TABLE B-15
PREVALENCE OF DETECTED CHEMICALS IN SOIL AND SEDIMENT - OFF-SITE AREAS
CASMALIA RESOURCES SUPERFUND SITE REMEDIAL INVESTIGATION

Compound	CAS Number	All Depth Ranges					0 to 6 Inches					0 to 5 Feet					0 to 10 Feet					Greater than 10 Feet					Screening Levels					
		Number of Detects	Number of Samples Collected	FOD[1]	Range of Detected Concentrations[2]	Average Detected Value	Number of Detects	Number of Samples Collected	FOD[1]	Range of Detected Concentrations[2]	Average Detected Value	Number of Detects	Number of Samples Collected	FOD[1]	Range of Detected Concentrations[2]	Average Detected Value	Number of Detects	Number of Samples Collected	FOD[1]	Range of Detected Concentrations[2]	Average Detected Value	Number of Detects	Number of Samples Collected	FOD[1]	Range of Detected Concentrations[2]	Average Detected Value	Industrial PRG	Industrial PRG (CA)	Residential PRG	Residential PRG (CA)	Lowest Ecological Screening Level	UTL[3]
SOIL																																
Metals (mg/kg)																																
Aluminum	7429-90-5	3 / 3	100%	10000 - 15000	12000	3 / 3	100%	10000 - 15000	12000	3 / 3	100%	10000 - 15000	12000	3 / 3	100%	10000 - 15000	12000	/	-	100000	76141.95085	18000
Arsenic	7440-38-2	3 / 3	100%	2 - 3.6	2.867	3 / 3	100%	2 - 3.6	2.867	3 / 3	100%	2 - 3.6	2.87	3 / 3	100%	2 - 3.6	2.87	/	-	1.590407549	0.251396321	0.389623911	0.061555222	18	22
Barium	7440-39-3	3 / 3	100%	66 - 93	76	3 / 3	100%	66 - 93	76	3 / 3	100%	66 - 93	76	3 / 3	100%	66 - 93	76	/	-	66577.34934	5400	5374.905836		330	174
Beryllium	7440-41-7	3 / 3	100%	0.46 - 0.67	0.537	3 / 3	100%	0.46 - 0.67	0.537	3 / 3	100%	0.46 - 0.67	0.54	3 / 3	100%	0.46 - 0.67	0.54	/	-	1940.690344		154.3741586		10	0.91
Cadmium	7440-43-9	3 / 3	100%	0.64 - 1.8	1.12	3 / 3	100%	0.64 - 1.8	1.12	3 / 3	100%	0.64 - 1.8	1.12	3 / 3	100%	0.64 - 1.8	1.12	/	-	451.4132238		37.03327785		0.36	3.2
Calcium	7440-70-2	3 / 3	100%	3600 - 4700	4033.33	3 / 3	100%	3600 - 4700	4033.33	3 / 3	100%	3600 - 4700	4033.33	3 / 3	100%	3600 - 4700	4033.33	/	-						
Chromium	7440-47-3	3 / 3	100%	22 - 33	26.667	3 / 3	100%	22 - 33	26.67	3 / 3	100%	22 - 33	26.67	3 / 3	100%	22 - 33	26.67	/	-	448.3169314		210.6753498		0.4	47
Cobalt	7440-48-4	3 / 3	100%	3.5 - 8.6	6.133	3 / 3	100%	3.5 - 8.6	6.133	3 / 3	100%	3.5 - 8.6	6.13	3 / 3	100%	3.5 - 8.6	6.13	/	-	1921.352617		902.8931064		13	20
Copper	7440-50-8	3 / 3	100%	8.8 - 12	10.033	3 / 3	100%	8.8 - 12	10.033	3 / 3	100%	8.8 - 12	10.03	3 / 3	100%	8.8 - 12	10.03	/	-	40876.65792		3128.551853		28	19
Iron	7439-89-6	3 / 3	100%	14000 - 25000	19000	3 / 3	100%	14000 - 25000	19000	3 / 3	100%	14000 - 25000	19000	3 / 3	100%	14000 - 25000	19000	/	-	100000		23463.18462			25000
Lead	7439-92-1	1 / 3	33%	8.5 - 8.5	2.83	1 / 3	33%	8.5 - 8.5	2.833	1 / 3	33%	8.5 - 8.5	2.83	1 / 3	33%	8.5 - 8.5	2.83	/	-	800		400	150	11	11.9
Magnesium	7439-95-4	3 / 3	100%	3500 - 5400	4266.667	3 / 3	100%	3500 - 5400	4266.667	3 / 3	100%	3500 - 5400	4266.667	3 / 3	100%	3500 - 5400	4266.67	/	-						55000
Manganese	7439-96-5	3 / 3	100%	81 - 300	220.333	3 / 3	100%	81 - 300	220.333	3 / 3	100%	81 - 300	220.33	3 / 3	100%	81 - 300	220.33	/	-	19458.10708		1762.353193			330
Molybdenum	7439-98-7	2 / 3	67%	2.4 - 2.7	1.7	2 / 3	67%	2.4 - 2.7	1.7	2 / 3	67%	2.4 - 2.7	1.7	2 / 3	67%	2.4 - 2.7	1.7	/	-	5109.947776		391.0711227		2	10
Nickel	7440-02-0	3 / 3	100%	25 - 33	28.667	3 / 3	100%	25 - 33	28.667	3 / 3	100%	25 - 33	28.67	3 / 3	100%	25 - 33	28.67	/	-	20439.16445		1564.28082		30	49
Potassium	9/7/7440	3 / 3	100%	2200 - 2800	2566.667	3 / 3	100%	2200 - 2800	2566.667	3 / 3	100%	2200 - 2800	2566.67	3 / 3	100%	2200 - 2800	2566.67	/	-						
Sodium	7440-23-5	3 / 3	100%	530 - 1100	876.667	3 / 3	100%	530 - 1100	876.667	3 / 3	100%	530 - 1100	876.67	3 / 3	100%	530 - 1100	876.67	/	-						
Thallium	7440-28-0	3 / 3	100%	0.23 - 0.36	0.31	3 / 3	100%	0.23 - 0.36	0.31	3 / 3	100%	0.23 - 0.36	0.31	3 / 3	100%	0.23 - 0.36	0.31	/	-	67.4519909		5.162142804		1	0.64
Tin	7440-31-5	3 / 3	100%	30 - 40	36.667	3 / 3	100%	30 - 40	36.667	3 / 3	100%	30 - 40	36.67	3 / 3	100%	30 - 40	36.67	/	-	100000		46924.16726		50	65
Vanadium	7440-62-2	3 / 3	100%	24 - 39	29	3 / 3	100%	24 - 39	29	3 / 3	100%	24 - 39	29	3 / 3	100%	24 - 39	29	/	-	1021.997911		78.21427348		2	81
Zinc	7440-66-6	3 / 3	100%	42 - 46	44.67	3 / 3	100%	42 - 46	44.667	3 / 3	100%	42 - 46	44.67	3 / 3	100%	42 - 46	44.67	/	-	100000		23463.18462		50	104
SVOCs (mg/kg)																																
Benzoic acid	65-85-0	3 / 3	100%	0.05 - 0.1	0.078	3 / 3	100%	0.05 - 0.1	0.078	3 / 3	100%	0.05 - 0.1	0.078	3 / 3	100%	0.05 - 0.1	0.078	/	-	100000		100000			
PAHs (mg/kg)																																
N-Nitrosodimethylamine	62-75-9	1 / 3	33%	0.016 - 0.016	0.005	1 / 3	33%	0.016 - 0.016	0.005	1 / 3	33%	0.016 - 0.016	0.01	1 / 3	33%	0.016 - 0.016	0.01	/	-	0.033798114		0.009536893			
Dioxins and Furans (pg/g)																																
1,2,3,4,6,7,8-HpCDD	35822-46-9	1 / 1	100%	2.014 - 2.014	2.014	1 / 1	100%	2.014 - 2.014	2.014	1 / 1	100%	2.014 - 2.014	2.014	1 / 1	100%	2.014 - 2.014	2.014	/	-						
1,2,3,4,6,7,8-HpCDF	67562-39-4	1 / 1	100%	1.341 - 1.341	1.341	1 / 1	100%	1.341 - 1.341	1.341	1 / 1	100%	1.341 - 1.341	1.341	1 / 1	100%	1.341 - 1.341	1.341	/	-						
1,2,3,4,7,8,9-HpCDF	55673-89-7	1 / 1	100%	0.5 - 0.5	0.5	1 / 1	100%	0.5 - 0.5	0.5	1 / 1	100%	0.5 - 0.5	0.5	1 / 1	100%	0.5 - 0.5	0.5	/	-						
1,2,3,4,7,8-HxCDF	70648-26-9	1 / 1	100%	1.712 - 1.712	1.712	1 / 1	100%	1.712 - 1.712	1.712	1 / 1	100%	1.712 - 1.712	1.712	1 / 1	100%	1.712 - 1.712	1.712	/	-						
1,2,3,6,7,8-HxCDD	57653-85-7	1 / 1	100%	1.21 - 1.21	1.21	1 / 1	100%	1.21 - 1.21	1.21	1 / 1	100%	1.21 - 1.21	1.21	1 / 1	100%	1.21 - 1.21	1.21	/	-						
1,2,3,6,7,8-HxCDF	57117-44-9	1 / 1	100%	0.519 - 0.519	0.519	1 / 1	100%	0.519 - 0.519	0.519	1 / 1	100%	0.519 - 0.519	0.519	1 / 1	100%	0.519 - 0.519	0.519	/	-						
1,2,3,7,8,9-HxCDD	19408-74-3	1 / 1	100%	1.31 - 1.31	1.31	1 / 1	100%	1.31 - 1.31	1.31	1 / 1	100%	1.31 - 1.31	1.31	1 / 1	100%	1.31 - 1.31	1.31	/	-						
1,2,3,7,8,9-HxCDF	72918-21-9	1 / 1	100%	0.783 - 0.783	0.783	1 / 1	100%	0.783 - 0.783	0.783	1 / 1	100%	0.783 - 0.783	0.783	1 / 1	100%	0.783 - 0.783	0.783	/	-						
1,2,3,7,8-PeCDF	57117-41-6	1 / 1	100%	2.191 - 2.191	2.191	1 / 1	100%	2.191 - 2.191	2.191	1 / 1	100%	2.191 - 2.191	2.191	1 / 1	100%	2.191 - 2.191	2.191	/	-						
2,3,4,7,8-PeCDF	57117-31-4	1 / 1	100%	1.242 - 1.242	1.242	1 / 1	100%	1.242 - 1.242	1.242	1 / 1	100%	1.242 - 1.242	1.242	1 / 1	100%	1.242 - 1.242	1.242	/	-						
2,3,7,8-TCDF	51207-31-9	1 / 1	100%	11.148 - 11.148	11.148	1 / 1	100%	11.148 - 11.148	11.148	1 / 1	100%	11.148 - 11.148	11.148	1 / 1	100%	11.148 - 11.148	11.148	/	-						
OCDD	3268-87-9	1 / 1	100%	15.659 - 15.659	15.659	1 / 1	100%	15.659 - 15.659	15.659	1 / 1	100%	15.659 - 15.659	15.659	1 / 1	100%	15.659 - 15.659	15.659	/	-						
OCDF	39001-02-0	1 / 1	100%	25.068 - 25.068	25.068	1 / 1	100%	25.068 - 25.068	25.068	1 / 1	100%	25.068 - 25.068	25.068	1 / 1	100%	25.068 - 25.068	25.068	/	-						
Total HpCDD	37871-00-4	1 / 1	100%	3.52 - 3.52	3.52	1 / 1	100%	3.52 - 3.52	3.52	1 / 1	100%	3.52 - 3.52	3.52	1 / 1	100%	3.52 - 3.52	3.52	/	-						
Total HpCDF	38998-75-3	1 / 1	100%	3.09 - 3.09	3.09	1 / 1	100%	3.09 - 3.09	3.09	1 / 1	100%	3.09 - 3.09	3.09	1 / 1	100%	3.09 - 3.09	3.09	/	-						
Total HxCDD	34465-46-8	1 / 1	100%	2.52 - 2.52	2.52	1 / 1	100%	2.52 - 2.52	2.52	1 / 1	100%	2.52 - 2.52	2.52	1 / 1	100%	2.52 - 2.52	2.52	/	-						
Total HxCDF	55684-94-1	1 / 1	100%	2.947 - 2.947	2.947	1 / 1	100%	2.947 - 2.947	2.947	1 / 1	100%	2.947 - 2.947	2.947	1 / 1	100%	2.947 - 2.947	2.947	/	-						
Total PeCDF	30402-15-4	1 / 1	100%	5.424 - 5.424	5.424	1 / 1	100%	5.424 - 5.424	5.424	1 / 1	100%	5.424 - 5.424	5.424	1 / 1	100%	5.424 - 5.424	5.424	/	-						
Total TCDF	55722-27-5	1 / 1	100%	17.17 - 17.17	17.17	1 / 1	100%	17.17 - 17.17	17.17	1 / 1	100%	17.17 - 17.17	17.17	1 / 1	100%	17.17 - 17.17	17.17	/	-						
Total TEQ	URS-TEQ-02	1 / 1	100%	2.1572981 - 2.1572981	2.157	1 / 1	100%	2.1572981 - 2.1572981	2.1573	1 / 1	100%	2.1572981 - 2.1572981	2.157	1 / 1	100%	2.1572981 - 2.1572981	2.157	/	-	15.92229844					12
TOC (mg/kg)																																
Total Organic Carbon	7440-44-0	2 / 2	100%	2160 - 4820	3490	/		-		2 / 2	100%	2160 - 4820	3490	2 / 2	100%	2160 - 4820	3490	/	-						
FOC (g/g)																																
Fractional Organic Carbon	FC7440-44-0	2 / 2	100%	0.00216 - 0.00482	0.003	/		-		2 / 2	100%	0.00216 - 0.00482	0.003	2 / 2	100%	0.00216 - 0.00482	0.003	/	-						
SEDIMENT																																
Metals (mg/kg)																																
Aluminum	7429-90-5	13 / 13	100%	6500 - 11000	9684.615	13 / 13	100%	6500 - 11000	9684.615	13 / 13	100%	6500 - 11000	9684.615	13 / 13	100%	6500 - 11000	9684.615	/	-	100000					18000
Arsenic	7440-38-2	13 / 13	100%	2.3 - 7.2	4.4	13 / 13	100%	2.3 - 7.2	4.4	13 / 13	100%	2.3 - 7.2	4.4	13 / 13	100%	2.3 - 7.2	4.4	/	-	1.590407549	0.251396321			8.2	22
Barium	7440-39-3	13 / 13	100%	64 - 120	88.692	13 / 13	100%	64 - 120	88.692	13 / 13	100%	64 - 120	88.692	13 / 13	100%	64 - 120	88.692	/	-	66577.34934				500	174
Beryllium	7440-41-7	13 / 13	100%	0.28 - 0.58	0.466	13 / 13	100%	0.28 - 0.58	0.466	13 / 13	100%	0.28 - 0.58	0.466	13 / 13	100%	0.28 - 0.58	0.466	/	-	1940.690344				10	0.91
Cadmium	7440-43-9	13 / 13	100%	0.63 - 4.9	1.618	13 / 13	100%	0.63 - 4.9	1.618	13 / 13	100%	0.63 - 4.9	1.618	13 / 13	100%	0.63 - 4.9	1.618	/	-	451.4132238				0.99	3.2
Calcium	7440-70-2	12 / 13	92%	4200 - 27000	9561.538	12 / 13	92%	4200 - 27000	9561.538	12 / 13	92%	4200 - 27000	9561.538	12 / 13	92%	4200 - 27000	9561.538	/	-						
Chromium	7440-47-3	13 / 13	100%	16 - 41	25.615	13 / 13	100%	16 - 41	25.615	13 / 13	100%	16 - 41	25.615	13 / 13	100%	16 - 41	25.615	/	-	448.3169314				0.4	47
Cobalt	7440-48-4	13 / 13	100%	2.6 - 9	5.415	13 / 13	100%	2.6 - 9	5.415	13 / 13	100%	2.6 - 9	5.415	13 / 13	100%	2.6 - 9	5.415	/	-	1921.352617				20	20
Copper	7440-50-8	13 / 13	100%	7.9 - 24	11.585	13 / 13	100%	7.9 - 24	11.585	13 / 13	100%	7.9 - 24	11.585	13 / 13	100%	7.9 - 24	11.585	/	-	40876.65792				31.6	19
Iron	7439-89-6	13 / 13	100%	11000 - 18000	15923.077	13 / 13	100%	11000 - 18000	15923.077	13 / 13	100%	11000 - 18000	15923.077	13 / 13	100%	11000 - 18000	15923.077	/	-	100000					25000
Lead	7439-92-1	2 / 13	15%	8.8 - 9.8	1.431	2 / 13	15%	8.8 - 9.8	1.431	2 / 13	15%	8.8 - 9.8	1.431	2 / 13	15%	8.8 - 9.8	1.431	/	-	800				35.8	11.9
Magnesium	7439-95-4	13 / 13	100%	2700 - 8200	4130.769	13 / 13	100%	2700 - 8200	4130.769	13 / 13	100%	2700 - 8200	4130.769	13 / 13	100%	2700 - 8200	4130.769	/	-						55000
Manganese	7439-96-5	13 / 13	100%	88 - 840	269.846	13 / 13	100%	88 - 840	269.846	13 / 13	100%	88 - 840	269.846	13 / 13	100%	88 - 840	269.846	/	-	19458.10708				500	330
Mercury	7439-97-6	1 / 13	8%	0.033 - 0.033	0.003	1 / 13	8%	0.033 - 0.033	0.003	1 / 13	8%	0.033 - 0.033	0.003	1 / 13	8%	0.033 - 0.033	0.003	/	-	306.599812				0.1	0.026
Molybdenum	7439-98-7	8 / 13	62%	2.2 - 6.4	2.462	8 / 13	62%	2.2 - 6.4	2.462	8 / 13	62%	2.2 - 6.4	2.462	8 / 13	62%	2.2 - 6.4	2.462	/	-	5109.947776				2	10
Nickel	7440-02-0	13 / 13	100%	20 - 43	29.692	13 / 13	100%	20 - 43	29.692	13 / 13	100%	20 - 43	29.692	13 / 13	100%	20 - 43	29.692	/	-	20439.16445				20.9	49
Potassium	9/7/7440	13 / 13	100%	1400 - 4300	2315.385	13 / 13	100%	1400 - 4300	2315.385	13 / 13	100%	1400 - 4300	2315.385	13 / 13	100%	1400 - 4300	2315.385	/	-						
Selenium	7782-49-2	2 / 13	15%	1.1 - 3.5	0.354	2 / 13	15%	1.1 - 3.5	0.354	2 / 13	15%	1.1 - 3.5	0.354	2 / 13	15%	1.1 - 3.5	0.354	/	-	5109.947776				1	3.3
Sodium	7440-23-5	13 / 13	100%	510 - 14000	2405.385	13 / 13	100%	510 - 14000	2405.385	13 / 13	100%	510 - 14000	2405.385	13 / 13	100%	510 - 14000	2405.385	/	-						
Thallium	7440-28-0	3 / 13	23%	0.25 - 0.26	0.059	3 / 13	23%	0.25 - 0.26	0.059	3 / 13	23%	0.25 - 0.26	0.059	3 / 13	23%	0.25 - 0.26	0.059	/	-	67.4519909				1	0.64
Tin	7440-31-5	8 / 13	62%	40 - 53	30.077	8 / 13	62%	40 - 53	30.077	8 / 13	62%	40 - 53	30.077	8 / 13	62%	40 - 53	30.077	/	-	100000				50	65
Vanadium	7440-62-2	13 / 13	100%	25 - 69	35	13 / 13	100%	25 - 69	35	13 / 13	100%	25 - 69	35	13 / 13	100%	25 - 69	35	/	-	1021.997911				2	81
Zinc	7440-66-6	13 / 13	100%	33 - 88	42.692	13 / 13	100%	33 - 88	42.692	13 / 13	100%	33 - 88	42.692	13 / 13	100%	33 - 88	42.692	/	-	100000				50	104
VOCs (mg/kg)																																
Benzene	71-43-2	1 / 3	33%	0.0033 - 0.0033	0.001	1 / 3	33%	0.0033 - 0.0033	0.0011	1 / 3	33%	0.0033 - 0.0033	0.001	1 / 3	33%	0.0033 - 0.0033	0.001	/	-	1.409401928					
Carbon disulfide	75-15-0	1 / 3	33%	0.01 - 0.01	0.003	1 / 3	33%	0.01 - 0.01	0.003333333	1 / 3	33%	0.01 - 0.01	0.003	1 / 3	33%	0.01 - 0.01	0.003	/	-	720					
Ethylbenzene	100-41-4	1 / 3	33%	0.0069 - 0.0069	0.002	1 / 3	33%	0.0069 - 0.0069	0.0023	1 / 3	33%	0.0069 - 0.0069	0.002	1 / 3	33%	0.0069 - 0.0069	0.002	/	-	395					
Propanal	123-38-6	1 / 3	33%	0.94 - 0.94	0.313	1 / 3	33%	0.94 - 0.94	0.313333333	1 / 3	33%	0.94 - 0.94	0.313	1 / 3	33%	0.94 - 0.94	0.313	/	-						
SVOCs (mg/kg)																																
Benzoic acid	65-85-0	1 / 12	8%	1.3 - 1.3	0.108	1 / 12	8%	1.3 - 1.3	0.108333333	1 / 12	8%	1.3 - 1.3	0.108	1 / 12	8%	1.3 - 1.3	0.108	/	-	100000					
Bis(2-ethylhexyl)phthalate	117-81-7	1 / 12	8%	0.24 - 0.24	0.02	1 / 12	8%	0.24 - 0.24	0.02	1 / 12	8%	0.24 - 0.24	0.02	1 / 12	8%	0.24 - 0.24	0.02	/	-	123.1212582				0.182	
Diethylphthalate	84-66-2	3 / 12	25%	0.22 - 0.27	0.061	3 / 12	25%	0.22 - 0.27	0.060833333	3 / 12	25%	0.22 - 0.27	0.061	3 / 12	25%	0.22 - 0.27	0.061	/	-	100000				100	
Di-n-butylphthalate	84-74-2	1 / 12	8%	0.38 - 0.38	0.032	1 / 12	8%	0.38 - 0.38	0.031666667	1 / 12	8%	0.38 - 0.38	0.032	1 / 12	8%	0.38 - 0.38	0.032	/	-	61560.62909				200	
PAHs (mg/kg)																																
2-Methylnaphthalene	91-57-6	13 / 13	100%	0.00077 - 0.0013	0.001	13 / 13	100%	0.00077 - 0.0013	0.000983846	13 / 13	100%	0.00077 - 0.0013	0.001	13 / 13	100%	0.00077 - 0.0013	0.001	/	-					0.07	
Acenaphthene	83-32-9	1 / 13	8%	0.0002 - 0.0002	1.538E-05	1 / 13	8%	0.0002 - 0.0002	1.53846E-05	1 / 13	8%	0.0002 - 0.0002	1.538E-05	1 / 13	8%	0.0002 - 0.0002	1.538E-05	/	-	29219.32727				0.016	
Acenaphthylene	208-96-8	1 / 13	8%	0.00066 - 0.00066	5.077E-05	1 / 13	8%	0.00066 - 0.00066	5.077E-05	1 / 13	8%	0.00066 - 0.00066	5.077E-05	1 / 13	8%	0.00066 - 0.00066	5.077E-05	/	-					0.044	
Anthracene	120-12-7	1 / 13	8%	0.0017 - 0.0017	0.000	1 / 13	8%	0.0017 - 0.0017	0.000	1 / 13	8%	0.0017 - 0.0017	0.000	1 / 13	8%	0.0017 - 0.0017	0.000	/	-	100000					
Benzo(a)anthracene	56-55-3	7 / 13	54%	0.00033 - 0.0038	0.001	7 / 13	54%	0.00033 - 0.0038	0.000623077	7 / 13	54%	0.00033 - 0.0038	0.001	7 / 13	54%	0.00033 - 0.0038	0.001	/	-	2.109622922				0.108	
Benzo(a)pyrene	50-32-8	5 / 13	38%	0.00029 - 0.0035	0.000	5 / 13	38%	0.00029 - 0.0035	0.000	5 / 13	38%	0.00029 - 0.0035	0.000	5 / 13	38%	0.00029 - 0.0035	0.000	/	-	0.210962292				0.15	
Benzo(b)fluoranthene	205-99-2	3 / 13	23%	0.00068 - 0.0026	0.000	3 / 13	23%	0.00068 - 0.0026	0.000	3 / 13	23%	0.00068 - 0.0026	0.000	3 / 13	23%	0.00068 - 0.0026	0.000	/	-	2.109622922					
Benzo(g,h,i)perylene	191-24-2	6 / 13	46%	0.0003 - 0.0029	0.001	6 / 13	46%	0.0003 - 0.0029	0.001	6 / 13	46%	0.0003 - 0.0029	0.001	6 / 13	46%	0.0003 - 0.0029	0.001	/	-						
Benzo(k)fluoranthene	207-08-9	2 / 13	15%	0.00096 - 0.0032	0.0003	2 / 13	15%	0.00096 - 0.0032	0.000	2 / 13	15%	0.00096 - 0.0032	0.000	2 / 13	15%	0.00096 - 0.0032	0.000	/	-	21.09622922	1.283424799				
Chrysene	218-01-9	7 / 13	54%	0.00051 - 0.005	0.001	7 / 13	54%	0.00051 - 0.005	0.001	7 / 13	54%	0.00051 - 0.005	0.001	7 / 13	54%	0.00051 - 0.005	0.001	/	-	210.9622922	12.83424799			0.166	
Dibenzo(a,h)anthracene	53-70-3	1 / 13	8%	0.00053 - 0.00053	4.077E-05	1 / 13	8%	0.00053 - 0.00053	4.07692E-05	1 / 13	8%	0.00053 - 0.00053	4.077E-05	1 / 13	8%	0.00053 - 0.00053	4.077E-05	/	-	0.210962292				0.033	
Dibenzofuran	132-64-9	2 / 13	15%	0.00022 - 0.00034	4.308E-05	2 / 13	15%	0.00022 - 0.00034	4.308E-05	2 / 13	15%	0.00022 - 0.00034	4.308E-05	2 / 13	15%	0.00022 - 0.00034	4.308E-05	/	-	1563.341949					
Fluoranthene	206-44-0	8 / 13	62%	0.00052 - 0.0089	0.001	8 / 13	62%	0.00052 - 0.0089	0.001	8 / 13	62%	0.00052 - 0.0089	0.001	8 / 13	62%	0.00052 - 0.0089	0.001	/	-	22000.35333				0.423	
Fluorene	86-73-7	3 / 13	23%	0.00034 - 0.00059	0.000	3 / 13	23%	0.00034 - 0.00059	0.000113077	3 / 13	23%	0.00034 - 0.00059	0.000	3 / 13	23%	0.00034 - 0.00059	0.000	/	-	26281.43345				0.019	
Indeno(1,2,3-c,d)pyrene	193-39-5	5 / 13	38%	0.00039 - 0.003	0.000	5 / 13	38%	0.00039 - 0.003	0.000	5 / 13	38%	0.00039 - 0.003	0.000	5 / 13	38%	0.00039 - 0.003	0.000	/	-	2.109622922					
Phenanthrene	85-01-8	8 / 13	62%	0.00068 - 0.0099	0.001	8 / 13	62%	0.00068 - 0.0099	0.001455385	8 / 13	62%	0.00068 - 0.0099	0.001	8 / 13	62%	0.00068 - 0.0099	0.001	/	-					0.204	
Pyrene	129-00-0	5 / 13	38%	0.00092 - 0.011	0.001	5 / 13	38%	0.00092 - 0.011	0.001	5 / 13	38%	0.00092 - 0.011	0.001	5 / 13	38%	0.00092 - 0.011	0.001	/	-	29126.2007				0.195	

TABLE B-15
PREVALENCE OF DETECTED CHEMICALS IN SOIL AND SEDIMENT - OFF-SITE AREAS
CASMALIA RESOURCES SUPERFUND SITE REMEDIAL INVESTIGATION

		All Depth Ranges					0 to 6 Inches					0 to 5 Feet					0 to 10 Feet					Greater than 10 Feet					Screening Levels					
Compound	CAS Number	Number of Detects	Number of Samples Collected	FOD[1]	Range of Detected Concentrations[2]	Average Detected Value	Number of Detects	Number of Samples Collected	FOD[1]	Range of Detected Concentrations[2]	Average Detected Value	Number of Detects	Number of Samples Collected	FOD[1]	Range of Detected Concentrations[2]	Average Detected Value	Number of Detects	Number of Samples Collected	FOD[1]	Range of Detected Concentrations[2]	Average Detected Value	Number of Detects	Number of Samples Collected	FOD[1]	Range of Detected Concentrations[2]	Average Detected Value	Industrial PRG	Industrial PRG (CA)	Residential PRG	Residential PRG (CA)	Lowest Ecological Screening Level	UTL[3]
PCBs (mg/kg)																																
Aroclor 1260	11096-82-5	1	/ 13	8%	0.0057 - 0.0057	0.000	1	/ 13	8%	0.0057 - 0.0057	0.000438462	1	/ 13	8%	0.0057 - 0.0057	0.000	1	/ 13	8%	0.0057 - 0.0057	0.000	/			-		0.74				0.0227	
Pesticides (mg/kg)																																
4,4'-DDD	72-54-8	6	/ 13	46%	0.0008 - 0.0025	0.001	6	/ 13	46%	0.0008 - 0.0025	0.000521538	6	/ 13	46%	0.0008 - 0.0025	0.001	6	/ 13	46%	0.0008 - 0.0025	0.001	/			-		9.951436525				0.002	
4,4'-DDE	72-55-9	9	/ 13	69%	0.00016 - 0.0022	0.001	9	/ 13	69%	0.00016 - 0.0022	0.00056	9	/ 13	69%	0.00016 - 0.0022	0.001	9	/ 13	69%	0.00016 - 0.0022	0.001	/			-		7.024543429				0.0022	
4,4'-DDT	50-29-3	3	/ 13	23%	0.00027 - 0.0011	0.000	3	/ 13	23%	0.00027 - 0.0011	0.000146923	3	/ 13	23%	0.00027 - 0.0011	0.000	3	/ 13	23%	0.00027 - 0.0011	0.000	/			-		7.02454474				0.001	
Aldrin	309-00-2	1	/ 13	8%	0.00053 - 0.00053	4.077E-05	1	/ 13	8%	0.00053 - 0.00053	4.07692E-05	1	/ 13	8%	0.00053 - 0.00053	4.077E-05	1	/ 13	8%	0.00053 - 0.00053	4.077E-05	/			-		0.101393895					
alpha-BHC	319-84-6	1	/ 13	8%	0.00051 - 0.00051	3.923E-05	1	/ 13	8%	0.00051 - 0.00051	3.92308E-05	1	/ 13	8%	0.00051 - 0.00051	3.923E-05	1	/ 13	8%	0.00051 - 0.00051	3.923E-05	/			-		0.369309823				0.00237	
beta-BHC	319-85-7	1	/ 13	8%	0.00099 - 0.00099	7.615E-05	1	/ 13	8%	0.00099 - 0.00099	7.61538E-05	1	/ 13	8%	0.00099 - 0.00099	7.615E-05	1	/ 13	8%	0.00099 - 0.00099	7.615E-05	/			-		1.257584379				0.00237	
Chlordane, alpha	5103-71-9	3	/ 13	23%	0.0002 - 0.00042	7.538E-05	3	/ 13	23%	0.0002 - 0.00042	7.53846E-05	3	/ 13	23%	0.0002 - 0.00042	7.538E-05	3	/ 13	23%	0.0002 - 0.00042	7.538E-05	/			-						0.0005	
Chlordane, gamma	12789-03-6	3	/ 13	23%	0.00021 - 0.00044	7.308E-05	3	/ 13	23%	0.00021 - 0.00044	7.30769E-05	3	/ 13	23%	0.00021 - 0.00044	7.308E-05	3	/ 13	23%	0.00021 - 0.00044	7.308E-05	/			-		6.5				0.0005	
delta-BHC	319-86-8	1	/ 13	8%	0.0012 - 0.0012	9.231E-05	1	/ 13	8%	0.0012 - 0.0012	9.23077E-05	1	/ 13	8%	0.0012 - 0.0012	9.231E-05	1	/ 13	8%	0.0012 - 0.0012	9.231E-05	/			-						0.00237	
Endosulfan I	959-98-8	3	/ 13	23%	0.00027 - 0.0012	0.000	3	/ 13	23%	0.00027 - 0.0012	0.000205385	3	/ 13	23%	0.00027 - 0.0012	0.000	3	/ 13	23%	0.00027 - 0.0012	0.000	/			-		3700					
Endosulfan II	33213-65-9	1	/ 13	8%	0.0011 - 0.0011	8.462E-05	1	/ 13	8%	0.0011 - 0.0011	8.46154E-05	1	/ 13	8%	0.0011 - 0.0011	8.462E-05	1	/ 13	8%	0.0011 - 0.0011	8.462E-05	/			-		3700					
Endosulfan sulfate	1031-07-8	3	/ 13	23%	0.00029 - 0.0012	0.000	3	/ 13	23%	0.00029 - 0.0012	0.000143846	3	/ 13	23%	0.00029 - 0.0012	0.000	3	/ 13	23%	0.00029 - 0.0012	0.000	/			-		3700					
Endrin aldehyde	7421-93-4	1	/ 13	8%	0.00044 - 0.00044	3.385E-05	1	/ 13	8%	0.00044 - 0.00044	3.38462E-05	1	/ 13	8%	0.00044 - 0.00044	3.385E-05	1	/ 13	8%	0.00044 - 0.00044	3.385E-05	/			-							
Endrin ketone	53494-70-5	1	/ 13	8%	0.00037 - 0.00037	2.846E-05	1	/ 13	8%	0.00037 - 0.00037	2.84615E-05	1	/ 13	8%	0.00037 - 0.00037	2.846E-05	1	/ 13	8%	0.00037 - 0.00037	2.846E-05	/			-							
gamma-BCH (Lindane)	58-89-9	1	/ 13	8%	0.0013 - 0.0013	0.000	1	/ 13	8%	0.0013 - 0.0013	0.0001	1	/ 13	8%	0.0013 - 0.0013	0.000	1	/ 13	8%	0.0013 - 0.0013	0.000	/			-		1.741270679				0.00237	
Heptachlor	76-44-8	4	/ 13	31%	0.00034 - 0.00063	0.000	4	/ 13	31%	0.00034 - 0.00063	0.000142308	4	/ 13	31%	0.00034 - 0.00063	0.000	4	/ 13	31%	0.00034 - 0.00063	0.000	/			-		0.383043525					
Hexachlorobenzene	118-74-1	4	/ 13	31%	0.00032 - 0.0013	0.000	4	/ 13	31%	0.00032 - 0.0013	0.000209231	4	/ 13	31%	0.00032 - 0.0013	0.000	4	/ 13	31%	0.00032 - 0.0013	0.000	/			-		1.077310393					
Methoxychlor	72-43-5	2	/ 13	15%	0.0015 - 0.0038	0.000	2	/ 13	15%	0.0015 - 0.0038	0.000407692	2	/ 13	15%	0.0015 - 0.0038	0.000	2	/ 13	15%	0.0015 - 0.0038	0.000	/			-		3078.031454					
Mirex	2385-85-5	1	/ 13	8%	0.00078 - 0.00078	0.000	1	/ 13	8%	0.00078 - 0.00078	0.00006	1	/ 13	8%	0.00078 - 0.00078	0.000	1	/ 13	8%	0.00078 - 0.00078	0.000	/			-		0.957609786					
Poor-Purge Organics (mg/kg)																																
Methyl ethyl ketone	78-93-3	2	/ 3	67%	0.01 - 0.024	0.011	2	/ 3	67%	0.01 - 0.024	0.011333333	2	/ 3	67%	0.01 - 0.024	0.011	2	/ 3	67%	0.01 - 0.024	0.011	/			-		113264.3883					
Methyl isobutyl ketone (MIBK)	108-10-1	1	/ 3	33%	0.0059 - 0.0059	0.002	1	/ 3	33%	0.0059 - 0.0059	0.001966667	1	/ 3	33%	0.0059 - 0.0059	0.002	1	/ 3	33%	0.0059 - 0.0059	0.002	/			-		47001.43388					
Dioxins and Furans (pg/g)																																
1,2,3,4,6,7,8-HpCDD	35822-46-9	3	/ 3	100%	3.671 - 24.416	11.329	3	/ 3	100%	3.671 - 24.416	11.329	3	/ 3	100%	3.671 - 24.416	11.329	3	/ 3	100%	3.671 - 24.416	11.329	/			-							
1,2,3,4,6,7,8-HpCDF	67562-39-4	2	/ 3	67%	0.742 - 3.29	1.344	2	/ 3	67%	0.742 - 3.29	1.344	2	/ 3	67%	0.742 - 3.29	1.344	2	/ 3	67%	0.742 - 3.29	1.344	/			-							
1,2,3,4,7,8-HxCDD	39227-28-6	1	/ 3	33%	0.449 - 0.449	0.150	1	/ 3	33%	0.449 - 0.449	0.150	1	/ 3	33%	0.449 - 0.449	0.150	1	/ 3	33%	0.449 - 0.449	0.150	/			-							
1,2,3,4,7,8-HxCDF	70648-26-9	2	/ 3	67%	0.129 - 0.261	0.13	2	/ 3	67%	0.129 - 0.261	0.13	2	/ 3	67%	0.129 - 0.261	0.13	2	/ 3	67%	0.129 - 0.261	0.13	/			-							
1,2,3,6,7,8-HxCDD	57653-85-7	2	/ 3	67%	0.632 - 2.32	0.984	2	/ 3	67%	0.632 - 2.32	0.984	2	/ 3	67%	0.632 - 2.32	0.984	2	/ 3	67%	0.632 - 2.32	0.984	/			-							
1,2,3,6,7,8-HxCDF	57117-44-9	2	/ 3	67%	0.135 - 0.297	0.144	2	/ 3	67%	0.135 - 0.297	0.144	2	/ 3	67%	0.135 - 0.297	0.144	2	/ 3	67%	0.135 - 0.297	0.144	/			-							
1,2,3,7,8,9-HxCDD	19408-74-3	3	/ 3	100%	0.637 - 3.076	1.624	3	/ 3	100%	0.637 - 3.076	1.624	3	/ 3	100%	0.637 - 3.076	1.624	3	/ 3	100%	0.637 - 3.076	1.624	/			-							
1,2,3,7,8,9-HxCDF	72918-21-9	2	/ 3	67%	0.21 - 1.318	0.509	2	/ 3	67%	0.21 - 1.318	0.509	2	/ 3	67%	0.21 - 1.318	0.509	2	/ 3	67%	0.21 - 1.318	0.509	/			-							
1,2,3,7,8-PeCDD	40321-76-4	2	/ 3	67%	0.099 - 0.434	0.178	2	/ 3	67%	0.099 - 0.434	0.178	2	/ 3	67%	0.099 - 0.434	0.178	2	/ 3	67%	0.099 - 0.434	0.178	/			-							
1,2,3,7,8-PeCDF	57117-41-6	1	/ 3	33%	0.166 - 0.166	0.055	1	/ 3	33%	0.166 - 0.166	0.055	1	/ 3	33%	0.166 - 0.166	0.055	1	/ 3	33%	0.166 - 0.166	0.055	/			-							
2,3,4,6,7,8-HxCDF	60851-34-5	1	/ 3	33%	0.293 - 0.293	0.098	1	/ 3	33%	0.293 - 0.293	0.098	1	/ 3	33%	0.293 - 0.293	0.098	1	/ 3	33%	0.293 - 0.293	0.098	/			-							
OCDD	3268-87-9	3	/ 3	100%	60.67 - 273.96	157.315	3	/ 3	100%	60.67 - 273.96	157.315	3	/ 3	100%	60.67 - 273.96	157.315	3	/ 3	100%	60.67 - 273.96	157.315	/			-							
OCDF	39001-02-0	2	/ 3	67%	1.839 - 6.619	2.819	2	/ 3	67%	1.839 - 6.619	2.819	2	/ 3	67%	1.839 - 6.619	2.819	2	/ 3	67%	1.839 - 6.619	2.819	/			-							
Total HpCDD	37871-00-4	3	/ 3	100%	4.284 - 54.768	24.422	3	/ 3	100%	4.284 - 54.768	24.422	3	/ 3	100%	4.284 - 54.768	24.422	3	/ 3	100%	4.284 - 54.768	24.422	/			-							
Total HpCDF	38998-75-3	2	/ 3	67%	1.776 - 6.317	2.698	2	/ 3	67%	1.776 - 6.317	2.698	2	/ 3	67%	1.776 - 6.317	2.698	2	/ 3	67%	1.776 - 6.317	2.698	/			-							
Total HxCDD	34465-46-8	2	/ 3	67%	3.555 - 12.883	5.479	2	/ 3	67%	3.555 - 12.883	5.479	2	/ 3	67%	3.555 - 12.883	5.479	2	/ 3	67%	3.555 - 12.883	5.479	/			-							
Total HxCDF	55684-94-1	2	/ 3	67%	0.511 - 4.554	1.688	2	/ 3	67%	0.511 - 4.554	1.688	2	/ 3	67%	0.511 - 4.554	1.688	2	/ 3	67%	0.511 - 4.554	1.688	/			-							
Total PeCDD	36088-22-9	1	/ 3	33%	0.589 - 0.589	0.196	1	/ 3	33%	0.589 - 0.589	0.196	1	/ 3	33%	0.589 - 0.589	0.196	1	/ 3	33%	0.589 - 0.589	0.196	/			-							
Total PeCDF	30402-15-4	2	/ 3	67%	0.37 - 1.551	0.640	2	/ 3	67%	0.37 - 1.551	0.640	2	/ 3	67%	0.37 - 1.551	0.640	2	/ 3	67%	0.37 - 1.551	0.640	/			-							
Total TCDF	55722-27-5	2	/ 3	67%	0.437 - 1.11	0.516	2	/ 3	67%	0.437 - 1.11	0.516	2	/ 3	67%	0.437 - 1.11	0.516	2	/ 3	67%	0.437 - 1.11	0.516	/			-							
Total TEQ	URS-TEQ-02	3	/ 3	100%	0.2270948 - 1.6016137	0.718	3	/ 3	100%	0.2270948 - 1.6016137	0.718	3	/ 3	100%	0.2270948 - 1.6016137	0.718	3	/ 3	100%	0.2270948 - 1.6016137	0.718	/			-		15.92229844					12

Notes:
[1] FOD = Percent Frequency of Detection
[2] Minimum value detected above MDL
[3] UTL = Upper Threshold Limit
g/g = grams/gram
mg/kg = milligrams/kilogram
pg/g = picograms/gram