
PYRIDINE (TCLP)	110-86-1	µg/L	ND	ND	ND	ND	ND	ND	ND	3	0	1.9E+01	2.6E+01	3.0E+01	6.4E+00	4.2E+01	ND	ND	ND
SAMARIUM	7440-19-9	µg/Kg	1	0	2.1E+05	2.1E+05	2.1E+05	NC	NC	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SELENIUM	7782-49-2	µg/Kg	7	3	2.6E+02	1.6E+03	3.7E+03	1.7E+03	3.2E+03	3	3	2.1E+03	4.1E+03	7.6E+03	3.0E+03	1.2E+04	1	1	1.1E+04
SELENIUM (TCLP)	7782-49-2	µg/L	6	1	5.6E+01	8.9E+01	2.3E+02	7.1E+01	1.6E+02	21	4	5.6E+01	1.0E+02	3.5E+02	9.2E+01	1.5E+02	1	1	4.2E+02
SILICON	7440-21-3	µg/Kg	5	5	2.1E+05	4.0E+05	6.2E+05	1.9E+05	6.3E+05	14	12	9.4E+04	2.0E+05	5.0E+05	1.0E+05	2.6E+05	1	1	1.1E+06
SILVER	7440-22-4	µg/Kg	7	0	2.5E+02	2.7E+02	3.0E+02	2.4E+01	2.9E+02	3	0	1.5E+02	2.1E+02	3.4E+02	1.1E+02	4.9E+02	1	1	9.6E+01
SILVER (TCLP)	7440-22-4	µg/L	6	0	7.5E-01	2.3E+00	3.0E+00	7.8E-01	3.1E+00	21	1	1.2E+00	5.6E+00	5.8E+01	1.2E+01	1.1E+01	1	0	2.4E-01
SODIUM	7440-23-5	µg/Kg	12	12	1.1E+08	1.9E+08	3.6E+08	9.4E+07	2.5E+08	15	15	1.1E+08	2.2E+08	3.1E+08	5.3E+07	2.4E+08	1	1	1.2E+08
STRONTIUM	7440-24-6	µg/Kg	5	5	1.4E+04	3.3E+04	1.0E+05	3.9E+04	8.1E+04	2	2	3.9E+04	4.3E+04	4.8E+04	6.4E+03	1.0E+05	ND	ND	ND
SULFATE	14808-79-8	µg/Kg	12	12	5.4E+08	7.3E+08	1.5E+09	2.4E+08	8.8E+08	12	12	9.4E+07	3.5E+08	5.9E+08	1.6E+08	4.5E+08	1	1	2.6E+08
SULFUR	63705-05-5	µg/Kg	1	1	2.2E+08	2.2E+08	2.2E+08	NC	NC	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TETRACHLOROETHYLENE	127-18-4	µg/Kg	11	0	2.0E+00	1.4E+01	3.0E+01	1.3E+01	2.2E+01	7	0	6.0E+00	4.8E+02	1.6E+03	7.3E+02	1.2E+03	1	0	1.5E+01
TETRADECANE (TCLP)	629-59-4	µg/L	ND	ND	ND	ND	ND	ND	ND	2	0	7.5E+01	7.5E+01	7.5E+01	0.0E+01	7.5E+01	1	0	7.5E+01

Table D-1. 200 Area Effluent Treatment Facility Powder Characterization Proposed for Delisting (6 sheets).

CONSTITUENTS [1]	CAS #	Units	GENERERATED FROM 242-A EVAPORATOR PROCESS CONDENSATE							GENERATED FROM UP-1 GROUNDWATER							GENERATED FROM LERF BASIN 44 [2]		
			Count	Detects	Minimum	Mean	Maximum	Standard Deviation	Upper 95 % CI	Count	Detects	Minimum	Mean	Maximum	Standard Deviation	Upper 95 % CI	Count	Detects	Maximum
TETRAHYDROFURAN	109-99-9	µg/Kg	8	1	3.3E+00	2.5E+01	5.0E+01	2.1E+01	4.3E+01	4	0	1.0E+01	1.8E+01	2.5E+01	8.7E+00	3.1E+01	1	0	2.5E+01
THALLIUM	7440-28-0	µg/Kg	12	0	5.3E+03	4.8E+04	4.2E+05	1.2E+05	1.2E+05	17	0	1.5E+02	7.2E+04	3.5E+05	1.3E+05	1.4E+05	1	1	4.6E+02
THORIUM	7440-29-1	µg/Kg	ND	ND	ND	ND	ND	ND	ND	2	0	2.0E+02	2.0E+02	2.0E+02	0.0E+01	2.0E+02	1	1	9.7E+02
TITANIUM	7440-32-6	µg/Kg	12	3	1.7E+02	2.6E+03	2.1E+04	5.8E+03	6.3E+03	15	0	1.5E+02	6.0E+03	3.0E+04	1.1E+04	1.2E+04	1	0	1.6E+03
TOLUENE	108-88-3	µg/Kg	12	0	1.7E+00	1.1E+01	2.8E+01	1.1E+01	1.8E+01	5	0	5.0E+00	4.6E+01	2.0E+02	8.3E+01	1.5E+02	1	0	1.3E+01
TOTAL CRESOL	1319-77-3	µg/Kg	10	0	1.7E+02	3.9E+02	1.6E+03	4.2E+02	6.9E+02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL CRESOL (TCLP)	1319-77-3	µg/L	2	0	1.1E+02	1.1E+02	1.1E+02	0.0E+01	1.1E+02	2	0	9.0E+01	9.0E+01	9.0E+01	0.0E+01	9.0E+01	1	0	9.0E+01
TRI(2-CHLOROETHYL) PHOSPHATE (TCLP)	115-96-8	µg/L	ND	ND	ND	ND	ND	ND	ND	2	0	3.8E+01	3.8E+01	3.8E+01	0.0E+01	3.8E+01	1	0	3.8E+01
TRIBUTYL PHOSPHATE	126-73-8	µg/Kg	10	0	2.0E+01	6.2E+01	3.5E+02	1.0E+02	1.3E+02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TRIBUTYL PHOSPHATE (TCLP)	126-73-8	µg/L	2	0	1.5E+01	1.5E+01	1.5E+01	0.0E+01	1.5E+01	2	0	1.8E+01	1.8E+01	1.8E+01	0.0E+01	1.8E+01	1	0	1.8E+01
TRICHLOROETHENE	79-01-6	µg/Kg	11	0	1.8E+00	1.1E+01	2.8E+01	1.1E+01	1.8E+01	7	0	5.5E+00	1.3E+02	3.4E+02	1.6E+02	2.8E+02	1	0	1.4E+01
URANIUM	7440-61-1	µg/Kg	1	0	1.0E+06	1.0E+06	1.0E+06	NC	NC	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
URANIUM (TOTAL)	7440-61-1	µg/Kg	11	7	7.0E+01	1.9E+04	5.6E+04	2.7E+04	3.7E+04	16	14	1.2E+03	7.0E+04	2.4E+05	7.6E+04	1.1E+05	1	1	2.3E+05
VANADIUM	7440-62-2	µg/Kg	12	0	5.9E+02	9.9E+03	1.0E+05	3.0E+04	2.9E+04	17	13	2.9E+03	1.0E+04	2.9E+04	8.6E+03	1.5E+04	1	1	3.0E+04
VINYL CHLORIDE	75-01-4	µg/Kg	12	0	1.0E+00	7.7E+00	2.8E+01	8.6E+00	1.3E+01	7	0	3.0E+00	2.5E+02	8.0E+02	3.8E+02	6.0E+02	1	0	7.5E+00
XYLENE (TOTAL)	1330-20-7	µg/Kg	11	0	1.7E+00	9.7E+00	2.5E+01	1.0E+01	1.7E+01	4	0	5.0E+00	8.8E+00	1.3E+01	4.3E+00	1.6E+01	1	0	1.3E+01
ZINC	7440-66-6	µg/Kg	12	12	4.0E+03	1.8E+04	5.6E+04	1.4E+04	2.7E+04	17	6	2.0E+02	6.6E+03	2.0E+04	7.1E+03	1.0E+04	1	1	1.3E+04
ZIRCONIUM	7440-67-7	µg/Kg	1	0	2.1E+04	2.1E+04	2.1E+04	NC	NC	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

[1] TCLP indicates laboratory results were obtained using the toxic characterization leaching procedure. The criteria for selecting the metals data for this table are as follows:
(1) When a constituent is reported by two different methods for one sample, the result obtained by using the most sensitive analytical instrument, in most cases the ICP/MS, was used for determining characterization.
(2) When both TCLP and Totals data were obtained for a sample, the TCLP data were used as this is the preferred method to determine the characteristics of a solid waste.
[2] LERF Basin 44 contents include leachate, and fuel basin water, and other miscellaneous sources. Only one powder drum sample was obtained during the limited volume process test performed.
NOTE: For this statistical evaluation, all non-detect results were represented as MDL/2.
CAS # = Chemical Abstract Services number.
Count = number of times the constituent was analyzed.
Detects = number of times the laboratory analysis for the constituent was above the minimum detection level.
ICP/MS = inductively coupled plasma/mass spectrometer.
MDL = minimum detection level.
ND = no data.
NC = not calculated due to insufficient data to perform the statistics.
Upper 95 % CI = upper 95 percent confidence interval.
µg/Kg = micrograms per kilogram.
µg/L = micrograms per liter.

Table D-2. 200 Area Effluent Treatment Facility Listed Powder Characterization.

CONSTITUENTS (1)	CAS #	Units	GENERATED FROM WSCF LABORATORY WASTEWATER						
			Count	Detects	Minimum	Mean	Maximum	Standard Deviation	Upper 95 % CI
ALUMINUM	7429-90-5	µg/Kg	1	1	NC	NC	1.5E+04	NC	NC
ANTIMONY	7440-36-0	µg/Kg	1	1	NC	NC	4.3E+02	NC	NC
ARSENIC (TCLP)	7440-38-2	µg/L	4	4	7.8E+01	8.2E+01	8.5E+01	3.8E+00	8.8E+01
BARIUM (TCLP)	7440-39-3	µg/L	4	4	3.1E+02	3.3E+02	3.7E+02	2.9E+01	3.8E+02
BERYLLIUM	7440-41-7	µg/Kg	1	0	NC	NC	2.4E+01	NC	NC
CADMIUM (TCLP)	7440-43-9	µg/L	4	4	4.5E+00	1.1E+02	4.2E+02	2.1E+02	4.4E+02
CALCIUM	7440-70-2	µg/Kg	1	1	NC	NC	7.7E+07	NC	NC
CHROMIUM (TCLP)	7440-47-3	µg/L	4	4	2.3E+02	3.2E+02	3.8E+02	6.1E+01	4.2E+02
COBALT	7440-48-4	µg/Kg	1	1	NC	NC	2.9E+02	NC	NC
COPPER	7440-50-8	µg/Kg	1	1	NC	NC	1.6E+04	NC	NC
IRON	7439-89-6	µg/Kg	1	1	NC	NC	1.8E+05	NC	NC
LEAD (TCLP)	7439-92-1	µg/L	4	4	1.3E+03	1.4E+03	1.5E+03	8.1E+01	1.5E+03
MAGNESIUM	7439-95-4	µg/Kg	1	1	NC	NC	3.0E+07	NC	NC
MANGANESE	7439-96-5	µg/Kg	1	1	NC	NC	2.4E+03	NC	NC
MERCURY (TCLP)	7439-97-6	µg/L	3	3	5.3E+02	5.7E+02	6.3E+02	4.9E+01	7.0E+02
MOLYBDENUM	7439-98-7	µg/Kg	1	1	NC	NC	8.8E+03	NC	NC
NICKEL	7440-02-0	µg/Kg	1	1	NC	NC	4.8E+03	NC	NC
POTASSIUM	7440-09-7	µg/Kg	1	1	NC	NC	8.7E+06	NC	NC
SELENIUM (TCLP)	7782-49-2	µg/L	4	4	1.9E+02	2.0E+02	2.1E+02	8.8E+00	2.1E+02
SILVER (TCLP)	7440-22-4	µg/L	4	1	1.2E+00	1.7E+00	3.1E+00	9.3E-01	3.2E+00
SODIUM	7440-23-5	µg/Kg	1	1	NC	NC	1.7E+08	NC	NC
THALLIUM	7440-28-0	µg/Kg	1	1	NC	NC	1.9E+02	NC	NC
THORIUM	7440-29-1	µg/Kg	1	1	NC	NC	9.3E+01	NC	NC
TITANIUM	7440-32-6	µg/Kg	1	1	NC	NC	1.1E+04	NC	NC
URANIUM (TOTAL)	7440-61-1	µg/Kg	1	1	NC	NC	2.9E+05	NC	NC
VANADIUM	7440-62-2	µg/Kg	1	1	NC	NC	2.5E+04	NC	NC
ZINC	7440-66-6	µg/Kg	1	1	NC	NC	1.4E+04	NC	NC

[1] TCLP indicates laboratory results were obtained using the toxic characterization leaching procedure.
NOTE: For this statistical evaluation, all non-detect results were represented as MDL/2.
CAS # = Chemical Abstract Services number.
Count = number of times the constituent was analyzed.
Detects = number of times the laboratory analysis for the constituent was above the minimum detection level.
MDL = minimum detection level.
NC = not calculated due to insufficient data to perform the statistics.
Upper 95 % CI = upper 95 percent confidence interval.
µg/Kg = micrograms per kilogram.
µg/L = micrograms per liter.

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