TABLE 1: PHASE II SOIL SAMPLING RESULTS 2014 (page 1)

Summary of Soil and Sediment Chemical Analytical Results [1]
Total Metals and TCLP Metals
Brazil Motors Property Brownfields Project
4315 NW St. Helens Road
Portland, Oregon

Sample I.D. (depth in feet)	Sample Date	Total Metals by EPA 6000/7000 Series Methods (mg/kg)									TCLP Metals by EPA Method 6010C (mg/L)		
		Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Zinc	Arsenic	Chromium	Lead
SS-1(0-0.5)	05/07/14	7.54	0.507	26.2	27.2	53.5	0.048	16.1	0.20 J	136	–	–	–
CB-SED-1	05/07/14	140	2.32	61.8	425	840	0.142	28.0	0.42 J	1,630	0.025	–	0.214
DUP-DP-1(0-1)	05/07/14	4.72	0.362	31.0	20.2	9.63	0.029	19.2	0.23 J	149	--	--	--
DP-1(0-1)	05/07/14	3.73	0.349	26.9	19.0	12.2	0.027	16.9	0.20 J	141	--	–	--
DP-1(2.5-3.5)	05/07/14	--	--	--	--	--	--	--	--	--	--	--	--
DP-2(0-1)	05/07/14	375	4.470	147	543.0	1,140	0.180	62.0	0.59 J	2,850	0.09	0.055	0.666
DP-2(2-3)	05/07/14	2.85	--	22.4	--	8.24	--	--	--	59.3	--	--	--
DP-3(0.5-1.5)	05/07/14	42.0	4.670	72.1	173	5,220	0.097	36.2	0.62 J	1,650	–	–	5.1
DP-3(2-3)	05/07/14	2.48	--	--	--	8.62	--	--	--	61.4	--	--	--
DP-4(0-1)	05/07/14	62.7	11.6	106	201	700	0.207	29.0	0.41 J	1,300	--	--	0.198
DP-4(2-3)	05/07/14	3.16	--	--	--	11.4	--	--	--	60.6	--	--	--
DP-5(0.5-1.5)	05/07/14	13.6	4.3	119	110.0	568	0.345	28.8	0.49 J	613	--	0.064	0.855
DP-5(2-3)	05/07/14	3.06	--	24.4	--	13.0	--	--	--	--	--	--	--
DP-6(0.5-1.5)	05/07/14	57.5	1.21	60.6	200	705	0.080	36.7	0.27 J	671	--	--	0.399
DP-6(2-3)	05/07/14	1.91	--	--	--	6.5	--	--	--	--	--	--	--
DP-7(0.5-1.5)	05/07/14	19.2	2.63	35.8	155	772	0.332	23.0	0.22 J	3,240	--	--	0.062
DP-7(2-3)	05/07/14	2.2	--	--	--	8.77	--	--	--	49.5	--	--	--
DP-8(0.5-1.5)	05/07/14	5.28	0.177	25.1	27.3	12.6	0.069	20.4	0.13 J	90.0	--	–	–
DP-8(2-3)	05/07/14	--	--	--	--	--	--	--	--	--	--	--	--
DP-9(1.5-2.5)	05/07/14	7.04	0.373	24.1	55.1	40.9	0.065	13.9	0.15 J	138	--	–	–
DP-9(2.5-3.5)	05/07/14	--	--	--	--	--	--	--	--	--	--	--	--
DP-10(0.5-1.5)	05/07/14	6.78	0.149	25.8	24.5	11.9	0.020	16.3	0.10 J	73.9	--	–	–
DP-10(2-3)	05/07/14	--	--	--	--	--	--	--	--	--	--	--	--
DP-11(0.5-1.5)	05/07/14	6.77	0.389	36.5	34.7	33.0	0.031	14.3	0.16 J	120	--	--	--
DP-11(2-3)	05/07/14	--	--	--	--	--	--	--	--	–	--	–	–
DP-12(0-1)	05/07/14	4.40	0.302	25.3	32.2	34.5	0.029	14.0	0.13 J	94.1	--	--	--
DP-12(2-3)	05/07/14	--	--	--	--	--	--	--	–	–	--	–	–
DP-13(1-2)	05/07/14	8.26	0.432	18.9	34.6	77.8	0.047	10.5	0.13 J	141	--	--	--
DP-13(2-3.5)	5/7/2014	--	--	–	--	--	--	--	--	–	--	–	–
Previously Completed Sampling Results, Coles Environmental Consultants, June 6, 2011													
SS-1	06/06/11	6.88	13.2	115	86.7	7.61	0.124	100	12.4	938	--	--	--
SS-2	06/06/11	8.97	ND<1.22	21.1	69.3	151	ND<0.095	10.8	ND<2.44	178	--	–	–

TABLE 1: PHASE II SOIL SAMPLING RESULTS 2014 (page 2)

Summary of Soil and Sediment Chemical Analytical Results[1]
Total Metals and TCLP Metals
Brazil Motors Property Brownfields Project
4315 NW St. Helens Road
Portland, Oregon

Sample I.D. (depth in feet)	Sample Date	Total Metals by EPA 6000/7000 Series Methods (mg/kg)									TCLP Metals by EPA Method 6010C (mg/L)		
		Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Zinc	Arsenic	Chromium	Lead
JSCS Upland Soil/Sediment Screening Value													
MacDonald PEC and Other SQVs		33	4.98	111	149	128	1.06	48.6	5	459	NE	NE	NE
2007 DEQ Bioaccumulative Sediment SLVs		7	1	NE	NE	17	0.07	NE	2	NE	NE	NE	NE
DEQ Generic RBCs[2]													
Soil Ingestion, Dermal Contact, and Inhalation													
Residential		0.39	39	120,000	3,100	400	23	1,500	NE	NE	NE	NE	NE
Urban Residential		1	78	230,000	6,200	400	47	3,100	NE	NE	NE	NE	NE
Occupational		1.7	510	>Max	41,000	800	310	20,000	NE	NE	NE	NE	NE
Construction Worker		13	150	460,000	12,000	800	93	6,100	NE	NE	NE	NE	NE
Excavation Worker		370	4,300	>Max	340,000	800	2,600	170,000	NE	NE	NE	NE	NE
Volatilization to Outdoor Air													
Residential		NV	NV	NV	NV	NV	NV	NV	NE	NE	NE	NE	NE
Urban Residential		NV	NV	NV	NV	NV	NV	NV	NE	NE	NE	NE	NE
Occupational		NV	NV	NV	NV	NV	NV	NV	NE	NE	NE	NE	NE
Vapor Intrusion into Buildings													
Residential		NV	NV	NV	NV	NV	NV	NV	NE	NE	NE	NE	NE
Urban Residential		NV	NV	NV	NV	NV	NV	NV	NE	NE	NE	NE	NE
Occupational		NV	NV	NV	NV	NV	NV	NV	NE	NE	NE	NE	NE
Leaching to Groundwater													
Residential		*	*	*	*	30	*	*	NE	NE	NE	NE	NE
Urban Residential		*	*	*	*	30	*	*	NE	NE	NE	NE	NE
Occupational		*	*	*	*	30	*	*	NE	NE	NE	NE	NE
DEQ Clean Fill Criteria[3]		8.8	0.63	76	34.0	28	0.23	47	0.71	180	NE	NE	NE

Notes:
1. Chemical analyses performed by AIS of Kelso, Washington, under contract to BES.
2. Generic RBCs for soil as presented in DEQ's RBC tables dated September 2009, updated June 7, 2012.
3. DEQ Clean Fill Screening Criteria dated July 23, 2014 (Portland Basin)

--: not analyzed
*: Leaching to groundwater RBCs are not provided for inorganic chemicals. If this pathway is of concern, then site-specific leaching tests must be performed.
J: the result is an estimated value
ND: not detected above the laboratory MDL
NV: chemical is considered non-volatile
Bolding indicates analyte detection.
Shading indicates concentration exceeding one or more screening level values.

TABLE 2: PHASE II SOIL SAMPLING RESULTS 2014 (page 1)

Summary of Soil and Sediment Chemical Analytical Results[1]
Diesel- and Residual-Range Organics and PCBs
Brazil Motors Property Brownfield Project
4315 NW St. Helens Road
Portland, Oregon

Sample I.D. (depth in feet)	Sample Date	Diesel- and Residual-Range Organics by Method NWTPH-Dx (mg/kg)		PCBs by EPA Method 8082A (µg/kg)							
		Diesel-Range	Residual-Range	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs
SS-1(0-0.5)	05/07/14	20 J	330	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND<2.1	26	20	46
CB-SED-1	05/07/14	250	2,100	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND<2.1	72	120	192
DUP-DP-1(0-1)	05/07/14	9.0 J	74 J	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND
DP-1(0-1)	05/07/14	4.2 J	20 J	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND
DP-1(2.5-3.5)	05/07/14	--	--	--	--	--	--	--	--	--	--
DP-2(0-1)	05/07/14	99	630	ND<21	ND<21	ND<21	ND<21	ND<21	650	1,700	2,350
DP-2(2-3)	05/07/14	--	--	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND
DP-3(0.5-1.5)	05/07/14	130	770	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND<2.1	26	76	102
DP-3(2-3)	05/07/14	--	--	--	--	--	--	--	--	--	--
DP-4(0-1)	05/07/14	320	1,300	ND<21	ND<21	ND<21	ND<21	ND<21	130	910	1,040
DP-4(2-3)	05/07/14	--	--	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND
DP-5(0.5-1.5)	05/07/14	61	460	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND<2.1	79	340	419
DP-5(2-3)	05/07/14	--	--	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND<2.1	16	16
DP-6(0.5-1.5)	05/07/14	130	1,100	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND<2.1	29	89	118
DP-6(2-3)	05/07/14	--	--	--	--	--	--	--	--	--	--
DP-7(0.5-1.5)	05/07/14	68	630	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND<2.1	12	61	73
DP-7(2-3)	05/07/14	--	--	--	--	--	--	--	--	--	--
DP-8(0.5-1.5)	05/07/14	11 J	21 J	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND<2.1	3.6 J	3.6 J
DP-8(2-3)	05/07/14	--	--	--	--	--	--	--	--	--	--
DP-9(1.5-2.5)	05/07/14	19 J	120 J	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND<2.1	8.3	17	25.3
DP-9(2.5-3.5)	05/07/14	--	--	--	--	--	--	--	--	--	--
DP-10(0.5-1.5)	05/07/14	7.3 J	56 J	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND
DP-10(2-3)	05/07/14	--	--	--	--	--	--	--	--	--	--
DP-11(0.5-1.5)	05/07/14	84	520	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND<2.1	9.7	20	29.7
DP-11(2-3)	05/07/14	--	--	--	--	--	--	--	--	--	--
DP-12(0-1)	05/07/14	73	210	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND<2.1	15	26.0	41
DP-12(2-3)	05/07/14	--	--	--	--	--	--	--	--	--	--
DP-13(1-2)	05/07/14	72	320	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND<2.1	31	69	100
DP-13(2-3.5)	5/7/2014	--	--	--	--	--	--	--	--	--	

TABLE 2: PHASE II SOIL SAMPLING RESULTS 2014 (page 2)

Summary of Soil and Sediment Chemical Analytical Results[1]
Diesel- and Residual-Range Organics and PCBs
Brazil Motors Property Brownfield Project
4315 NW St. Helens Road
Portland, Oregon

Sample I.D. (depth in feet)	Sample Date	Diesel- and Residual-Range Organics by Method NWTPH-Dx (mg/kg)		PCBs by EPA Method 8082A (ug/kg)							
		Diesel-Range	Residual-Range	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs
Previously Completed Sampling Results, Coles Environmental Consultants, June 6, 2011											
SS-1	06/06/11	--	--	ND<166	ND<166	ND<166	ND<166	ND<166	ND<166	6,680	6,680
SS-2	06/06/11	--	--	ND<65.8	ND<65.8	ND<65.8	ND<65.8	ND<65.8	ND<65.8	255	255
JSCS Upland Soil/Sediment Screening Value											
MacDonald PEC and Other SQVs		NE	NE	530	NE	NE	NE	1,500	300	200	NE
2007 DEQ Bioaccumulative Sediment SLVs		NE	NE	NE	NE	NE	NE	NE	NE	NE	0.39
DEQ Generic RBCs[2]											
Soil Ingestion, Dermal Contact, and Inhalation											
Residential		1,100	NE	NE	NE	NE	NE	NE	NE	NE	200
Urban Residential		2,500	NE	NE	NE	NE	NE	NE	NE	NE	310
Occupational		20,000	NE	NE	NE	NE	NE	NE	NE	NE	560
Construction Worker		9,700	NE	NE	NE	NE	NE	NE	NE	NE	4,400
Excavation Worker		>Max	NE	NE	NE	NE	NE	NE	NE	NE	120,000
Volatilization to Outdoor Air											
Residential		5,900	NE	NE	NE	NE	NE	NE	NE	NE	>Csat
Urban Residential		5,900	NE	NE	NE	NE	NE	NE	NE	NE	>Csat
Occupational		69,000	NE	NE	NE	NE	NE	NE	NE	NE	>Csat
Vapor Intrusion into Buildings											
Residential		94	NE	NE	NE	NE	NE	NE	NE	NE	>Csat
Urban Residential		94	NE	NE	NE	NE	NE	NE	NE	NE	>Csat
Occupational		>Max	NE	NE	NE	NE	NE	NE	NE	NE	>Csat
Leaching to Groundwater											
Residential		31	NE	NE	NE	NE	NE	NE	NE	NE	110
Urban Residential		31	NE	NE	NE	NE	NE	NE	NE	NE	550
Occupational		130	NE	NE	NE	NE	NE	NE	NE	NE	620
DEQ Clean Fill Criteria[3]		1,100	NE	NE	NE	NE	NE	NE	NE	NE	200

Notes:
1. Chemical analyses performed by ALS of Kelso, Washington, under contract to GES.
2. Generic RBCs for soil as presented in DEQ's RBC tables dated September 2009, updated June 7, 2012.
3. DEQ Clean Fill Screening Criteria dated July 23, 2014 (Portland Basin)

-- : not analyzed

>Max: The constituent RBC for this pathway is greater than 100,000 mg/kg. DEQ believes it is highly unlikely that such concentrations will ever be encountered.

ND: not detected above the laboratory MDL

Bolding indicates analyte detection.

Shading indicates concentration exceeding one or more screening level values

>Csat: This soil RBC exceeds the limit of three-phase equilibrium partitioning. Refer to Appendix D of DEQ's RBDM guidance document for the corresponding value of Csat. Soil concentrations in excess of Csat indicate that free product might be present. See Section 8.2.1.4 of DEQ's RBDM guidance document for additional information.

J: the result is an estimated value

TABLE 3: PHASE II SOIL SAMPLING RESULTS 2014 (page 1)

Summary of Soil and Sediment Chemical Analytical Results
SVOCs
Brazil Motors Property Brownfield Project
4315 NW St. Helens Road
Portland, Oregon

Sample ID (depth in feet)	Sample Date	SVOCs by EPA Method 8270D (µg/kg)																							
		Naphthalene	2-Methylnaphthalene	Acenaphthylene	Dimethyl Phthalate	Acenaphthene	Dibenzofuran	Fluorene	Diethyl Phthalate	Phenanthrene	Anthracene	D-n-butyl Phthalate	Fluoranthene	Pyrene	Butyl Benzyl Phthalate	Benz(a)anthracene	Chrysene	Bis(2-ethylhexyl) Phthalate	Di-n-octyl Phthalate	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenz(a,h)anthracene	Benzo(g,h,i)perylene
SS-1(0-0.5)	05/07/14	ND<37	ND<37	NND<37	ND<37	ND<37	ND<37	ND<37	ND<37	35 J	ND<37	62 J	74	78	ND<37	41	53	170 J	ND<37	89	23 J	74	63	ND<37	69
CB-SED-1	05/07/14	ND<87	ND<87	ND<87	ND<87	ND<87	ND<87	ND<87	ND<87	78 J	ND<87	300	180	180	70 J	100	150	500 J	ND<87	210	48 J	140	140	ND<87	160
DUP-DP-1(0-1)	05/07/14	ND<6.3	ND<6.3	ND<6.3	ND<6.3	ND<6.3	ND<6.3	ND<6.3	ND<6.3	ND<6.3	ND<6.3	5.1 J	ND<6.3	ND<6.3	ND<6.3	ND<6.3	ND<6.3	ND<6.3	ND<6.3	ND<6.3	ND<6.3	ND<6.3	ND<6.3	ND<6.3	ND<6.3
DP-1(0-1)	05/07/14	ND<6.3	ND<6.3	ND<6.3	ND<6.3	ND<6.3	ND<6.3	ND<6.3	ND<6.3	ND<6.3	ND<6.3	5.4 J	ND<6.3	ND<6.3	ND<6.3	ND<6.3	ND<6.3	ND<6.3	ND<6.3	ND<6.3	ND<6.3	ND<6.3	ND<6.3	ND<6.3	ND<6.3
DP-1(2.5-3.5)	05/07/14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DP-2(0-1)	05/07/14	ND<56	ND<56	42 J	ND<56	ND<56	ND<56	ND<56	ND<56	85	34 J	890	190	200	ND<56	130	160	330 J	ND<56	210	76	180	160	ND<56	150
DP-2(2-3)	05/07/14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DP-3(0.5-1.5)	05/07/14	ND<58	ND<58	ND<58	ND<58	ND<58	ND<58	ND<58	ND<58	ND<58	ND<58	230	ND<58	ND<58	ND<58	ND<58	ND<58	ND<58	ND<58	39 J	ND<58	ND<58	34 J	ND<58	43 J
DP-3(2-3)	05/07/14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DP-4(0-1)	05/07/14	ND<63	ND<63	30 J	ND<63	ND<63	ND<63	ND<63	ND<63	56 J	ND<63	800	120	130	ND<63	67	92	260 J	ND<63	160	43 J	120	140	ND<63	150
DP-4(2-3)	05/07/14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DP-5(0.5-1.5)	05/07/14	ND<55	ND<55	ND<55	ND<55	ND<55	ND<55	ND<55	ND<55	75	ND<55	230	140	150	ND<55	79	100	96 J	ND<55	140	40 J	120	120	ND<55	130
DP-5(2-3)	05/07/14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DP-6(0.5-1.5)	05/07/14	46 J	ND<59	ND<59	ND<59	70	ND<59	50 J	ND<59	400	97	240	470	420	ND<59	170	210	ND<590	ND<59	230	74	230	180	ND<59	180
DP-6(2-3)	05/07/14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DP-7(0.5-1.5)	05/07/14	ND<57	ND<57	ND<57	ND<57	ND<57	ND<57	ND<57	ND<57	41 J	ND<57	450	74	63	ND<57	ND<57	47 J	710	ND<57	75	ND<57	45 J	47 J	ND<57	55 J
DP-7(2-3)	05/07/14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DP-8(0.5-1.5)	05/07/14	ND<6.0	ND<6.0	ND<6.0	ND<6.0	ND<6.0	ND<6.0	ND<60	ND<6.0	ND<6.0	ND<6.0	10 J	6.4	6.4	6.3	ND<6.0	4.8 J	33 J	ND<6.0	6.0	ND<6.0	5.7 J	6.6	ND<6.0	6.5
DP-8(2-3)	05/07/14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DP-9(1.5-2.5)	05/07/14	ND<6.0	ND<6.0	ND<6.0	ND<6.0	ND<6.0	ND<6.0	ND<6.0	ND<6.0	23	3.5 J	19	43	35	12	17	24	170	ND<6.0	31	9.3	24	20	3.6 J	20
DP-9(2.5-3.5)	05/07/14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DP-10(0.5-1.5)	05/07/14	ND<6.3	ND<6.3	ND<6.3	ND<6.3	ND<6.3	ND<6.3	ND<6.3	ND<6.3	ND<6.3	ND<6.3	7.1 J	ND<6.3	ND<6.3	5.7 J	ND<6.3	ND<6.3	34 J	ND<6.3	ND<6.3	ND<6.3	ND<6.3	ND<6.3	ND<6.3	ND<6.3
DP-10(2-3)	05/07/14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DP-11(0.5-1.5)	05/07/14	ND<59	ND<59	ND<59	ND<59	ND<59	ND<59	ND<59	ND<59	ND<59	ND<59	ND<120	45 J	60	180	38 J	48 J	2,000	ND<59	91	ND<59	91	92	ND<59	95
DP-11(2-3)	05/07/14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DP-12(0-1)	05/07/14	ND<12	ND<12	ND<12	ND<12	ND<12	ND<12	ND<12	ND<12	ND<12	ND<12	9.8 J	ND<12	ND<12	12	ND<12	ND<12	160	ND<12	10 J	ND<12	9.1 J	9.8 J	ND<12	11 J
DP-12(2-3)	05/07/14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DP-13(1-2)	05/07/14	ND<59	ND<59	ND<59	ND<59	ND<59	ND<59	ND<59	ND<59	71	ND<59	ND<120	70	83	64	45 J	56 J	1,300	ND<59	77	ND<59	67	73	ND<59	73
DP-13(2-3.5)	5/7/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
JSCS Upland Soil/Sediment Screening Value																									
MacDonald PEC and Other SQVs		561	200	200	NE	300	NE	536	600	1,170	845	100	2,230	1,520	NE	1,050	1,290	800	NE	NE	13,000	1,450	100	1,300	300
2007 DEQ Bioaccumulative Sediment SLVs		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	60	37,000	1,900	NE	NE	NE	330	NE	NE	NE	NE	NE	NE	NE

TABLE 3: PHASE II SOIL SAMPLING RESULTS 2014 (page 2)

Summary of Soil and Sediment Chemical Analytical Results[1]
SVOCs
Brazil Motors Property Brownfield Project
4315 NW St. Helens Road
Portland, Oregon

Sample I.D. (depth in feet)	Sample Date	SVOCs by EPA Method 8270D (µg/kg)																						
		Naphthalene	2-Methylnaphthalene	Acenaphthylene	Dimethyl Phthalate	Acenaphthene	Dibenzofuran	Fluorene	Diethyl Phthalate	Phenanthrene	Anthracene	D-n-butyl-Phthalate	Fluoranthene	Pyrene	Butyl Benzyl Phthalate	Benz(a)anthracene	Chrysene	Bis(2-ethylhexyl) Phthalate	Di-n-octyl Phthalate	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenz(a,h)anthracene	Benzo(g,h,i)perylene
DEQ Generic RBCs[2]																									
Soil Ingestion, Dermal Contact, and Inhalation																									
Residential		4,600	NE	NE	NE	4.70E+06	NE	3.10E+06	NE	NE	2.30E+07	NE	2.30E+06	1.70E+06	NE	150	14,000	35,000	NE	150	1,500	15	150	15	NE
Urban Residential		25,000	NE	NE	NE	9.40E+06	NE	6.30E+06	NE	NE	4.70E+07	NE	4.60E+06	3.40E+06	NE	340	32,000	93,000	NE	340	3,400	34	340	34	NE
Occupational		23,000	NE	NE	NE	6.10E+07	NE	4.10E+07	NE	NE	3.10E+08	NE	2.90E+07	2.10E+07	NE	2,700	250,000	150,000	NE	2,700	27,000	270	2,700	270	NE
Construction Worker		580,000	NE	NE	NE	1.90E+07	NE	1.20E+07	NE	NE	9.30E+07	NE	8.90E+06	6.70E+06	NE	21,000	2.10E+06	1.20E+06	NE	21,000	210,000	2,100	21,000	2,100	NE
Excavation Worker		1,600,000	NE	NE	NE	5.20E+08	NE	3.40E+08	NE	NE	>Max	NE	2.50E+08	1.90E+08	NE	590,000	5.70E+07	3.30E+07	NE	590,000	5.90E+06	59,000	590,000	59,000	NE
Volatilization to Outdoor Air																									
Residential		6,500	NE	NE	NE	>Max	NE	>Max	NE	NE	>Max	NE	>Max		NE	NV	>Csat	NV	NE	>Csat	NV	NV	NV	NV	NE
Urban Residential		18,000	NE	NE	NE	>Max	NE	>Max	NE	NE	>Max	NE	>Max	-	NE	NV	>Csat	NV	NE	>Csat	NV	NV	NV	NV	NE
Occupational		99,000	NE	NE	NE	>Max	NE	>Max	NE	NE	>Max	NE	>Max	-	NE	NV	>Csat	NV	NE	>Csat	NV	NV	NV	NV	NE
Vapor Intrusion into Buildings																									
Residential		6,500	NE	NE	NE	>Max	NE	>Max	NE	NE	>Max	NE	>Max	-	NE	NV	>Csat	NV	NE	>Csat	NV	NV	NV	NV	NE
Urban Residential		18,000	NE	NE	NE	>Max	NE	>Max	NE	NE	>Max	NE	>Max	-	NE	NV	>Csat	NV	NE	>Csat	NV	NV	NV	NV	NE
Occupational		99,000	NE	NE	NE	>Max	NE	>Max	NE	NE	>Max	NE	>Max	-	NE	NV	>Csat	NV	NE	>Csat	NV	NV	NV	NV	NE
Leaching to Groundwater																									
Residential		87	NE	NE	NE	>Csat	NE	>Csat	NE	NE	>Csat	NE	>Csat	>Csat	NE	3,500	>Csat	140,000	NE	4,000	>Csat	900	>Csat	3,400	NE
Urban Residential		470	NE	NE	NE	>Csat	NE	>Csat	NE	NE	>Csat	NE	>Csat	>Csat	NE	10,000	>Csat	>Csat	NE	>Csat	>Csat	2,700	>Csat	>Csat	NE
Occupational		440	NE	NE	NE	>Csat	NE	>Csat	NE	NE	>Csat	NE	>Csat	>Csat	NE	>Csat	>Csat	>Csat	NE	>Csat	>Csat	>Csat	>Csat	>Csat	NE
DEQ Clean Fill Criteria[3]		87	310,000	NE	NE	29,000	2	29,000	100,000	NE	29,000	NE	29,000	1.70E+06	260,000	150	14,000	4,500	NE	150	1,100	15	150	15	NE

Notes:
1. Chemical analyses performed by ALS of Kelso, Washington, under contract to BES.
2. Generic RBCs for soil as presented in DEQ's RBC tables dated September 2009; updated June 7, 2012.
3. DEQ Clean Fill Screening Criteria dated December 20, 2013 (Portland Basin)
--: not analyzed
>Csat: This soil RBC exceeds the limit of three-phase equilibrium partitioning. Refer to Appendix D of DEQ's RBDM guidance document for the corresponding value of Csat. Soil concentrations in excess of Csat indicate that free product might be present. See Section 8.2.1.4 of DEQ's RBDM guidance document for additional information.
J: the result is an estimated value
>Max: The constituent RBC for this pathway is greater than 100,000 mg/kg. DEQ believes it is highly unlikely that such concentrations will ever be encountered.
ND: not detected above the laboratory MDL
NV: chemical is considered non-volatile
Bolding indicates analyte detection.
Shading indicates concentration exceeding one or more screening level value.

TABLE 4: POST-EXCAVATION SAMPLING RESULTS

Units **Metals/Inorganics**	**SLV for Portland Harbor**	DP-1-615 µg/kg	DP-2-615 µg/kg	DP-3-615 µg/kg	DP-4-615 µg/kg	DP-5-615 µg/kg	DP-6-615 µg/kg	DP-7-615 µg/kg	DEQ Soil Occupational RBC
Aluminum (pH 6.5 - 9.0)	--								
Antimony	64000								
Arsenic	7000	5480	4790	2690	1080	4170	15600	2480	1900
Arsenic III	--								
Cadmium	1000	2630	574	956	1630	1020	1540	1120	1100000
Chromium, total	111000	31000	23500	27400	27600	28200	22300	21900	6300 (IV)
Chromium, hexavalent	--								
Copper	149000								
Lead	17000	221000	18000	123000	69300	158000	127000	240000	800000
Manganese	1100000								
Mercury	70	160	ND	ND	ND	ND	ND	ND	310000
PCBs Aroclors (total)	(0.39)	(30.3)	(62.9)	(812)	(148.1)	(49.3)	(1484)	(ND)	(590)
Aroclor 1016	530	ND	ND	ND	ND	ND	ND	ND	
Aroclor 1221	--	ND	ND	ND	ND	ND	ND	ND	
Aroclor 1232	--	ND	ND	ND	ND	ND	ND	ND	
Aroclor 1242	--	ND	ND	ND	ND	ND	ND	ND	
Aroclor 1248	1500	ND	ND	ND	ND	ND	ND	ND	
Aroclor 1254	200	14.2	29.8	ND	45.1	ND	732	ND	
Aroclor 1260	300	16.1	33.1	812	103	49.3	752	ND	
Polycyclic Aromatic Hydrocarbons (total)	(--)	(292.1)	(28.6)	(165.3)	(ND)	(4550)	(1553.9)	(ND)	
Naphthalene	561	14.6	28.6	26.4	ND	168	100	ND	23000
2-Methylnaphthalene	200	ND	ND	ND	ND	31.3	29.8	ND	--
Acenaphthylene	200	ND	ND	ND	ND	77	19.2	ND	--
Acenaphthene	300	ND	ND	ND	ND	ND	ND	ND	70000000
Fluorene	536	ND	ND	ND	ND	ND	ND	ND	47000000
Phenanthrene	1170	15.7	ND	14.1	ND	113	102	ND	--
Anthracene	845	ND	ND	ND	ND	45.5	15.8	ND	350000000
Fluoranthene	2230	38.2	ND	22.8	ND	584	196	ND	30000000
Pyrene	1520	47	ND	23.2	ND	709	243	ND	23000000
Benz(a)anthracene	1050	19.5	ND	15.2	ND	382	82.5	ND	2900
Chrysene	1290	30.3	ND	ND	ND	436	124	ND	290000
Benzo(b)fluoranthene	--	40	ND	18.7	ND	513	146	ND	2900
Benzo(k)fluoranthene	13000	12.8	ND	ND	ND	182	38.6	ND	29000
Benzo(a)pyrene	1450	31.3	ND	15.6	ND	469	136	ND	290
Indeno(1,2,3-cd)pyrene	100	39.2	ND	13.7	ND	366	131	ND	2900
Dibenz(a,h)anthracene	1300	ND	ND	ND	ND	54.2	13	ND	290
Benzo(g,h,i)perylene	300	50.5	ND	15.6	ND	420	177	ND	--
Other Analytes									
TPH Diesel	--	ND	ND	ND	ND	ND	ND	ND	14000000
TPH Heavy Oil	--	ND	ND	167	ND	105	144	ND	