	A	B	C	D	E	F	G	H	I	J	K	L	M
1	**Attachment D2**												
2													
3	**Tacoma Smelter Plume Site**												
4													
5	**Analytical Results, Extended Trace Elements List**												
6	**Initial Sample Group, King County Mainland**												
7													
8													
9	***BATTELLE MARINE SCIENCE LABORATORIES***												
10	1529 West Sequim Bay Road										**KING COUNTY - ONSITE EN**		
11	Sequim, Washington 98382-9099										METALS IN SOILS SCREE		
12	360/681-3604											(Samples Received	
13													
14			**Percent**									(concentrations in µg/	
15	**MSL Code**	**Sponsor ID**	**Dry Wt.**		Ag		Hg		V		Cr		Co
16					GFAA		CVAA		ICP-MS		ICP-MS		ICP-MS
17													
18	1664-1	ORCHARD-	74.1		0.0528		0.0115		124		39.4		17.5
19	1664-2	ORCHARD-	80.9		0.0635		0.0106		128		41.3		18.2
20	1664-3	ORCHARD-	82.5		0.0554		0.0158		117		41.5		17.5
21	1664-4	ORCHARD-	83.6		0.0533		0.0165		118		47.0		18.4
22	1664-5	ORCHARD-	87.6		0.0990		0.0483		135		57.5		18.9
23	1664-6	ORCHARD-	87.2		0.0930		0.0400		150		55.0		20.0
24	1664-7	ORCHARD-	81.9		0.0820		0.0396		130		53.8		18.3
25	1664-8	ORCHARD-	84.7		0.0770		0.0238		127		49.3		18.0
26													
27	1664-9	1-60-1-2-1	59.7		1.21		1.04		61.7		62.9		8.76
28	1664-10	1-60-1-2-2	87.7		0.186		0.130		94.4		75.3		10.7
29	1664-11	1-79-1-1-1	49.6		0.306		1.26		20.4		17.1		2.06
30	1664-12	1-79-1-1-2	56.3		0.542		1.47		26.6		19.8		2.85
31	1664-13	1-74-1-1-1	61.8		0.164		0.227		37.4		26.6		3.75
32	1664-14	1-74-1-1-2	73.0		0.211		0.223		67.6		40.7		8.37
33	1664-15	1-37-1-2-1	48.2		0.310		0.628		21.9		19.3		1.77
34	1664-16	1-37-1-2-2	78.4		0.651		1.56		47.6		36.1		3.14
35	1664-17	1-46-1-2-1	45.4		0.844		1.23		31.1		29.5		2.77
36	1664-18	1-46-1-2-2	71.5		0.337		0.361		73.5		72.1		5.99

	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1													
2													
3													
4													
5													
6													
7													
8													
9													
10	**IVIRONMENTAL**												
11	ENING STUDY												
12	6/1/01)												
13													
14	/g dry wt)												
15		Ni		Cu		Zn		Ga		Ge		As	
16		ICP-MS		ICP-MS		ICP-MS		ICP-MS		ICP-MS		ICP-MS	
17													
18		22.3		27.2		106		19.7		1.36		16.7	
19		23.8		26.7		101		20.7		1.48		21.3	
20		22.4		25.5		112		20.3		1.33		15.2	
21		23.5		27.8		114		21.3		1.56		26.9	
22		31.7		33.4		134		20.6		1.74		47.0	
23		29.6		32.5		122		19.8		1.77		40.2	
24		27.3		30.5		97.9		20.4		1.68		76.2	
25		26.2		29.6		91.8		19.4		1.70		77.8	
26													
27		30.3		205		152		9.04		1.06		146	
28		48.5		32.8		86.6		14.9		1.39		26.8	
29		17.8		70.9		99.3		2.75		0.267		40.8	
30		22.1		103		113		3.38		0.385		61.7	
31		19.5		33.1		56.6		6.21		0.585		10.8	
32		23.4		33.3		60.4		11.5		1.18		28.6	
33		14.3		66.6		74.5		2.67		0.320		24.4	
34		32.5		165		146		4.92		1.12		86.6	
35		22.2		93.4		101		4.34		0.606		70.6	
36		28.3		44.8		47.3		11.0		1.29		67.2	

	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM
1													
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15	Se		Br		Y		Mo		Ru		Rh		Pd
16	ICP-MS		ICP-MS		ICP-MS		ICP-MS		ICP-MS		ICP-MS		ICP-MS
17													
18	0.261		2320		2400		0.712		0.00		0.0124		0.396
19	0.665		2760		2430		0.638		0.00699		0.0172		0.463
20	0.723		3440		2400		0.743		0.00156		0.0127		0.385
21	0.581		4370		3750		0.765		0.00		0.0179		0.528
22	0.487		4120		4890		0.817		0.00555		0.0151		0.500
23	1.07		3720		4040		0.806		0.00		0.0130		0.357
24	0.707		4820		4990		0.857		0.00		0.0176		0.436
25	0.694		4930		3800		0.802		0.00671		0.0166		0.444
26													
27	1.79		12000		1780		1.86		0.00		0.0239		0.218
28	0.895		11300		2670		0.574		0.00351		0.00711		0.194
29	0.549		14800		968		1.92		0.00		0.0107		0.0
30	1.06		19700		874		1.76		0.00		0.0153		0.142
31	0		6390		1320		0.857		0.00		0.00736		0.129
32	0.705		11900		2280		0.612		0.000166		0.00813		0.182
33	0.589		9070		803		1.37		0.00		0.00747		0.0794
34	1.96		14500		1440		1.07		0.00		0.0184		0.0873
35	1.26		9290		1440		1.38		0.00		0.00925		0.213
36	0.964		8330		2170		0.498		0.00		0.00949		0.214

	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ
1													
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15		Cd		In		Sn		Sb		I		Te	
16		ICP-MS		ICP-MS		ICP-MS		ICP-MS		ICP-MS		ICP-MS	
17													
18		0.379		0.0469		1.50		0.528		0.00		1.93	
19		0.225		0.0500		1.57		0.588		0.00		1.57	
20		0.341		0.0456		1.45		0.526		0.00		2.55	
21		0.226		0.0480		1.61		0.713		6.44		0.821	
22		0.313		0.0631		2.37		1.19		0.00		2.59	
23		0.296		0.0693		2.03		1.16		0.00		3.57	
24		0.251		0.0559		1.76		0.850		0.00		4.97	
25		0.204		0.0574		1.72		0.910		0.00		4.14	
26													
27		3.48		0.916		15.4		27.7		0.00		51.3	
28		0.606		0.0771		1.61		3.14		0.00		14.9	
29		0.875		0.151		3.59		11.5		0.00		13.1	
30		1.43		0.382		6.82		21.2		0.00		24.6	
31		0.221		0.036		1.94		2.64		0.00		3.97	
32		1.17		0.121		2.60		4.10		27.8		8.99	
33		0.395		0.105		8.74		6.84		0.00		8.15	
34		0.616		0.585		14.2		20.7		0.00		40.8	
35		0.715		0.321		7.71		16.8		0.00		42.2	
36		0.579		0.163		2.95		6.19		89.2		18.0	

	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM
1													
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15	Cs		La		Ce		Sm		Yb		W		Pt
16	ICP-MS		ICP-MS		ICP-MS		ICP-MS		ICP-MS		ICP-MS		ICP-MS
17													
18	0.572		11.8		26.0		49700		0.912		1.88		0.0472
19	0.582		13.0		30.9		48500		0.894		2.00		0.0456
20	0.587		10.3		24.7		44300		0.796		1.88		0.0620
21	1.14		15.9		35.9		61900		1.31		2.42		0.0521
22	2.23		19.3		45.4		78800		1.88		4.03		0.0519
23	1.57		16.1		37.0		66300		1.57		3.10		0.0478
24	1.88		17.1		40.6		72500		1.57		3.48		0.0651
25	1.39		15.3		35.8		63500		1.41		3.56		0.0543
26													
27	0.747		7.06		13.1		20300		0.551		2.05		0.0233
28	1.29		9.72		22.8		31500		0.802		1.65		0.0399
29	0.254		2.46		4.22		7730		0.198		1.98		0.00951
30	0.300		3.06		5.57		9950		0.268		1.67		0.00878
31	0.529		4.31		8.85		14100		0.432		1.19		0.0156
32	0.965		8.37		18.3		28000		0.765		1.46		0.0181
33	0.255		2.38		4.10		6600		0.241		1.31		0.00869
34	0.412		3.09		7.58		12400		0.398		1.30		0.0122
35	0.425		5.25		9.15		15000		0.330		1.31		0.0128
36	0.646		9.54		20.5		31500		0.746		1.10		0.0193

	BN	BO	BP	BQ	BR	BS	BT	BU	BV	BW
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15		Au		Tl		Pb		Po 210.98		Bi
16		ICP-MS		ICP-MS		ICP-MS		ICP-MS		ICP-MS
17										
18		1.41		0.352		110		16.7		0.242
19		1.22		0.341		112		3.31		0.241
20		1.65		0.355		129		4.29		0.248
21		1.38		0.445		193		0.0		0.318
22		1.79		0.543		241		1.64		0.330
23		1.95		0.442		206		16.6		0.279
24		1.45		0.576		364		0.0		0.347
25		1.45		0.573		361		0.0		0.330
26										
27		2.75		0.680		705		0.0		9.05
28		0.998		0.226		27.5		0.0		0.433
29		0.531		0.268		355		0.0		2.06
30		0.608		0.359		482		0.0		3.55
31		0.729		0.124		61.9		0.0		0.362
32		0.697		0.259		81.4		10.3		0.813
33		0.642		0.155		200		8.25		1.27
34		1.88		0.369		533		0.00		4.66
35		1.67		0.232		265		0.00		3.86
36		1.05		0.230		135		5.63		1.95