	Sample ID	Antimony	Arsenic	Cadmium	ChromiumHI	ChromiumLO	Cobalt	Copper	Iron	Lead	Mercury	Molybdenum	Selenium	Silver	Thallium	Zinc
1 V	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	RAARCA1S1	72 J	77 U	210 U	770 J	350 U	1300 U	170 U	42000	700	110 U	8.6 J	57 U	130 U	11 U	1200
	RAARCA1S2	57 U	77 U	210 U	640 J	350 U	1300 U	200 J	34000	570	110 U	8.5 U	57 U	130 U	11 U	850
2 R	RAARCR1D1	57 U	77 U	210 U	440 U	350 U	1300 U	170 U	19000	82 U	110 U	8.5 U	57 U	130 U	22 J	170 U
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	RAARCR1S1	57 U	77 U	210 U	440 U	360 J	1300 U	170 U	36000	760	110 U	8.5 U	57 U	130 U	13 J	1200
	RAARCR1S2	57 U	77 U	210 U	440 U	350 U	1300 U	170 U	36000	640	110 U	8.5 U	57 U	130 U	16 J	1000
	RAARCR1S3	57 U	77 U	210 U	620 J	350 U	1300 U	170 U	36000	670	110 U	8.5 U	57 U	130 U	21 J	1000
3 R	RAARHA1D1	71 J	79 U	210 U	450 J	350 U	1300 U	170 U	28000	790	110 U	8.5 U	57 U	130 U	11 U	1400
	RAARHA1D1B	57 U	77 U	210 U	440 U	350 U	1300 U	170 U	3400 U	82 U	110 U	8.5 U	57 U	130 U	11 U	170 U
	RAARHA1S1	57 U	83 U	210 U	670 J	350 U	1300 U	170 U	29000	830	110 U	8.5 U	57 U	130 U	11 U	1700
	RAARHA1S2	72 J	77 U	210 U	440 U	350 U	1300 U	170 U	23000	180 J	110 U	8.5 U	57 U	130 U	16 J	330 J
4 R	RAARSC1D1	58 J	77 U	210 U	440 U	350 U	1300 U	170 U	28000	510	110 U	8.5 U	57 U	130 U	11 U	1700
	RAARSC1S1	130 J	92 U	210 U	440 U	350 U	1300 U	230 J	40000	920	110 U	8.5 U	57 U	130 U	11 U	1900
	RAARSC1S1B	57 U	77 U	210 U	440 J	350 U	1300 U	170 U	3400 U	82 U	110 U	8.5 U	57 U	130 U	11 U	170 U
	RAARSC1S2	73 J	77 U	210 U	820 J	350 U	1300 U	170 U	29000	510	110 U	8.5 U	57 U	130 U	29 J	2000
	RAARSC1S2D	57 U	77 U	210 U	440 U	350 U	1300 U	170 U	30000	560	110 U	8.5 U	57 U	130 U	15 J	2000
5 R	RAARTO1D1	57 U	77 U	210 U	440 U	350 U	1300 U	170 U	29000	280	110 U	8.5 U	57 U	130 U	12 J	610
	RAARTO1S1	78 J	77 U	210 U	440 U	350 U	1300 U	170 U	27000	390	110 U	8.5 U	57 U	130 U	22 J	780
	RAARTO1S2	57 U	97 U	210 U	440 U	350 U	1300 U	190 J	35000	970	110 U	8.5 U	57 U	130 U	25 J	1900
6 R	RAARTP1D1	57 U	150 U	210 U	1200 J	350 U	1300 U	280 J	31000	1300	110 U	9.6 J	57 U	130 U	11 U	1600
	RAARTP1S1	57 U	77 U	210 U	440 U	350 U	1300 U	170 U	28000	570	110 U	8.5 U	57 U	130 U	20 J	1500
	RAARTP1S2	57 U	82 U	210 U	440 U	350 U	1300 U	170 U	30000	820	110 U	8.5 U	57 U	130 U	26 J	1800
	RAARTP1S3	57 U	77 U	210 U	440 U	350 U	1300 U	170 U	19000	82 U	110 U	8.5 U	57 U	130 U	15 J	170 U
	RAARTP1S4	57 U	77 U	210 U	440 U	350 U	1300 U	170 U	15000	82 U	110 U	8.5 U	57 U	130 U	11 U	170 U
7 R	RAARWH1D1	57 U	283 U	210 U	440 U	350 U	1300 U	170 U	38000	2900	110 U	8.5 U	57 U	130 U	18 J	1400
	RAARWH1S1	70 J	120 U	210 U	460 J	350 U	1300 U	170 U	35000	1900	110 U	8.5 U	57 U	130 U	33 J	1700
	RAARWH1S2	57 U	410 U	210 U	830 J	350 U	1300 U	220 J	31000	4100	110 U	8.5 U	57 U	130 U	11 U	980
	RAARWH1S2D	57 U	490 U	210 U	440 U	350 U	1300 U	170 U	33000	4900	110 U	8.5 U	57 U	130 U	32 J	1100
8 R	RACASC1D1	57 U	77 U	210 U	440 U	350 U	1300 U	170 U	29000	370	110 U	8.5 U	57 U	130 U	15 J	1400
	RACASC1S1	57 U	77 U	210 U	440 U	350 U	1300 U	170 U	32000	770	110 U	8.5 U	57 U	130 U	13 J	2000
	RACASC1S2	57 U	77 U	210 U	440 U	350 U	1300 U	170 U	28000	610	110 U	8.5 U	57 U	130 U	18 J	1600
9 R	RACASC3D1	62 J	77 U	210 U	440 U	350 U	1300 U	170 U	31000	490	110 U	8.5 U	57 U	130 U	14 J	1800
	RACASC3S1	75 J	77 U	210 U	440 U	350 U	1300 U	170 U	26000	710	110 U	8.5 U	57 U	130 U	32 J	1800
	RACASC3S2	57 U	77 U	210 U	440 U	350 U	1300 U	170 U	30000	490	110 U	8.5 U	57 U	130 U	30 J	1800
	RACASC3S3	57 U	77 U	210 U	750 J	350 U	1300 U	170 U	24000	82 U	110 U	8.5 U	57 U	130 U	11 U	170 U
10 R	RACOAD1D1	54 U	100 U	150 U	940 U	470 U	870 U	110 U	35000	1000	97 U	11 U	16 U	84 U	14 U	1300
	RACOAD1S1	54 U	79 U	150 U	940 U	470 U	870 U	110 U	28000	790	97 U	11 U	16 U	84 U	26 J	1400
	RACOAD1S2	61 J	100 U	150 U	940 U	470 U	870 U	110 U	32000	1000	97 U	11 U	16 U	84 U	14 U	1200
11 R	RACOCA1D1	54 U	61 U	150 U	940 U	470 U	870 U	110 U	31000	550	97 U	11 U	16 U	84 U	17 J	920
	RACOCA1S1	43 J	74 U	190 U	580 U	340 U	610 J	90 U	34000	740	73 U	11 U	25 U	120 U	35	1200
	RACOCA1S2	31 J	58 U	190 U	580 U	340 U	460 J	90 U	29000	580	73 U	11 U	25 U	120 U	22 J	1500

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	Sample ID	Antimony	Arsenic	Cadmium	ChromiumHI	ChromiumLO	Cobalt	Copper	Iron	Lead	Mercury	Molybdenum	Selenium	Silver	Thallium	Zinc
12 R																
	RACOCA2S1	62 J	61 U	150 U	940 U	470 U	870 U	110 U	32000	550	97 U	11 U	16 U	84 U	19 J	2400
	RACOCA2S2	54 U	85 U	150 U	940 U	470 U	870 U	110 U	31000	850	97 U	11 U	16 U	84 U	17 J	1800
13 V	RACOCI1D1	54 U	61 U	150 U	940 U	470 U	870 U	110 U	35000	450	97 U	11 U	16 U	84 U	16 J	1300
	RACOCI1S1	54 U	85 U	150 U	940 U	470 U	870 U	110 U	38000	850	97 U	11 U	16 U	84 U	26 J	2500
	RACOCI1S2	59 J	89 J	150 U	940 U	470 U	870 U	110 U	42000	790	97 U	11 U	16 U	84 U	14 U	1800
14 V?	RACOCL1D1	71 J	53 J	190 U	580 U	340 U	320 U	90 U	30000	500	73 U	11 U	25 U	120 U	16 J	1600
	RACOCL1S1	44 J	33 U	190 U	580 U	340 U	320 U	90 U	35000	330	73 U	11 U	25 U	120 U	20 J	1300
	RACOCL1S2	37 J	20 U	190 U	580 U	340 U	320 U	90 U	19000	130	73 U	11 U	25 U	120 U	16 J	260
15 R	RACOJN1D1	29 U	21 J	190 U	580 U	340 U	470 J	90 U	28000	180	73 U	11 U	25 U	120 U	9.8 U	2000
	RACOJN1D1B	29 J	20 U	190 U	580 U	340 U	320 U	90 U	2000 U	38 U	73 U	11 U	25 U	120 U	9.8 U	68 U
	RACOJN1S1	29 U	32 J	190 U	580 U	340 U	370 J	90 U	24000	210	73 U	11 U	25 U	120 U	11 J	1200
	RACOJN1S2	57 J	58 J	190 U	640 J	340 U	320 U	90 U	31000	520	73 U	11 U	25 U	120 U	21 J	980
	RACOJN1S3	31 J	44 J	190 U	580 U	340 U	320 U	90 U	29000	340	73 U	11 U	25 U	120 U	32 J	970
16 R	RACOSH1D1	47 J	51 U	190 U	580 U	340 U	490 J	90 U	27000	510	73 U	11 U	25 U	120 U	16 J	1100
	RACOSH1D1D	29 U	53 U	190 U	580 U	340 U	660 J	90 U	27000	530	73 U	11 U	25 U	120 U	20 J	1000
	RACOSH1S1	54 U	61 U	150 U	940 U	470 U	870 U	110 U	30000	560	97 U	11 U	16 U	84 U	14 U	1300
	RACOSH1S2	54 U	61 U	150 U	940 U	470 U	870 U	110 U	27000	490	97 U	11 U	16 U	84 U	14 U	950
	RACOSH1S2B	54 U	61 U	150 U	940 U	470 U	870 U	110 U	1900 U	43 U	97 U	11 U	16 U	84 U	14 U	88 U
17 V?	RACOWH1D1	43 J	51 J	190 U	580 U	340 U	470 J	90 U	31000	240	73 U	11 U	25 U	120 U	22 J	1400
	RACOWH1S1	29 U	35 U	190 U	580 U	340 U	370 J	90 U	29000	360	73 U	11 U	25 U	120 U	14 J	710
	RACOWH1S2	29 U	82 U	190 U	580 U	340 U	320 U	90 U	38000	820	73 U	11 U	25 U	120 U	21 J	2200
18 R	RAEDSF1S1	91 J	110	190 U	580 U	340 U	590 J	90 U	48000	120 J	73 U	11 U	25 U	120 U	12 J	570
	RAEDSF1S2	81 J	30 U	190 U	580 U	340 U	620 J	90 U	43000	300	73 U	11 U	25 U	120 U	14 J	540
	RAEDSF1S3	48 J	73 U	190 U	580 U	340 U	1200	160 J	69000	730	73 U	11 U	25 U	120 U	23 J	530
19 R	RAGACA1D1	64 J	96 U	190 U	580 U	340 U	420 J	170 J	37000	960	73 U	11 U	25 U	120 U	13 J	2900
	RAGACA1D2	68 J	61 U	150 U	940 U	470 U	870 U	340 J	16000	43 U	97 U	11 U	16 U	84 U	14 U	4000
	RAGACA1D2B	54 U	61 U	150 U	940 U	470 U	870 U	110 U	1900 U	43 U	97 U	11 U	16 U	84 U	14 U	88 U
	RAGACA1S1	31 J	220 U	190 U	580 U	340 U	810 J	260 J	53000	2200	73 U	11 U	25 U	120 U	9.8 U	3000
	RAGACA1S2	41 J	52 J	190 U	580 U	340 U	540 J	380	25000	390	73 U	11 U	25 U	120 U	9.8 U	3600
20 ?.	RAGACN1D1	37 J	100 U	150 U	940 U	470 U	870 U	210 J	31000	1000	97 U	11 U	16 U	84 U	16 J	5400
	RAGACN1S1	34 U	130 U	150 U	940 U	470 U	870 U	170 J	36000	1300	97 U	11 U	16 U	84 U	23 J	6000
	RAGACN1S2	34 U	130 U	150 U	940 U	470 U	870 U	210 J	34000	1300	97 U	11 U	16 U	84 U	16 J	5000
21 R	RAGADO1D1	34 U	260 U	150 U	940 U	470 U	870 U	150 J	31000	2600	97 U	11 U	16 U	84 U	25 J	3800
	RAGADO1S1	34 U	120 U	150 U	940 U	470 U	870 U	110 U	24000	1200	97 U	11 U	16 U	84 U	16 J	9000
	RAGADO1S2	34 U	230 U	150 U	940 U	470 U	870 U	240 J	36000	2300	97 U	11 U	16 U	84 U	14 U	4300
22 R	RAGAEN1D1	34 U	130 U	150 U	940 U	470 U	870 U	110 U	24000	1400	97 U	11 U	16 U	84 U	40 J	3400
	RAGAEN1S1	54 U	85 U	150 U	940 U	470 U	870 U	150 J	30000	850	97 U	11 U	16 U	84 U	14 U	3500
	RAGAEN1S2	34 U	190 U	150 U	940 U	470 U	870 U	190 J	32000	1900	97 U	11 U	16 U	84 U	16 J	3900
23 R	RAGAGA1D1	59 J	77 U	210 U	440 U	350 U	1300 U	170 U	31000	530	110 U	8.5 U	57 U	130 U	14 J	1500
	RAGAGA1S1	57 U	77 U	210 U	530 J	350 U	1300 U	170 U	30000	630	110 U	8.5 U	57 U	130 U	11 U	2600
	RAGAGA1S2	57 U	77 U	210 U	440 U	350 U	1300 U	170 U	24000	300	110 U	8.5 U	57 U	130 U	23 J	970

Sample ID	Antimony	Arsenic	Cadmium	ChromiumHI	ChromiumLO	Cobalt	Copper	Iron	Lead	Mercury	Molybdenum	Selenium	Silver	Thallium	Zinc
24 ? RAGAHO1D1	54 U	61 U	150 U	940 U	470 U	870 U	110 U	30000	500	97 U	11 U	16 U	84 U	20 J	1000
RAGAHO1D1D	54 U	61 U	150 U	940 U	470 U	870 U	110 U	32000	600	97 U	11 U	16 U	84 U	20 J	940
RAGAHO1S1	54 U	61 U	150 U	940 U	470 U	870 U	110 U	19000	170	97 U	11 U	16 U	84 U	14 U	420
RAGAHO1S2	78 J	61 U	150 U	940 U	470 U	870 U	110 U	21000	230	97 U	11 U	16 U	84 U	14 U	450
RAGAHO1S3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
RAGAHO1S3B	54 U	61 U	150 U	940 U	470 U	870 U	110 U	1900 U	43 U	97 U	11 U	16 U	84 U	14 U	88 U
25 R RAGAKZ1D1	54 U	69 J	150 U	940 U	470 U	870 U	110 U	27000	520	97 U	11 U	16 U	84 U	14 U	1400
RAGAKZ1S1	54 U	67 U	150 U	940 U	470 U	870 U	110 U	27000	670	97 U	11 U	16 U	84 U	14 U	1400
RAGAKZ1S2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
RAGAKZ1S3	54 U	70 U	150 U	940 U	470 U	870 U	110 U	26000	700	97 U	11 U	16 U	84 U	14 U	1500
26 R RAGLLA1D1	54 U	61 U	150 U	940 U	470 U	870 U	110 U	31000	240	97 U	15 J	16 U	84 U	15 J	610
RAGLLA1S1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
RAGLLA1S2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
RAGLLA1S3	54 U	61 U	150 U	940 U	470 U	870 U	110 U	19000	110 J	97 U	11 U	16 U	84 U	14 U	340
RAGLLA1S4	54 U	76 U	150 U	940 U	470 U	870 U	110 U	25000	760	97 U	11 U	16 U	84 U	14 U	1300
27 R RAHALI1D1	57 U	77 U	210 U	440 U	350 U	1300 U	170 U	11000 J	82 U	110 U	8.5 U	57 U	130 U	19 J	170 U
RAHALI1S1	57 U	77 U	210 U	440 U	350 U	1300 U	170 U	18000	230 J	110 U	8.5 U	57 U	130 U	11 U	310 J
RAHALI1S2	57 U	77 U	210 U	440 U	350 U	1300 U	170 U	28000	620	110 U	8.5 U	57 U	130 U	11 U	960
28 RAHARE01	45 J	460 U	190 U	870 J	340 U	260 J	90 U	6000	2400	73 U	11 U	25 U	120 U	27 J	4100
RAHARE02	39 J	460 U	190 U	330 J	340 U	140 J	90 U	7000	1600	73 U	11 U	25 U	120 U	23 U	860
RAHARE03	140	630 U	190 U	2600	340 U	770 J	120 J	11000	36000	280 J	13 J	25 U	120 U	88	22000
RAHARE04	39 J	430 U	190 U	580 U	340 U	720 J	450 J	11000	4300	73 U	11 U	25 U	120 U	19 J	9200
RAHARE05	64 J	830 U	190 U	580 U	340 U	730 J	550	13000	8300	73 U	11 U	25 U	120 U	20 J	6100
RAHARE06	36 J	240 U	190 U	970 J	340 U	1100 J	180 J	13000	2400	73 U	11 U	25 U	120 U	23 U	1900
RAHARE07	29 U	160 U	190 U	580 U	340 U	360 J	90 U	11000	1600	73 U	11 U	25 U	120 U	12 J	1700
RAHARE08	32 J	310 U	190 U	580 U	340 U	730 J	140	12224	3100	73 U	19 J	25 U	120 U	23 U	1700
RAHARE09	33 J	290 U	190 U	580 U	340 U	320 U	90 U	13000	2900	73 U	11 U	25 U	120 U	16 J	1400
29 R RAHARE1D1	57 U	360 U	210 U	470 J	350 U	1300 U	240 J	13000	3600	110 U	11 J	57 U	130 U	24 J	2300
RAHARE1S1	57 U	240 U	210 U	440 U	350 U	1300 U	170 U	13000	2400	110 U	8.5 U	57 U	130 U	18 J	2100
RAHARE1S3	57 U	77 U	210 U	440 U	350 U	1300 U	170 U	9600 J	82 U	110 U	8.5 U	57 U	130 U	16 J	170 U
30 R RAHARO1D1	63 J	290 U	210 U	700 J	350 U	1300 U	410 J	21000	2900	110 U	11 J	57 U	130 U	11 U	3400
RAHARO1S1	97 J	300 U	210 U	1300 J	350 U	1300 U	470 J	31000	3000	110 U	8.5 U	57 U	130 U	11 U	3300
RAHARO1S2	57 U	240 U	210 U	550 J	350 U	1300 U	320 J	40000	2400	110 U	8.5 U	57 U	130 U	13 J	2500
30 R RAHICN1D1	54 U	87 U	150 U	940 U	470 U	870 U	110 U	33000	870	97 U	11 U	16 U	84 U	15 J	3300
RAHICN1S1	54 U	130 U	150 U	940 U	470 U	870 U	140 J	29000	1300	97 U	11 U	16 U	84 U	18 J	3100
RAHICN1S2	54 U	130 U	150 U	940 U	470 U	870 U	110 U	33000	1300	97 U	11 U	16 U	84 U	22 J	2900
32 R RAHYFS1D1	41 J	27 J	190 U	580 U	340 U	320 U	90 U	25000	43 J	73 U	11 U	25 U	120 U	11 J	1900
8/9 RAHYFS1S1	39 J	36 J	190 U	580 U	340 U	320 U	90 U	26000	85 J	73 U	11 U	25 U	120 U	13 J	310
RAHYFS1S2	65 J	25 J	190 U	580 U	340 U	320 U	90 U	27000	47 J	73 U	11 U	25 U	120 U	19 J	270
33 RAKICA1D1	57 U	77 U	210 U	440 U	350 U	1300 U	170 U	36000	220 J	110 U	9.2 J	57 U	130 U	11 U	2200
RAKICA1S1	57 U	77 U	210 U	530 J	350 U	1300 U	170 U	27000	300	110 U	8.5 U	57 U	130 U	17 J	770
RAKICA1S2	57 U	77 U	210 U	440 U	350 U	1300 U	170 U	37000	450	110 U	15 J	57 U	130 U	22 J	1700

	Sample ID	Antimony	Arsenic	Cadmium	ChromiumHI	ChromiumLO	Cobalt	Copper	Iron	Lead	Mercury	Molybdenum	Selenium	Silver	Thallium	Zinc
34 R	RAMAHE1D1	33 J	52 U	190 U	580 U	340 U	620 J	90 U	33000	520	73 U	11 U	25 U	120 U	10 J	840
	RAMAHE1S1	54 U	71 U	150 U	940 U	470 U	870 U	110 U	33000	710	97 U	11 U	16 U	84 U	17 J	1100
35	RAMIWL1D1	41 J	24 U	190 U	580 U	340 U	320 J	90 U	22000	240	73 U	11 U	25 U	120 U	18 J	950
	RAMIWL1S1	42 J	20 U	190 U	580 U	340 U	320 U	90 U	18000	38 U	73 U	11 U	25 U	120 U	19 J	140 J
	RAMIWL1S2	42 J	46 U	190 U	580 U	340 U	370 J	90 U	24000	460	73 U	11 U	25 U	120 U	9.8 U	1100
36 R	RAPIME1D1	30 J	20 U	190 U	580 U	340 U	320 U	90 U	25000	89 J	73 U	11 U	25 U	120 U	9.8 U	480
	RAPIME1S1	29 U	26 J	190 U	580 U	340 U	380 J	90 U	25000	63 J	73 U	11 U	25 U	120 U	17 J	370
	RAPIME1S2	72 J	20 U	190 U	580 U	340 U	530 J	90 U	22000	150	73 U	11 U	25 U	120 U	20 J	360
38 R	RAPKMI1D1	49 J	33 J	190 U	630 J	340 U	380 J	90 U	47000	38 U	73 U	11 U	25 U	120 U	19 J	260
	RAPKMI1S1	65 J	71	190 U	580 U	340 U	320 U	90 U	50000	170	73 U	11 U	25 U	120 U	15 J	370
	RAPKMI1S2	76 J	99	190 U	580 U	340 U	350 J	180 J	50000	600	73 U	11 U	25 U	120 U	13 J	660
38 ?	RAPKWT1D1	29 U	33 J	190 U	580 U	340 U	320 U	90 U	46000	160	73 U	11 U	25 U	120 U	25 J	560
	RAPKWT1S1	37 J	59 J	190 U	580 U	340 U	480 J	90 U	51000	160	73 U	11 U	25 U	120 U	18 J	420
	RAPKWT1S2	29 U	77	190 U	580 U	340 U	830 J	90 U	50000	400	73 U	11 U	25 U	120 U	20 J	530
39 R	RARIFE1D1	57 U	77 U	210 U	460 J	350 U	1300 U	170 U	24000	200 J	110 U	8.5 U	57 U	130 U	11 U	430 J
	RARIFE1D1D	57 U	77 U	210 U	580 J	350 U	1300 U	170 U	27000	250 J	110 U	8.5 U	57 U	130 U	11 U	480 J
	RARIFE1S1	57 U	77 U	210 U	440 U	350 U	1300 U	170 U	26000	330	110 U	8.5 U	57 U	130 U	11 U	530 J
	RARIFE1S2	71 J	77 U	210 U	440 U	350 U	1300 U	170 U	26000	260 J	110 U	8.5 U	57 U	130 U	11 U	450 J
	RARIFE1S3	57 U	77 U	210 U	440 U	350 U	1300 U	170 U	27000	340	110 U	8.9 J	57 U	130 U	20 J	870
	RARIFE1S3B	57 U	77 U	210 U	440 U	350 U	1300 U	170 U	3400 U	82 U	110 U	8.5 U	57 U	130 U	11 U	170 U
40 R	RARIGS1D1	29 U	61 U	190 U	580 U	340 U	320 U	90 U	25000	610	73 U	11 U	25 U	120 U	20 J	1400
	RARIGS1S1	33 J	130 U	190 U	580 U	340 U	1100	90 U	31000	1300	73 U	11 U	25 U	120 U	12 J	3000
	RARIGS1S1D	33 J	120 U	190 U	580 U	370 J	1000 J	90 U	29000	1200	73 U	11 U	25 U	120 U	14 J	2800
	RARIGS1S2	38 J	130 U	190 U	580 U	340 U	320 J	90 U	31000	1300	73 U	11 U	25 U	120 U	30 J	3000
	RARIGS1S3	83 J	84 U	190 U	780 J	340 U	370 J	90 U	27000	850	73 U	11 U	25 U	120 U	13 J	1200
41 R	RARILE1D1	57 U	82 U	210 U	570 J	350 U	1300 U	170 U	31000	820	110 U	8.5 U	57 U	130 U	15 J	1200
	RARILE1S1	57 U	100 U	210 U	520 J	350 U	1300 U	170 U	30000	1000	110 U	8.5 U	57 U	130 U	11 U	1200
	RARILE1S2	57 U	77 U	210 U	440 U	350 U	1300 U	170 U	30000	570	110 U	8.5 U	57 U	130 U	21 J	1100
	RARILE1S3	62 J	77 U	210 U	440 J	350 U	1300 U	170 U	16000	150 J	110 U	8.5 U	57 U	130 U	11 U	390 J
42	RASDGR1D1	29 U	20 U	190 U	580 U	340 U	320 U	90 U	14000	38 U	73 U	11 U	25 U	120 U	11 J	99 J
	RASDGR1S1	29 U	20 U	190 U	580 U	340 U	320 U	90 U	24000	38 U	73 U	11 U	25 U	120 U	9.8 U	150 J
	RASDGR1S1B	29 U	20 U	190 U	580 U	340 U	320 U	90 U	2000 U	38 U	73 U	11 U	25 U	120 U	9.8 U	68 U
	RASDGR1S2	55 J	22 J	190 U	580 U	340 U	500 J	90 U	27000	44 J	73 U	11 U	25 U	120 U	9.8 U	250
	RASDGR1S2D	50 J	20 U	190 U	580 U	340 U	350 J	90 U	25000	38 U	73 U	11 U	25 U	120 U	29 J	180 J
	RASDGR1S3	31 J	20 U	190 U	580 U	340 U	320 U	90 U	28000	38 U	73 U	11 U	25 U	120 U	19 J	130 J
	RASDGR1S4	40 J	21 J	190 U	580 U	340 U	320 U	90 U	32000	38 U	73 U	11 U	25 U	120 U	21 J	210 J
43 ?	RASHBE1D1	54 U	61 U	150 U	940 U	470 U	870 U	110 U	25000	450	97 U	11 U	16 U	84 U	19 J	930
	RASHBE1S1	34 U	130 U	150 U	940 U	470 U	870 U	110 U	32000	1300	97 U	11 U	16 U	84 U	21 J	1700
	RASHBE1S2	62 J	140 U	150 U	940 U	470 U	870 U	110 U	33000	1400	97 U	11 U	16 U	84 U	28 J	2600
44 R	RASHCO1D1	68 J	120 U	150 U	940 U	470 U	870 U	150 J	30000	1200	97 U	11 U	16 U	84 U	28 J	3200
	RASHCO1S1	34 U	220 U	150 U	940 U	470 U	870 U	190 J	33000	2200	97 U	11 U	16 U	84 U	28 J	4500

	Sample ID	Antimony	Arsenic	Cadmium	ChromiumHI	ChromiumLO	Cobalt	Copper	Iron	Lead	Mercury	Molybdenum	Selenium	Silver	Thallium	Zinc
	RASHDA1S1	54 U	61 U	150 U	940 U	470 U	870 U	110 U	1900 U	43 U	97 U	11 U	16 U	84 U	8.5 U	88 U
45	RASHDA1D1	54 U	61 U	150 U	940 U	470 U	870 U	110 U	35000	460	97 U	11 U	16 U	84 U	14 U	910
	RASHDA1S2	54 U	61 U	150 U	940 U	470 U	870 U	110 U	1900 U	43 U	97 U	11 U	16 U	84 U	8.5 U	88 U
	RASICU1S3	54 U	61 U	150 U	940 U	470 U	870 U	110 U	1900 U	43 U	97 U	11 U	16 U	84 U	8.5 U	88 U
46 ✓	RASICU1D1	57 U	77 U	210 U	700 J	350 U	1300 U	170 U	25000	82 U	110 U	8.5 U	57 U	130 U	11 U	310 J
	RASICU1S1	69 J	77 U	210 U	440 U	350 U	1300 U	170 U	31000	330	110 U	8.5 U	57 U	130 U	14 J	380 J
	RASICU1S2	57 U	77 U	210 U	440 U	350 U	1300 U	170 U	27000	82 U	110 U	8.5 U	57 U	130 U	11 U	310 J
47 ✓	RASIKI1D1	66 J	77 U	210 U	440 U	350 U	1300 U	170 U	29000	82 U	110 U	8.5 U	57 U	130 U	11 U	210 J
	RASIKI1S1	57 U	77 U	210 U	860 J	350 U	1300 U	170 U	35000	210 J	110 U	12 J	57 U	130 U	11 U	340 J
	RASIKI1S2	57 U	77 U	210 U	440 U	350 U	1300 U	170 U	36000	170 J	110 U	8.5 U	57 U	130 U	17 J	300 J
48 ✓	RASIST1D1	57 U	77 U	210 U	570 J	350 U	1300 U	170 U	30000	86 J	110 U	12 J	57 U	130 U	30 J	270 J
	RASIST1S1	70 J	77 U	210 U	440 U	350 U	1300 U	170 U	28000	260 J	110 U	8.5 U	57 U	130 U	11 U	500 J
	RASIST1S1D	57 U	77 U	210 U	870 J	350 U	1300 U	170 U	31000	250 J	110 U	8.5 U	57 U	130 U	26 J	440 J
	RASIST2S1	57 U	77 U	210 U	680 J	350 U	1300 U	170 U	29000	230 J	110 U	8.5 U	57 U	130 U	13 J	420 J
	RASIST3S1	57 U	77 U	210 U	440 U	350 U	1300 U	170 U	28000	82 U	110 U	8.5 U	57 U	130 U	17 J	220 J
49 R	RASOB01D1	54 U	61 U	150 U	940 U	470 U	870 U	110 U	18000	1800	97 U	11 U	16 U	84 U	20 J	2000
	RASOB01S1	54 U	61 U	150 U	940 U	470 U	870 U	110 U	21000	550	97 U	11 U	16 U	84 U	37 J	800
	RASOB01S2	54 U	140 U	150 U	940 U	470 U	870 U	110 U	15000	1900	97 U	11 U	16 U	84 U	16 J	1500
50 ?	RASOHE1D1	54 U	920 U	150 U	1100 J	470 U	870 U	270 J	17000	9700	97 U	11 U	16 U	84 U	20 J	18000
	RASOHE1S1	54 U	61 U	150 U	940 U	470 U	870 U	110 U	20000	300	97 U	11 U	16 U	84 U	17 J	560
	RASOHE1S2	99 J	1850 U	150 U	940 U	470 U	870 U	270 J	15000	18000	97 U	11 U	16 U	84 U	39 J	18000
	RASOHE1S2B	54 U	61 U	150 U	940 U	470 U	870 U	110 U	1900 U	43 J	97 U	11 U	16 U	84 U	14 U	88 U
—	RASOHE1S3	62 J	230 U	150 U	940 U	470 U	870 U	150 J	26000	2300	97 U	11 U	16 U	84 U	22 J	3300
	RASOHE1S3D	54 U	220 U	150 U	940 U	470 U	870 U	240 J	28000	2100	97 U	11 U	20 J	84 U	31 J	3100
51 R	RASOIR1D1	54 U	73 J	150 U	940 U	470 U	870 U	110 U	30000	520	97 U	11 U	16 U	84 U	31 J	800
	RASOIR1S1	54 U	68 U	150 U	940 U	470 U	870 U	110 U	26000	680	97 U	11 U	16 U	84 U	27 J	1000
	RASOIR1S2	54 J	89 J	150 U	940 U	470 U	870 U	110 U	26000	670	97 U	11 U	16 U	84 U	21 J	880
52	RASVCN1D1	54 U	180 U	150 U	940 U	470 U	870 U	220 J	29000	1800	97 U	11 U	16 U	84 U	14 U	4800
	RASVCN1D1B	54 U	61 U	150 U	940 U	470 U	870 U	110 U	1900 U	43 U	97 U	11 U	16 U	84 U	14 U	88 U
	RASVCN1S1	54 U	270 U	150 U	940 U	470 U	870 U	180 J	31000	2700	97 U	11 U	16 U	84 U	16 J	4400
	RASVCN1S2	54 U	230 U	150 U	940 U	470 U	870 U	240 J	33000	2300	97 U	11 U	16 U	84 U	14 U	4700
53 R	RASVCN2D1	56 J	270 U	150 U	940 U	470 U	870 U	180 J	36000	2700	97 U	11 U	16 U	84 U	32 J	4500
	RASVCN2S1	54 U	190 U	150 U	940 U	470 U	870 U	300 J	39000	1900	97 U	11 U	16 U	84 U	14 U	6700
	RASVCN2S1D	54 U	190 U	150 U	940 U	470 U	870 U	160 J	38000	1900	97 U	11 U	16 U	84 U	20 J	6600
	RASVCN2S2	55 J	240 U	150 U	940 U	470 U	870 U	110 U	38000	2400	97 U	11 U	16 U	84 U	16 J	3500
54 R	RASVFO1D1	51 J	28 J	190 U	580 U	340 U	320 U	90 U	26000	150	73 U	11 U	25 U	120 U	9.8 U	860
	RASVFO1S1	29 U	82 U	190 U	580 U	340 U	320 U	100 J	33000	820	73 U	11 U	25 U	120 U	31 J	2300
	RASVFO1S1D	47 J	79 U	190 U	580 U	340 U	320 U	110 J	35000	790	73 U	11 U	25 U	120 U	12 J	2500
	RASVFO1S2	78 J	36 U	190 U	580 U	340 U	320 U	90 U	29000	360	73 U	11 U	25 U	120 U	18 J	1100
55 R	RASVFO2D1	91 J	120 U	150 U	940 U	470 U	870 U	140 U	38000	1200	97 U	11 U	16 U	84 U	18 J	4800
	RASVFO2S1	54 U	140 U	150 U	940 U	470 U	870 U	110 U	38000	1300	97 U	11 U	16 U	84 U	19 J	4100
	RASVFO2S2	100 J	150 U	150 U	940 U	470 U	870 U	140 J	38000	1500	97 U	11 U	16 U	84 U	19 J	1800

Sample ID	Antimony	Arsenic	Cadmium	ChromiumHI	ChromiumLO	Cobalt	Copper	Iron	Lead	Mercury	Molybdenum	Selenium	Silver	Thallium	Zinc
56 RASVFO3D1	54 U	61 U	150 U	940 U	470 U	870 U	110 U	26000	460	97 U	11 U	16 U	84 U	20 J	3300
RASVFO3S1	68 J	87 U	150 U	940 U	470 U	870 U	110 U	29000	870	97 U	11 U	16 U	84 U	24 J	3100
RASVFO3S2	54 U	72 U	150 U	940 U	470 U	870 U	110 U	32000	720	97 U	11 U	16 U	84 U	20 J	3300
57 RASVKR1D1	51 J	37 J	190 U	600 J	340 U	320 U	190 J	31000	84 J	73 U	11 U	25 U	120 U	17 J	2900
RASVKR1S1	37 J	29 U	190 U	700 J	340 U	320 U	90 U	41000	290	73 U	11 U	25 U	120 U	9.8 U	2300
RASVKR1S2	29 U	20 U	190 U	650 J	340 U	370 J	90 U	30000	78 J	73 U	11 U	25 U	120 U	14 J	1600
58 [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Lead ≥1,000 ppm

999 ppm ≥ Lead ≥ 700 ppm

699 ppm ≥ Lead ≥ 500 ppm

D = Depth = < 12" (grab)

S = surface = < 6" (composite)

TECH. SUPPORT DOC. FOR Pb

IEUBK-
INTEGRATED
EXPOSURE
UPTAKE
BIOKINETIC
MODEL.

USE
TO PUT INTO
MODEL OF
BIOAVAILABILITY
INSTEAD OF
DEFAULT VAL.

DRAFT DOC. - PEER REV.

- IN-VITRO STUDY w/ DR. DRELLER
- SWINE STUDY IS GOLD STD.
  IN-VIVO "
- SHOWING THEY ARE COMPARABLE.
  & SUPPORT DR. DRELLER'S
  IN-VITRO STUDY.
- PUBLIC REV. IN JAN. 04

→ WILL GIVE ACTION LEVEL BASED ON INPUT
PARAMATERS.