

TABLE D-1

## PETROLEUM HYDROCARBONS IN SOIL

Remedial Investigation/Feasibility Study  
Astoria Area-Wide Petroleum Site  
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Diesel Range Organics	Gasoline Range Organics	Lubeoil	Residual Range Organics
			feet	mg/kg	mg/kg	mg/kg	mg/kg
EX-1(S)	Ex-1/S-1	3/30/2004	-	26.5	1.26 J		34 J
EX-2(S)	Ex-2/S-1	3/30/2004	-	16.1 J	3.18 J		110
EX-2(S)	Ex-2/S-2	4/1/2004	-	25 U	2.09 J		35.6 J
EX-3(S)	Ex-3/S-1	3/31/2004	-	770	1.08 J		760
EX-4(S)	Ex-4/S-1	3/29/2004	-	Not Present	Not Present		Not Present
HOT-N-6	HOT-N-6	11/9/2004	-	41000			50 U
HOT-S-6	HOT-S-6	11/9/2004	-	27000			50 U
SB-001(A)	SB-001(A)-7.5	8/27/2003	7.5	25 U	4.64		50 U
SB-002(A)	SB-002(A)-2.5	8/27/2003	2.5	25 U	8.4		50 U
SB-002(A)	SB-002(A)-7.5	8/27/2003	7.5	25 U	3.18 J		50 U
SB-005(A)	SB-005(A)-2.5	9/5/2003	2.5	25 U	4 U		50 U
SB-005(A)	SB-005(A)-7	9/5/2003	7	25 U	4 U		50 U
SB-006(A)	SB-006(A)-7'	3/31/2004	7	14000	2190		2000 U
SB-007(A)	SB-007(A)-7.5	8/26/2003	7.5	6840	2520		1000 U
SB-008(A)	SB-008(A)-2	8/26/2003	2	16.6 J	4.93		59
SB-008(A)	SB-008(A)-7.5	8/26/2003	7.5	25 U	4 U		50 U
SB-009(A)	SB-009(A)-2	8/27/2003	2	25 U	7.84		50 U
SB-009(A)	SB-009(A)-7.5	8/27/2003	7.5	12200	1670		2000 U
SB-010(A)	SB-010(A)-2	8/27/2003	2	25 U	6.39		50 U
SB-010(A)	SB-010(A)-7.5	8/27/2003	7.5	25 U	2.76 J		50 U
SB-011(A)	SB-011(A)-7.5	9/3/2003	7.5	25 U	4 U		50 U
SB-013(A)	SB-013(A)-7.5	9/3/2003	7.5	25 U	4 U		50 U
SB-015(A)	SB-015(A)-7	9/10/2003	7	25 U	695		50 U
SB-017(A)	SB-017(A)-7.5	9/8/2003	7.5	25 U	4 U		50 U
SB-019(A)	SB-019(A)-2.5	8/27/2003	2.5	25 U	7.46		50 U
SB-019(A)	SB-019(A)-7.5	8/27/2003	7.5	2370	5960		67.8
SB-020(A)	SB-020(A)-4'	3/31/2004	4	25 U	4 U B		50 U
SB-020(A)	SB-020(A)-9'	3/31/2004	9	25 U	4 U B		50 U
SB-021(A)	SB-021 (A)-11.5	9/14/2005	11.5	51400	1550		6370 U
SB-022(A)	SB-022 (A)-10.5	9/14/2005	10.5	2730	108		720
SB-023(A)	SB-023 (A)-11.5	9/15/2005	11.5	31.2 U	4.94 U		62.3 U
SB-024(A)	SB-024 (A)-11.5	9/14/2005	11.5	30.1 U	4.69 U		60.2 U
SB-025(A)	SB-025 (A)-11.5	9/15/2005	11.5	31 U	4.95 U		62 U
SB-026(A)	SB-026 (A)-13.5	9/14/2005	13.5	511	4.8 U		62.3 U
SB-027(A)	SB-027 (A)-11	9/14/2005	11	31900	2450		5690 U
SB-028(A)	SB-028 (A)-10	9/14/2005	10	25.3	4.41 U		64.5
SB-029(A)	SB-029 (A)-12.5	9/14/2005	12.5	31.5 U J	5.03 U J		63 U J
SB-030(A)	SB-030 (A)-12.5	9/14/2005	12.5	32.5 U	5.11 U		65.1 U

TABLE D-1

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Astoria Area-Wide Petroleum Site  
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Diesel Range Organics	Gasoline Range Organics	Lubeoil	Residual Range Organics
			feet	mg/kg	mg/kg	mg/kg	mg/kg
SB-100(C)	SB100(C)20	8/22/2002	20	25 U	6.31		50 U
SB-100(C)	SB100(C)3	8/22/2002	3	25 U	4 U		50 U
SB-101(C)	SB101(C)18	8/22/2002	18	25 U	4 U		50 U
SB-101(C)	SB101(C)3	8/22/2002	3	25 U	4 U		50 U
SB-102(C)	SB102(C)1-3	8/22/2002	2	25 U	8.31		50 U
SB-102(C)	SB102(C)18	8/22/2002	18	73.9	4 U		473
SB-103(C)	SB103(C)18	8/22/2002	18	44.5	4 U		126
SB-103(C)	SB103(C)3	8/22/2002	3	76.4	4 U		283
SB-104(C)	SB104(C)20	8/22/2002	20	25 U	5.14		74.1
SB-104(C)	SB104(C)4	8/22/2002	4	25 U	4 U		50 U
SB-200(C)	SB200(C)3	8/22/2002	3	25 U	4 U		50 U
SB-200(C)	SB200(C)6	8/22/2002	6	25 U	4 U		50 U
SB-201(C)	SB201(C)3	8/22/2002	3	25 U	4 U		50 U
SB-201(C)	SB201(C)6	8/22/2002	6	37.5	4 U		159
SB-202(C)	SB202(C)2	8/22/2002	2	6030	5.03		7700
SB-202(C)	SB202(C)3	8/22/2002	3	38.8	4 U		57.8
SB-202(C)	SB202(C)7	8/22/2002	7	28.7	4 U		50 U
SB-203(C)	SB203(C)3	8/22/2002	3	25 U	4 U		50 U
SB-203(C)	SB203(C)7	8/22/2002	7	25 U	4 U		50 U
SB-204(C)	SB204(C)3	8/22/2002	3	25 U	4 U		50 U
SB-204(C)	SB204(C)8	8/22/2002	8	25 U	5.51		50 U
SB-253(C)	SB-253(C)-2	9/4/2003	2	25 U	4 U		50 U
SB-253(C)	SB-253(C)-7.5	9/4/2003	7.5	25 U	4 U		50 U
SB-254(C)	SB-254(C)-2	9/4/2003	2	250 U	4 U		1010
SB-254(C)	SB-254(C)-7	9/4/2003	7	25 U	4 U		50 U
SB-255(C)	SB-255(C)-2.5	9/4/2003	2.5	77.5	4 U		325
SB-255(C)	SB-255(C)-7	9/4/2003	7	196	10		301
SB-256(C)	SB256 (c) 6	3/31/2004	6	25 U	6.23 J		50 U
SB-300(D)	SB-300-D-2.0	8/20/2002	2	Present	Not Present		Present
SB-300(D)	SB-D-DUP-2	8/20/2002	2	Present	Not Present		Present
SB-301(D)	SB-301-D-3.5	8/20/2002	3.5	Present	Present		Not Present
SB-304(D)	SB-304-D-2.0	8/19/2002	2	Present	Not Present		Present
SB-304(D)	SB-304-D-5.0	8/19/2002	5	Present	Present		Present
SB-304(D)	SB-D-DUP-0819	8/19/2002	2	Present	Present		Present
SB-305(D)	SB-305-D-2.0	8/19/2002	2	Present	Present		Present
SB-305(D)	SB-305-D-4.5	8/19/2002	4.5	Present	Not Present		Not Present
SB-306(D)	SB-306-D-2.0	8/19/2002	2	Present	Present		Present
SB-306(D)	SB-306-D-4.5	8/19/2002	4.5	Present	Present		Present

TABLE D-1

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Astoria, Oregon

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			feet	mg/kg	mg/kg	mg/kg	mg/kg
SB-307(D)	SB-307-D-2.0	8/19/2002	2	Not Present	Not Present		Not Present
SB-308(D)	SB-308-D-5.0	8/19/2002	5	Present	Present		Present
SB-309(D)	SB-309-D-5.0	8/19/2002	5	Not Present	Not Present		Present
SB-310(D)	SB-310-D-2.0	8/19/2002	2	Present	Present		Present
SB-310(D)	SB-310-D-5.0	8/19/2002	5	Present	Present		Present
SB-311(D)	SB-311-D-5.0	8/19/2002	5	Not Present	Not Present		Not Present
SB-312(D)	SB-312-D-5.0	8/19/2002	5	Not Present	Not Present		Not Present
SB-313(D)	SB-313-D-18.0	8/20/2002	18	Not Present	Present		Not Present
SB-313(D)	SB-313-D-5.0	8/20/2002	5	Not Present	Present		Not Present
SB-314(D)	SB-314-D-10.0	8/20/2002	10	Present	Not Present		Not Present
SB-314(D)	SB-314-D-15.0	8/20/2002	15	Not Present	Not Present		Not Present
SB-315(D)	SB-315-D-15.0	8/20/2002	15	Not Present	Not Present		Not Present
SB-315(D)	SB-315-D-2.0	8/20/2002	2	Not Present	Not Present		Not Present
SB-316(D)	SB-316-D-10.0	8/20/2002	10	Not Present	Present		Not Present
SB-316(D)	SB-316-D-5.0	8/20/2002	5	Not Present	Present		Not Present
SB-316(D)	SB-D-DUP-3	8/20/2002	5	Not Present	Present		Not Present
SB-317(D)	SB-317-D-10.0	8/20/2002	10	Not Present	Not Present		Not Present
SB-318(D)	SB-318-D-15.0	8/20/2002	15	Not Present	Present		Not Present
SB-320(D)	SB-320(D)-2	9/10/2003	2	25 U	4 U		50 U
SB-320(D)	SB-320(D)-5	9/10/2003	5	25 U	4 U		50 U
SB-321(D)	SB-321(D)-2	9/9/2003	2	1780	392		3560
SB-321(D)	SB-321(D)-5	9/9/2003	5	6370	1530		19200
SB-322(D)	SB-322(D)-2	9/10/2003	2	25 U	4.31		27.8 J
SB-322(D)	SB-322(D)-5	9/10/2003	5	25 U	4.61		50 U
SB-323(D)	SB-323(D)-7	9/10/2003	7	25 U	2.61 J		50 U
SB-324(D)	SB-324(D)-10	9/10/2003	10	4630	586		50 U
SB-324(D)	SB-324(D)-15	9/10/2003	15	433	162		250 U
SB-324(D)	SB-324(D)-2	9/10/2003	2	25 U	2.75 J		50 U
SB-324(D)	SB-324(D)-5	9/10/2003	5	25 U	2.63 J		50 U
SB-324(D)	SB-324(D)-DUP	9/10/2003	15	592	366		1500
SB-325(D)	SB-325(D)-10	9/10/2003	10	25 U	4 U		50 U
SB-325(D)	SB-325(D)-15	9/10/2003	15	25 U	6.05		50 U
SB-325(D)	SB-325(D)-2	9/10/2003	2	25 U	5.53		50 U
SB-325(D)	SB-325(D)-5	9/10/2003	5	25 U	4 U		50 U
SB-325(D)	SB-325(D)-DUP	9/10/2003	2	25 U	3.17 J		50 U
SB-326(D)	SB-326(D)-10	9/9/2003	10	202	1920		50 U
SB-326(D)	SB-326(D)-2	9/9/2003	2	25 U	31.6		50 U
SB-326(D)	SB-326(D)-5	9/9/2003	5	25 U	870		47.2 J
SB-327(D)	SB-327(D)-10	9/10/2003	10	9640	758		1000 U
SB-327(D)	SB-327(D)-15	9/10/2003	15	22 J	390		50 U

TABLE D-1

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Astoria Area-Wide Petroleum Site  
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Diesel Range Organics	Gasoline Range Organics	Lubeoil	Residual Range Organics
			feet	mg/kg	mg/kg	mg/kg	mg/kg
SB-327(D)	SB-327(D)-2	9/10/2003	2	25 U	2.78 J		50 U
SB-327(D)	SB-327(D)-5	9/10/2003	5	25 U	6.22		50 U
SB-328(D)	SB-328(D)-10	9/10/2003	10	3580	1360		50 U
SB-328(D)	SB-328(D)-15	9/10/2003	15	22.8 J	11.4		50 U
SB-328(D)	SB-328(D)-2	9/10/2003	2	25 U	4 U		48.1 J
SB-328(D)	SB-328(D)-5	9/10/2003	5	21.3 J	67.9		104
SB-400(F)	SB-400(F)-2.5	8/22/2002	2.5	25 U	2.5 U		50 U
SB-400(F)	SB-400(F)-5	8/22/2002	5	25 U	2.5 U J		50 U
SB-401(F)	SB-401(F)-2.5	8/23/2002	2.5	25 U	2.5 U J		50 U
SB-401(F)	SB-401(F)-20	8/23/2002	20	25 U	2.5 U		71.7
SB-402(F)	SB-402(F)-2.5	8/23/2002	2.5	25 U	2.5 U		50 U
SB-402(F)	SB-402(F)-20	8/23/2002	20	25 U	2.5 U J		71.7
SB-404(F)	SB-404(F)-2.5	8/22/2002	2.5	25 U	2.5 U		50 U
SB-404(F)	SB-404(F)-20	8/22/2002	20	25 U	7.81		50 U
SB-405(F)	SB-405(F)-2.5	8/22/2002	2.5	25 U	2.5 U		50 U
SB-405(F)	SB-405(F)-7.5	8/22/2002	7.5	25 U	93.9 J		50 U
SB-406(F)	SB-406(F)-2.5	8/22/2002	2.5	25 U	2.5 U		77.1
SB-406(F)	SB-406(F)-8	8/22/2002	8	25 U	5.03 J		50 U
SB-407(F)	SB-407(F)-2.5	8/22/2002	2.5	25 U	2.5 U		56.3
SB-407(F)	SB-407(F)-7.5	8/22/2002	7.5	413 J	1570 J		50 U J
SB-407(F)	SB407/S-2(6-8)	8/22/2002	7	Present	1470		Not Present
SB-407(F)	SB407/S-2(6-8)	8/22/2002	7		Present		
SB-408(F)	SB-408(F)-2.5	8/22/2002	2.5	1470	6.44		229
SB-408(F)	SB-408(F)-7.5	8/22/2002	7.5	150	3.66 J		53.4
SB-408(F)	SB408/S-2(6-7)	8/22/2002	6.5		34.8		
SB-409(F)	SB-409(F)-2.5	8/22/2002	2.5	25 U	2.5 U		50 U
SB-409(F)	SB-409(F)-5	8/22/2002	5	25 U	2.5 U		50 U
SB-410(F)	SB-410(F)-2'	3/31/2004	2	48.2	4.45 J,B		179
SB-410(F)	SB-410(F)-4'	3/31/2004	4	25 U	4 U B		50 U
SB-410(F)	SB-410(F)-9'	3/31/2004	9	25 U	4 U B		50 U
SB-500(M)	SB-500 (M) 8-12	8/29/2002	10	25 U	2.5 U		50 U
SB-501(M)	SB-501 (M) 4-8	8/29/2002	6	282	20.6		50 U
SB-501(M)	SB-501 (M) 8-12	8/29/2002	10	1680	1300		50 U
SB-502(M)	SB-502 (M) 8-12	8/29/2002	10	10800	217		1000 U
SB-503(M)	SB-503 (M) 8-12	8/29/2002	10	16800	490		500 U
SB-504(M)	SB-504 (M) 10-12	8/29/2002	11	25 U	3.17 J		50 U
SB-505(M)	SB-505 (M) 8-12	8/29/2002	10	4750	186		500 U
SB-506(M)	SB-506 (M) 8-12	8/29/2002	10	2520	890		50 U

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			feet	mg/kg	mg/kg	mg/kg	mg/kg
SB-507(M)	SB-507 (M) 8-12	8/29/2002	10	16100	532		500 U
SB-508(M)	SB-508 (M) 8-12	8/29/2002	10	3270	1380		50 U
SB-509(M)	SB-509 (M) 8-12	8/29/2002	10	41.4	6.51 J		75.6
SB-510(M)	SB-510 (M) 8-12	8/29/2002	10	35500 J	2040		500 U J
SB-600(N)	SB-600(N)-11	9/13/2002	11	Not Present	Not Present		Not Present
SB-600(N)	SB-600(N)-7	9/13/2002	7	Not Present	2510		Not Present
SB-600(N)	SB-600(N)-7	9/13/2002	7		Present		
SB-601(N)	SB-601(N)-7	9/13/2002	7	1380	3750		50 U
SB-601(N)	SB-601(N)-7	9/13/2002	7	Present	Present		Not Present
SB-602(N)	SB-602(N)-3	9/13/2002	3		2.56		
SB-602(N)	SB-602(N)-7	9/13/2002	7	528	337		50 U
SB-602(N)	SB-602(N)-7	9/13/2002	7	Present	Present		Not Present
SB-603(N)	SB-603(N)-7	9/13/2002	7	1520	3750		1000 U
SB-603(N)	SB-603(N)-7	9/13/2002	7	Present	Present		Not Present
SB-604(N)	SB-604(N)-3	9/13/2002	3	Not Present	2.5 U		Not Present
SB-604(N)	SB-604(N)-3	9/13/2002	3		Not Present		
SB-604(N)	SB-604(N)-7	9/13/2002	7	2780	601		1000 U
SB-604(N)	SB-604(N)-7	9/13/2002	7	Present	Present		Not Present
SB-605(N)	SB-605(N)-3	9/13/2002	3	Not Present	Not Present		Not Present
SB-605(N)	SB-605(N)-7	9/13/2002	7	2260	3000		1000 U
SB-605(N)	SB-605(N)-7	9/13/2002	7	Present	Present		Not Present
SB-606(N)	SB-606(N)-3	9/13/2002	3	Not Present	2.5 U		Not Present
SB-606(N)	SB-606(N)-3	9/13/2002	3		Not Present		
SB-606(N)	SB-606(N)-7	9/13/2002	7	Not Present	2.5 U		Not Present
SB-606(N)	SB-606(N)-7	9/13/2002	7		Not Present		
SB-607(N)	SB-607(N)-11	9/13/2002	11	25 U	2.5 U		50 U
SB-608(N)	SB-608(N)-3	9/13/2002	3	Not Present	Not Present		Not Present
SB-608(N)	SB-608(N)-6	9/13/2002	6	Not Present	82.8		Not Present
SB-608(N)	SB-608(N)-6	9/13/2002	6		Present		
SB-609(N)	SB-609(N)-7	9/13/2002	7	Not Present	Not Present		Not Present
SB-612(N)	SB-612 (N)-7	9/12/2002	7	4580	4100		1000 U
SB-612(N)	SB-612 (N)-7	9/12/2002	7	Present	Present		Not Present
SB-613(N)	SB-613 (N)-5.5	9/12/2002	5.5	2270	2110		1000 U
SB-613(N)	SB-613 (N)-5.5	9/12/2002	5.5	Present	Present		Not Present
SB-614(N)	SB-614 (N)-7	9/12/2002	7	809	1370		500 U
SB-614(N)	SB-614 (N)-7	9/12/2002	7	Present	Present		Not Present
SB-615(N)	SB-615 (N)-7	9/12/2002	7	2070	1340		1000 U
SB-615(N)	SB-615 (N)-7	9/12/2002	7	Present	Present		Not Present
SB-616(N)	SB-616 (N)-7	9/12/2002	7	7880	4000		1000 U

TABLE D-1

## PETROLEUM HYDROCARBONS IN SOIL

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Astoria, Oregon

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			feet	mg/kg	mg/kg	mg/kg	mg/kg
SB-616(N)	SB-616 (N)-7	9/12/2002	7	Present	Present		Not Present
SB-617(N)	SB-617 (N)-3	9/12/2002	3	54.1	Not Present		50 U
SB-617(N)	SB-617 (N)-3	9/12/2002	3	Present			Not Present
SB-617(N)	SB-617 (N)-5.5	9/12/2002	5.5	Not Present	4.32		Not Present
SB-617(N)	SB-617 (N)-5.5	9/12/2002	5.5		Not Present		
SB-618(N)	SB-618 (N)-1.5	9/12/2002	1.5	239	7.89		133
SB-618(N)	SB-618 (N)-7	9/12/2002	7	7490	1780		1000 U
SB-618(N)	SB-618 (N)-7	9/12/2002	7	Present	Present		Present
SB-619(N)	SB-619 (N)-11	9/12/2002	11	Not Present	18.1		Not Present
SB-619(N)	SB-619 (N)-11	9/12/2002	11		Not Present		
SB-619(N)	SB-619 (N)-7	9/12/2002	7	Not Present	2.5 U		Not Present
SB-619(N)	SB-619 (N)-7	9/12/2002	7		Not Present		
SB-620(N)	SB-620 (N)-3	9/12/2002	3		2.5 U		
SB-620(N)	SB-620 (N)-7	9/12/2002	7	3480	2130		250 U
SB-620(N)	SB-620 (N)-7	9/12/2002	7	Present	Present		Not Present
SB-621(N)	SB-621 (N)-7	9/12/2002	7	Not Present	2.5 U		Not Present
SB-621(N)	SB-621 (N)-7	9/12/2002	7		Not Present		
SB-622(N)	SB-622 (N)-2	9/12/2002	2	Not Present	Not Present		Not Present
SB-622(N)	SB-622 (N)-2	9/12/2002	2		2.5 U		
SB-622(N)	SB-622 (N)-7	9/12/2002	7	Not Present	2.5 U		Not Present
SB-622(N)	SB-622 (N)-7	9/12/2002	7		Not Present		
SB-623(N)	SB-623 (N)-7	9/12/2002	7	Present	1460		Not Present
SB-623(N)	SB-623 (N)-7	9/12/2002	7	2420	Present		250 U
SB-624(N)	SB-624 (N)-2	9/12/2002	2	25 U	2.5 U		50 U
SB-624(N)	SB-624 (N)-7	9/12/2002	7	5930	753		250 U
SB-624(N)	SB-624 (N)-7	9/12/2002	7	Present	Present		Not Present
SB-625(N)	SB-625 (N)-10	9/12/2002	10	1630	55.5		50 U
SB-625(N)	SB-625 (N)-10	9/12/2002	10	Present	Not Present		Not Present
SB-625(N)	SB-625 (N)-2	9/12/2002	2	25 U	2.5 U		50 U
SB-625(N)	SB-625 (N)-7	9/12/2002	7	Present	6.4		Not Present
SB-625(N)	SB-625 (N)-7	9/12/2002	7	2170	Not Present		500 U
SB-626(N)	SB-626 (N)-7	9/12/2002	7	9600	4560		255
SB-626(N)	SB-626 (N)-7	9/12/2002	7	Present	Present		Not Present
SB-627(N)	SB-627(N)-2	8/28/2003	2	132	31.4		239
SB-629(N)	SB-629(N)-7.5	8/28/2003	7.5	10800	1650		1000 U
SB-632(N)	SB-632(N)-7.5	9/8/2003	7.5	282	1690		36.5 J
SB-700(P)	SB-700(P)-10.5	8/21/2002	10.5	703	2920		50 U
SB-700(P)	SB-700(P)-3	8/21/2002	3	25 U	2.5 U		117
SB-701(P)	SB-701(P)-11	8/20/2002	11	25 U	2.5 U		50 U

TABLE D-1

## PETROLEUM HYDROCARBONS IN SOIL

Remedial Investigation/Feasibility Study  
Astoria Area-Wide Petroleum Site  
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Diesel Range Organics	Gasoline Range Organics	Lubeoil	Residual Range Organics
			feet	mg/kg	mg/kg	mg/kg	mg/kg
SB-701(P)	SB-701(P)-12	8/20/2002	12	25 U	2.5 U		50 U
SB-701(P)	SB-701(P)-2	8/20/2002	2	25 U	2.5 U		50 U
SB-702(P)	SB-702(P)-11	8/21/2002	11	25 U	2.5 U		50 U
SB-702(P)	SB-702(P)-2	8/21/2002	2	25 U	2.5 U		50 U
SB-703(P)	SB-703(P)-10	8/21/2002	10	25 U	2.5 U		50 U
SB-703(P)	SB-703(P)-2	8/21/2002	2	102	15.8		453
SB-704(P)	SB-704(P)-11	8/21/2002	11	25 U	2.5 U J-		50 U
SB-704(P)	SB-704(P)-2	8/21/2002	2	25 U	2.5 U		128
SB-705(P)	SB-705(P)-12	8/20/2002	12	25 U	2.5 U J-		50 U
SB-705(P)	SB-705(P)-3	8/20/2002	3	25 U	2.5 U		50 U
SB-705(P)	SB-705(P)-5.5	8/20/2002	5.5	25 U	2.5 U		50 U
SB-705(P)	SB-705(P)-9.5	8/20/2002	9.5	25 U	2.5 U		60.1
SB-706(P)	SB-706(P)-12	8/21/2002	12	25 U	2.5 U		50 U
SB-706(P)	SB-706(P)-2.5	8/21/2002	2.5	25 U	2.5 U		50 U
SB-706(P)	SB-706(P)-5.5	8/21/2002	5.5	25 U	2.5 U J-		50 U
SB-706(P)	SB-706(P)-9.5	8/21/2002	9.5	25 U	2.5 U		56.9
SB-707(P)	SB-707(P)-10	8/21/2002	10	25 U	2.5 U		50 U
SB-707(P)	SB-707(P)-2	8/21/2002	2	25 U	2.5 U		50 U
SB-708(P)	SB-708(P)-10	8/20/2002	10	25 U	2.5 U		50 U
SB-708(P)	SB-708(P)-3	8/20/2002	3	25 U	2.5 U		50 U
SB-709(P)	SB-709(P)-10	8/21/2002	10	25 U	2.5 U		50 U
SB-709(P)	SB-709(P)-3	8/21/2002	3	35.3	2.5 U		74.4
SB-710(P)	SB-710(P)-3	8/21/2002	3	500 U	2.5 U		2450
SB-711(P)	SB-711(P)-10	8/21/2002	10	25 U	2.5 U		127
SB-711(P)	SB-711(P)-3	8/21/2002	3	25 U	2.5 U		150
SB-712(P)	SB-712(P)-10	8/21/2002	10	250 U	2.5 U		1630
SB-712(P)	SB-712(P)-2	8/21/2002	2	250 U	2.5 U		2110
SB-713(P)	SB-713(P)-10	8/21/2002	10	25 U	2.5 U		50 U
SB-713(P)	SB-713(P)-2	8/21/2002	2	25 U	2.5 U		50 U
SB-714(P)	SB-714(P)-10	8/21/2002	10	5780	3460		500 U
SB-714(P)	SB-714(P)-2	8/21/2002	2	66.4	2.5 U		162
SB-714(P)	SB-714(P)-7.5	8/21/2002	7.5	6240	1150		500 U
SB-715(P)	SB-715(P)-11	8/21/2002	11	77.6	2.5 U		180
SB-715(P)	SB-715(P)-3	8/21/2002	3	25 U	2.5 U J-		50 U
SB-715(P)	SB-715(P)-7	8/21/2002	7	71	8.52		157
SB-716(P)	SB-716(P)-10	8/20/2002	10	25 U	2.5 U		50 U
SB-716(P)	SB-716(P)-3	8/20/2002	3	25 U	2.5 U		50 U
SB-717(P)	SB-717(P)-10	8/20/2002	10	25 U	2.5 U		50 U
SB-717(P)	SB-717(P)-3	8/20/2002	3	25 U	2.5 U		50 U
SB-718(P)	SB-718(P)-10	8/21/2002	10	25 U	2.5 U		50 U

TABLE D-1

## PETROLEUM HYDROCARBONS IN SOIL

Remedial Investigation/Feasibility Study  
Astoria Area-Wide Petroleum Site  
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Diesel Range Organics	Gasoline Range Organics	Lubeoil	Residual Range Organics
			feet	mg/kg	mg/kg	mg/kg	mg/kg
SB-718(P)	SB-718(P)-2	8/21/2002	2	25 U	2.5 U		50 U
SB-719(P)	SB-719(P)-12	8/23/2002	12	25 U	14.5 J-		50 U
SB-719(P)	SB-719(P)-5	8/23/2002	5	25 U	5.07 JB		110
SB-720(P)	SB-720(P)-11.5	8/23/2002	11.5	4350	2590 B		50 U
SB-720(P)	SB-720(P)-2	8/23/2002	2	25 U	7.63		142
SB-720(P)	SB-720(P)-8.5	8/23/2002	8.5	6110	3420		500 U
SB-721(P)	SB-721(P)-7'	3/31/2004	7	25 U	4 U B		50 U
SB-800(Q)	SB-800 (Q)-0	8/27/2002	-	25 U	2.5 U		50 U
SB-800(Q)	SB-800 (Q)-10.5	8/27/2002	10.5	25 U	2.5 J/UJ		50 U
SB-800(Q)	SB-800 (Q)-2	8/27/2002	2	25 U	2.5 U		50 U
SB-801(Q)	SB801(Q)-0	8/26/2002	-	11.2	4 U		23.4
SB-801(Q)	SB801(Q)-2	8/26/2002	2	7.8 U	4 U		15.6 U
SB-801(Q)	SB801(Q)-9.5	8/26/2002	9.5	7.8 U	4 U		15.6 U
SB-802(Q)	SB802(Q)-0	8/26/2002	-	24.6	4 U		57.9
SB-802(Q)	SB802(Q)-2	8/26/2002	2	7.8 U	4 U		15.6 U
SB-802(Q)	SB802(Q)-9	8/26/2002	9	24.5	4 U		57.7
SB-803(Q)	SB803(Q)-0	8/26/2002	-	20.2	4 U		25.3
SB-803(Q)	SB803(Q)-2	8/26/2002	2	7.8 U	4 U		31.1
SB-803(Q)	SB803(Q)-9	8/26/2002	9	57.7	4 U		244
SB-804(Q)	SB-804(Q)-0	8/26/2002	-	7.8 U	4 U		15.6 U
SB-804(Q)	SB-804(Q)-2	8/26/2002	2	305 U	4 U		953
SB-804(Q)	SB-804(Q)-8.5	8/26/2002	8.5	22.5	4 U		169
SB-805(Q)	SB-805(Q)-0	8/26/2002	-	11.7	4 U		22.2
SB-805(Q)	SB-805(Q)-10	8/26/2002	10	7.8 U	4 U		15.6 U
SB-805(Q)	SB-805(Q)-2	8/26/2002	2	16	13.1		31.6
SB-806(Q)	SB-806 (Q)-0	8/28/2002	-	25 U	2.5 U	50 U	
SB-806(Q)	SB-806 (Q)-11	8/28/2002	11	25 U	3.93	50 U	
SB-806(Q)	SB-806 (Q)-2	8/28/2002	2	25 U	2.5 U	50 U	
SB-806(Q)	SB-806 (Q)-8	8/28/2002	8	25 U	4.68	50 U	
SB-807(Q)	SB-807 (Q)-0	8/28/2002	-	82.9	2.96	349	
SB-807(Q)	SB-807 (Q)-7	8/28/2002	7	485	2300 J	50 U	
SB-807(Q)	SB-807 (Q)-9	8/28/2002	9	25 U	28.5	50 U	
SB-809(Q)	SB-809 (Q)-0	8/28/2002	-	25 U	3.08		50 U
SB-809(Q)	SB-809 (Q)-2	8/28/2002	2	25 U	2.5 U		50 U
SB-809(Q)	SB-809 (Q)-8.5	8/28/2002	8.5	25 U	2.5 J/UJ		50 U
SB-810(Q)	SB-810 (Q)-0	8/28/2002	-	25 U	2.5 U		50 U
SB-810(Q)	SB-810 (Q)-2	8/28/2002	2	25 U	2.5 U		50 U
SB-810(Q)	SB-810 (Q)-8	8/28/2002	8	25 U	2.5 U		50 U
SB-811(Q)	SB-811 (Q)-0	8/27/2002	-	25 U	2.5 U		50 U



TABLE D-1

## PETROLEUM HYDROCARBONS IN SOIL

Remedial Investigation/Feasibility Study  
Astoria Area-Wide Petroleum Site  
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Diesel Range Organics	Gasoline Range Organics	Lubeoil	Residual Range Organics
			feet	mg/kg	mg/kg	mg/kg	mg/kg
SB-811(Q)	SB-811 (Q)-5	8/27/2002	5	25 U	2.5 U		50 U
SB-811(Q)	SB-811 (Q)-9	8/27/2002	9	25 U	2.5 J/UJ		60.8
SB-811(Q)	SB-811 (Q)-9C	8/27/2002	9	25 U	2.5 J/UJ		63
SB-812(Q)	SB812(Q)-0	8/27/2002	-	7.8 U	4 U		15.6 U
SB-812(Q)	SB812(Q)-4.5	8/27/2002	4.5	13.2	4 U		15.6 U
SB-812(Q)	SB812(Q)-9	8/27/2002	9	7.8 U	4 U		15.6 U
SB-813(Q)	SB813(Q)-0	8/27/2002	-	25 J/UJ	2.5 U R		50 J/UJ
SB-813(Q)	SB813(Q)-5	8/27/2002	5	7.8 U	4 U		15.6 U
SB-813(Q)	SB813(Q)-9.5	8/27/2002	9.5	7.8 U	4 U		15.6 U
SB-814(Q)	SB814(Q)-0	8/27/2002	-	7.8 U	4 U		15.6 U
SB-814(Q)	SB814(Q)-4.5	8/27/2002	4.5	16.1	4 U		15.6 U
SB-814(Q)	SB814(Q)-9	8/27/2002	9	14.1	4 U		15.6 U
SB-815(Q)	SB815(Q)-0	8/27/2002	-	13.5	4 U		15.6 U
SB-815(Q)	SB815(Q)-4.5	8/27/2002	4.5	163	4 U		571
SB-815(Q)	SB815(Q)-9.5	8/27/2002	9.5	16.7	4 U		24.9
SB-816(Q)	SB816(Q)-0	8/27/2002	-	7.8 U	4 U		15.6 U
SB-816(Q)	SB816(Q)-2	8/27/2002	2	7.8 U	4 U		15.6 U
SB-816(Q)	SB816(Q)-9.5	8/27/2002	9.5	7.8 U	4 U		15.6 U
SB-817(Q)	SB-817 (Q)-0	8/28/2002	-	25 U	2.5 U	50 U	
SB-817(Q)	SB-817 (Q)-2	8/28/2002	2	116	2.88	162	
SB-817(Q)	SB-817 (Q)-9	8/28/2002	9	38.6	2.5 U	90.6	
SB-818(Q)	SB-818 (Q)-0	8/28/2002	-	25 U	2.5 U	50 U	
SB-818(Q)	SB-818 (Q)-4	8/28/2002	4	29.6	2.6	50 U	
SB-818(Q)	SB-818 (Q)-9	8/28/2002	9	25 U	2.5 U	50 U	
SB-819(Q)	SB-819 (Q)-0	8/28/2002	-	25 U	2.5 U	50 U	
SB-819(Q)	SB-819 (Q)-11	8/28/2002	11	25 U	3.36	50 U	
SB-819(Q)	SB-819 (Q)-5	8/28/2002	5	69.8	2.5 J/UJ	50 U	
SB-820(Q)	SB-820 (Q)-0	8/29/2002	-	47.5	2.6	131	
SB-820(Q)	SB-820 (Q)-2	8/29/2002	2	30.4	3.41	67.2	
SB-820(Q)	SB-820 (Q)-9	8/29/2002	9	25 U	3.44	50 U	
SB-820(Q)	SB-820 (Q)-9C	8/29/2002	9	186	537 J	181	
SB-821(Q)	SB-821 (Q)-0	8/29/2002	-	25 U	2.5 U	131	
SB-821(Q)	SB-821 (Q)-5	8/29/2002	5	1070	1950 J	87.2	
SB-821(Q)	SB-821 (Q)-5C	8/29/2002	5	324	459 J	50 U	
SB-821(Q)	SB-821 (Q)-9	8/29/2002	9	25 U	12.3	50 U	
SB-822(Q)	SB-822 (Q)-0	8/29/2002	-	25 U	2.5 U	50 U	
SB-822(Q)	SB-822 (Q)-10	8/29/2002	10	25 J/UJ	10.5	50 U	
SB-822(Q)	SB-822 (Q)-2	8/29/2002	2	25 U	2.5 U	50 U	
SB-822(Q)	SB-822 (Q)-2C	8/29/2002	2	25 U	2.5 U	50 U	
SB-822(Q)	SB-822 (Q)-8	8/29/2002	8	429	7620 J	50 U	

TABLE D-1

## PETROLEUM HYDROCARBONS IN SOIL

Remedial Investigation/Feasibility Study  
Astoria Area-Wide Petroleum Site  
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Diesel Range Organics	Gasoline Range Organics	Lubeoil	Residual Range Organics
			feet	mg/kg	mg/kg	mg/kg	mg/kg
SB-823(Q)	SB-823 (Q)-0	8/27/2002	-	48.6	2.5 U		146
SB-823(Q)	SB-823 (Q)-2	8/27/2002	2	25 U	2.5 U		50 U
SB-823(Q)	SB-823 (Q)-9	8/27/2002	9	50 U	2.5 U		288
SB-824(Q)	SB-824 (Q)-0	8/27/2002	-	25 U	2.5 U		50 U
SB-824(Q)	SB-824 (Q)-3	8/27/2002	3	25 U	2.5 U		50 U
SB-824(Q)	SB-824 (Q)-9	8/27/2002	9	25 U	2.93		50 U
SB-825(Q)	SB-825 (Q)-0	8/27/2002	-	25 U	2.5 U		50 U
SB-825(Q)	SB-825 (Q)-2	8/27/2002	2	25 U	2.5 U		50 U
SB-825(Q)	SB-825 (Q)-9	8/27/2002	9	25 U	2.5 J/UJ		50 U
SB-826(Q)	SB-826 (Q)-0	8/27/2002	-	25 U	2.5 U		50 U
SB-826(Q)	SB-826 (Q)-3	8/27/2002	3	25 U	2.5 U		50 U
SB-826(Q)	SB-826 (Q)-9	8/27/2002	9	25 U	2.5 U		50 U
SB-827(Q)	SB-827 (Q)-0	8/29/2002	-	25 U	2.5 U	50 U	
SB-827(Q)	SB-827 (Q)-2	8/29/2002	2	25 U	3.19	50 U	
SB-827(Q)	SB-827 (Q)-6.5	8/29/2002	6.5	25 U	3.16	50 U	
SB-828(Q)	SB-828 (Q)-0	8/28/2002	-	25 U	2.5 J/UJ		50 U
SB-828(Q)	SB-828 (Q)-2	8/28/2002	2	25 U	6.87		50 U
SB-828(Q)	SB-828 (Q)-8.5	8/28/2002	8.5	25 U	2.5 J/UJ		50 U
SB-829(Q)	SB-829 (Q)-0	8/28/2002	-	39.8	3.44	201	
SB-829(Q)	SB-829 (Q)-2	8/28/2002	2	25 U	2.5 U	50 U	
SB-829(Q)	SB-829 (Q)-2C	8/28/2002	2	25 U	2.5 U	50 U	
SB-829(Q)	SB-829 (Q)-9	8/28/2002	9	250 U	2.5 U	926	
SB-830(Q)	SB-830 (Q)-0	8/28/2002	-	25 U	2.5 U	50 U	
SB-830(Q)	SB-830 (Q)-2	8/28/2002	2	25 U	2.5 U	50 U	
SB-830(Q)	SB-830 (Q)-8.5	8/28/2002	8.5	31.9	2.5 U	130	
SB-831(Q)	SB-831 (Q)-0	8/28/2002	-	25 U	2.5 U	50 U	
SB-831(Q)	SB-831 (Q)-4	8/28/2002	4	25 U	2.5 U	50 U	
SB-831(Q)	SB-831 (Q)-9	8/28/2002	9	27.2	2.5 U	50 U	
SB-832(Q)	SB-832 (Q)-0	8/28/2002	-	25 U	2.5 U	50 U	
SB-832(Q)	SB-832 (Q)-2	8/28/2002	2	25 U	2.5 U	50 U	
SB-832(Q)	SB-832 (Q)-9	8/28/2002	9	25 U	7.11	50 U	
SB-833(Q)	SB-833 (Q)-0	8/28/2002	-	250 U	2.5 U	563	
SB-833(Q)	SB-833 (Q)-10.5	8/28/2002	10.5	25 U	6.48	50 U	
SB-833(Q)	SB-833 (Q)-2	8/28/2002	2	25 U	2.5 U	50 U	
SB-834(Q)	SB-834(Q)-2	9/5/2003	2	25 U	4 U		50 U
SB-834(Q)	SB-834(Q)-7.5	9/5/2003	7.5	25 U	4 U		50 U
SB-835(Q)	SB-835(Q)-2	9/5/2003	2	25 U	4 U		107
SB-835(Q)	SB-835(Q)-7	9/5/2003	7	25 U	4 U		50 U
SB-900(S)	SB-900(S)-12	8/26/2002	12	261	2160 J		50 U

TABLE D-1

## PETROLEUM HYDROCARBONS IN SOIL

Remedial Investigation/Feasibility Study  
Astoria Area-Wide Petroleum Site  
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Diesel Range Organics	Gasoline Range Organics	Lubeoil	Residual Range Organics
			feet	mg/kg	mg/kg	mg/kg	mg/kg
SB-900(S)	SB-900(S)-4	8/26/2002	4	96			184
SB-901(S)	SB-901 (S)-10	8/26/2002	10	25 U	2.5 U		50 U
SB-901(S)	SB-901 (S)-8	8/26/2002	8	25 U	2.5 U		50 U
SB-902(S)	SB-902 (S)-12	8/26/2002	12	1770			76.7
SB-902(S)	SB-902 (S)-8	8/26/2002	8	81.3	29.6		50 U
SB-903(S)	SB-903 (S)-10	8/26/2002	10	16400	396		500 U
SB-903(S)	SB-903 (S)-8	8/26/2002	8	437	2.5 U		162
SB-904(S)	SB-904 (S)-12	8/26/2002	12	23100	647		500 U
SB-904(S)	SB-904 (S)-4	8/26/2002	4	1200	2.5 U		3070
SB-905(S)	SB-905 (S)-12	8/26/2002	12	25 U	2.5 U		50 U
SB-905(S)	SB-905 (S)-4	8/26/2002	4	3630	3.23		7500
SB-906(S)	SB-906 (S)-12	8/27/2002	12	11200			500 U
SB-906(S)	SB-906 (S)-4	8/27/2002	4	1570			1100
SB-908(S)	SB-908 (S)-10	8/27/2002	10	25 U	2.5 U		50 U
SB-908(S)	SB-908 (S)-4	8/27/2002	4	7550			12300
SB-908(S)	SB-908 (S)-8	8/27/2002	8	25 U			50 U
SB-909(S)	SB-909 (S)-10	8/27/2002	10	250 U	2.5 U		894
SB-909(S)	SB-909 (S)-4	8/27/2002	4	1300	3.19		5500
SB-910(S)	SB-910 (S)-10	8/27/2002	10	25 U	2.5 U		50 U
SB-910(S)	SB-910 (S)-4	8/27/2002	4	32.5			241
SB-911(S)	SB-911 (S)-10	8/27/2002	10	25 U	2.62		50 U
SB-911(S)	SB-911 (S)-8	8/27/2002	8	25 U	2.5 U		50 U
SB-912(S)	SB-912(S)-2	9/3/2003	2	27.8	4 U		130
SB-912(S)	SB-912(S)-7	9/3/2003	7	25 U	4 U		50 U
SB-913(S)	SB-913(S)-2	9/3/2003	2	2440	2.58 J		6390
SB-913(S)	SB-913(S)-7	9/3/2003	7	2050	4.64		1250
SB-914(S)	SB-914(S)-2	9/3/2003	2	25 U	4 U		50 U
SB-914(S)	SB-914(S)-7.5	9/3/2003	7.5	25 U	4 U		50 U
SB-915(S)	SB-915(s)-5.0	3/31/2004	5	25 U	Not Present		294
SB-915(S)	SB-915(s)-5.0	3/31/2004	5	Present J			Present
SB-916(S)	SB-916(s)-5.0	3/31/2004	5	Not Present	Not Present		Not Present
SB-917(S)	SB-917(s)-5.0	3/31/2004	5	Not Present	Not Present		Not Present
SB-918(S)	SB-918(s)-5.0	3/31/2004	5	Present J	Present J		Not Present
SB-919(S)	SB-919(s)-5.0	3/31/2004	5	Not Present	Not Present		Not Present
SS-1	FMNBP-SS-1	9/6/2006	-	6920	1120		381
SS-4	FMNBP-SS-4	9/6/2006	-	3480	1240		77.8 U
UST--E-9	UST-E-9	11/9/2004	-	50 U	20 U		100 U
UST-W-9	UST-W-9	11/9/2004	-	1	20 U		100 U

**TABLE D-1**

**PETROLEUM HYDROCARBONS IN SOIL**

Remedial Investigation/Feasibility Study  
Astoria Area-Wide Petroleum Site  
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Diesel Range Organics	Gasoline Range Organics	Lubeoil	Residual Range Organics
			feet	mg/kg	mg/kg	mg/kg	mg/kg
UST-W-9	UST-W-9	11/9/2004	-	50 U			50 U