Table G-11b. Detected Compounds in the PSCT Evaluation Wells, Upper HSU

April 2008

Final Remedial Investigation Report

Casmalia Resources Superfund Site

Casmalia, California

	Sample Date:	PZ-P18-5		PZ-P18-5		RG-1B		RG-4B		RG-5B		RG-5B		RG-6B	
	Sample Depth (feet):	04/22/08		04/22/08		04/17/08		04/15/08		04/23/08		04/23/08		04/17/08	
	Sample Number:	32177		32177		32141		32134		32195		32195		32148	
	Lab Batch:	0805180		4925		0805001		0804883		0805277		4926		0805001	
Test Method/Analyte Name	Units	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
E150.1															
pH	ph	6.76	A	NT		7.16	A	6.82	A	7.22	A	NT		6.8	A
E200.8															
Antimony-D	µg/l	ND(10.)	A/U	NT		ND(4.0)	A/U	ND(2.0)	A/U	ND(10.)	A/U	NT		ND(10.)	A/U
Antimony-T	µg/l	ND(20.)	A/U	NT		ND(4.0)	A/U	ND(2.0)	A/U	ND(10.)	A/U	NT		ND(10.)	A/U
Arsenic-D	µg/l	32.	A	NT		21.	A	16.	A	ND(10.)	A/U	NT		64.	A
Arsenic-T	µg/l	ND(20.)	A/U	NT		ND(4.0)	A/U	1.3	A/J	ND(10.)	A/U	NT		ND(10.)	A/U
Cadmium-D	µg/l	1.9	A/J	NT		2.5	A	13.	A	0.66	A/J	NT		3.5	A/J
Cadmium-T	µg/l	11.	A	NT		2.2	A	13.	A	0.63	A/J	NT		3.4	A/J
Lead-D	µg/l	ND(5.0)	A/U	NT		0.32	A/J	20.	A	0.23	A/J	NT		1.2	A/J
Lead-T	µg/l	ND(10.)	A/U	NT		0.50	A/J	0.23	A/J	0.41	A/J	NT		1.6	A/J
Selenium-D	µg/l	120.	A	NT		38.	A	42.	A	18.	A	NT		77.	A
Selenium-T	µg/l	7.3	A/J	NT		9.3	A	35.	A	18.	A	NT		29.	A
Silver-D	µg/l	ND(5.0)	A/U	NT		0.36	A/J	0.21	A/J	ND(5.0)	A/U	NT		ND(5.0)	A/U
Silver-T	µg/l	ND(10.)	A/U	NT		0.37	A/J	9.5	A	ND(5.0)	A/U	NT		ND(5.0)	A/U
Thallium-D	µg/l	0.79	A/J	NT		0.15	A/J	0.44	A/J	ND(5.0)	A/U	NT		0.61	A/J
Thallium-T	µg/l	0.55	A/J	NT		ND(2.0)	A/U	0.32	A/J	ND(5.0)	A/U	NT		ND(5.0)	A/U
Tin-D	µg/l	ND(5.0)	A/U	NT		0.26	A/J	0.19	A/J	ND(5.0)	A/U	NT		ND(5.0)	A/U
Tin-T	µg/l	ND(10.)	A/U	NT		ND(2.0)	A/U	0.26	A/J	ND(5.0)	A/U	NT		0.40	A/J
Zinc-D	µg/l	13.	A/J	NT		11.	A	37.	A	8.4	A/J	NT		29.	A
Zinc-T	µg/l	55.	A	NT		23.	A	30.	A	24.	A/J	NT		53.	A
E300.0															
Bromide	mg/l	79.	A	NT		32.	A	25.	A	6.9	A	NT		110.	A
Chloride	mg/l	4,000.	A	NT		1,900.	A	2,400.	A	1,400.	A	NT		3,000.	A
Fluoride	mg/l	4.2	A	NT		0.16	J/J	2.0	A	1.2	A	NT		ND(1.0)	UJ/U
Nitrate (as NO3)	mg/l	ND(8.8)	A/U	NT		6.8	A	770.	A	38.	A	NT		42.	A
Nitrate as N	mg/l	ND(2.0)	A/U	NT		1.5	A	170.	A	8.5	A	NT		9.6	A
Sulfate	mg/l	3,900.	A	NT		2,100.	A	3,800.	A	5,600.	A	NT		4,800.	A
EPA8081															
Endrin ketone	µg/l	ND(0.005)	A/U	NT		ND(0.005)	UJ/U	0.0075	A	ND(0.005)	A/U	NT		ND(0.005)	UJ/U
Endrin	µg/l	ND(0.005)	A/U	NT		ND(0.005)	A/U	0.015	A	ND(0.005)	A/U	NT		ND(0.005)	A/U
Hexachlorobenzene	µg/l	0.021	A	NT		ND(0.02)	A/U	ND(0.02)	A/U	ND(0.02)	A/U	NT		ND(0.02)	A/U
Lindane	µg/l	ND(0.005)	A/U	NT		ND(0.005)	A/U	0.015	A	ND(0.005)	A/U	NT		ND(0.005)	A/U
EPA8151															
2,4,5-TP (Silvex)	µg/l	ND(0.07)	A/U	NT		ND(0.07)	UJ/U	0.08	A	ND(0.07)	A/U	NT		ND(0.07)	UJ/U
2,4-D	µg/l	ND(0.40)	A/U	NT		ND(0.40)	A/U	0.34	A/J	ND(0.40)	A/U	NT		ND(0.40)	UJ/U
Dicamba	µg/l	ND(0.08)	A/U	NT		ND(0.08)	A/U	0.29	A	ND(0.08)	A/U	NT		ND(0.08)	UJ/U
Dichloroprop	µg/l	ND(0.50)	A/U	NT		ND(0.50)	A/U	2.3	A	ND(0.50)	A/U	NT		ND(0.50)	UJ/U
MCPA	µg/l	ND(10.)	A/U	NT		ND(10.)	UJ/U	59.	A	ND(10.)	A/U	NT		ND(10.)	UJ/U

Table G-11b. Detected Compounds in the PSCT Evaluation Wells, Upper HSU

April 2008

Final Remedial Investigation Report

Casmalia Resources Superfund Site

Casmalia, California

	Sample Date:	PZ-P18-5		PZ-P18-5	RG-1B		RG-4B		RG-5B		RG-5B	RG-6B	
	Sample Depth (feet):	04/22/08		04/22/08	04/17/08		04/15/08		04/23/08		04/23/08	04/17/08	
	Sample Number:	32177		32177	32141		32134		32195		32195	32148	
	Lab Batch:	0805180		4925	0805001		0804883		0805277		4926	0805001	
Test Method/Analyte Name	Units	Value	Qual	Value	Value	Qual	Value	Qual	Value	Qual	Value	Value	Qual
SM2320B													
Bicarbonate Alkalinity as CaCO3	mg/l	320.	A	NT	520.	A	760.	A	360.	A	NT	860.	A
SM2540C													
Total Dissolved Solids (TDS)	mg/l	12,000.	A	NT	6,800.	A	11,000.	A	11,000.	A	NT	13,000.	A
SW6010													
Aluminum-T	µg/l	890.	A	NT	ND(500.)	A/U	ND(500.)	A/U	ND(500.)	A/U	NT	ND(500.)	A/U
Barium-D	µg/l	14.	A/J	NT	ND(100.)	A/U	ND(100.)	A/U	ND(100.)	A/U	NT	ND(100.)	A/U
Barium-T	µg/l	20.	A/J	NT	ND(100.)	A/U	ND(100.)	A/U	ND(100.)	A/U	NT	ND(100.)	A/U
Calcium-D	mg/l	690.	A	NT	470.	A	670.	A	520.	A	NT	580.	A
Calcium-T	mg/l	680.	A	NT	480.	J	720.	A	480.	A	NT	600.	A
Chromium-D	µg/l	11.	A/J	NT	19.	A/J	16.	A/J	21.	A/J	NT	16.	A/J
Chromium-T	µg/l	18.	A/J	NT	ND(100.)	A/U	200.	A	ND(100.)	A/U	NT	ND(100.)	A/U
Cobalt-D	µg/l	34.	A/J	NT	ND(500.)	A/U	ND(500.)	A/U	ND(500.)	A/U	NT	ND(500.)	A/U
Cobalt-T	µg/l	33.	A/J	NT	ND(500.)	A/U	ND(500.)	A/U	ND(500.)	A/U	NT	ND(500.)	A/U
Copper-D	µg/l	ND(50.)	A/U	NT	ND(100.)	A/U	17.	A/J	ND(100.)	A/U	NT	ND(100.)	A/U
Copper-T	µg/l	ND(50.)	A/U	NT	20.	A/J	19.	A/J	ND(100.)	A/U	NT	19.	A/J
Iron-D	µg/l	63.	A/J	NT	ND(500.)	A/U	ND(500.)	A/U	ND(500.)	A/U	NT	ND(500.)	A/U
Iron-T	µg/l	1,000.	J	NT	ND(500.)	A/U	700.	A	ND(500.)	UJ/U	NT	ND(500.)	A/U
Magnesium-D	mg/l	820.	A	NT	350.	A	900.	A	900.	A	NT	1,100.	A
Magnesium-T	mg/l	810.	A	NT	370.	A	940.	A	820.	A	NT	1,100.	A
Manganese-D	µg/l	9,700.	A	NT	1,500.	A	2,500.	J+	ND(100.)	A/U	NT	460.	A
Manganese-T	µg/l	9,600.	A	NT	1,600.	A	2,700.	J	ND(100.)	A/U	NT	500.	A
Molybdenum-D	µg/l	43.	A/J	NT	33.	A/J	68.	A/J	48.	A/J	NT	67.	A/J
Molybdenum-T	µg/l	48.	A/J	NT	ND(500.)	A/U	82.	A/J	ND(500.)	A/U	NT	69.	A/J
Nickel-D	µg/l	480.	A	NT	41.	A/J	470.	A	62.	A/J	NT	130.	A
Nickel-T	µg/l	480.	A	NT	68.	A/J	520.	A	73.	A/J	NT	140.	A
Potassium-D	mg/l	53.	A	NT	23.	A	59.	A	45.	A	NT	42.	A
Potassium-T	mg/l	53.	A	NT	24.	A	62.	A	42.	A	NT	46.	A
Sodium-D	mg/l	2,100.	A	NT	1,100.	A	1,300.	A	1,500.	A	NT	1,700.	A
Sodium-T	mg/l	2,000.	A	NT	1,100.	A	1,400.	A	1,400.	A	NT	1,800.	A
SW7470													
Mercury-D	µg/l	ND(0.20)	A/U	NT	ND(0.20)	A/U	0.045	A/J	ND(0.20)	A/U	NT	ND(0.20)	A/U
Mercury-T	µg/l	ND(0.20)	A/U	NT	0.042	A/J	0.085	A/J	ND(0.20)	A/U	NT	ND(0.20)	A/U
SW8015M													
Diesel Range Organics (C12 - C24)	µg/l	NT		NT	97.	A/J	140.	A/J	ND(200.)	A/U	NT	ND(200.)	A/U

Table G-11b. Detected Compounds in the PSCT Evaluation Wells, Upper HSU

April 2008

Final Remedial Investigation Report

Casmalia Resources Superfund Site

Casmalia, California

	Sample Date:	PZ-P18-5		PZ-P18-5		RG-1B		RG-4B		RG-5B		RG-5B		RG-6B	
	Sample Depth (feet):	04/22/08		04/22/08		04/17/08		04/15/08		04/23/08		04/23/08		04/17/08	
	Sample Number:	32177		32177		32141		32134		32195		32195		32148	
	Lab Batch:	0805180		4925		0805001		0804883		0805277		4926		0805001	
Test Method/Analyte Name	Units	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
SW8260															
1,1 Dichloroethane	µg/l	2.1	A	NT		36.	A	2,400.	A	ND(0.50)	A/U	NT		20.	A
1,1 Dichloroethene	µg/l	1.8	A	NT		3.1	A	1,100.	A	ND(0.50)	A/U	NT		5.8	A
1,1,1 Trichloroethane	µg/l	ND(0.50)	A/U	NT		ND(0.50)	A/U	200.	A	ND(0.50)	A/U	NT		1.2	A
1,1,2 Trichloroethane	µg/l	ND(0.50)	A/U	NT		ND(0.50)	A/U	49.	A	ND(0.50)	A/U	NT		ND(0.50)	A/U
1,1-Dimethyl 1H-indene	µg/l	NT		NT		NT		NT		NT		NT		NT	
1,2 Dichloroethane	µg/l	ND(0.50)	A/U	NT		2.6	A	12.	A/J	ND(0.50)	A/U	NT		ND(0.50)	A/U
1,2 Dichloroethene	µg/l	1.3	A	NT		13.	A	6,300.	A/D	ND(1.0)	A/U	NT		190.	A
1,2 Dichloropropane	µg/l	ND(0.50)	A/U	NT		ND(0.50)	A/U	120.	A	ND(0.50)	A/U	NT		ND(0.50)	A/U
1,2,2,3-Tetramethyl-1,3-diaza-2-silacycl	µg/l	NT		NT		NT		NT		NT		NT		NT	
1,2-Dichlorobenzene	µg/l	1.3	A	NT		0.67	A	ND(25.)	A/U	ND(0.50)	A/U	NT		ND(0.50)	A/U
1,2-Dichlorotrifluoroethane	µg/l	8.4	A/N	NT		6.8	A/N	1,000.	A/N	4.8	A/N	NT		12.	A/N
1-ethenyl-2,3-dihydro 1H-Inden	µg/l	NT		NT		NT		NT		NT		NT		NT	
2-(Ethylthio)butane	µg/l	NT		NT		NT		NT		NT		NT		NT	
2-(Ethylthio)propane	µg/l	NT		NT		NT		NT		NT		NT		NT	
2,5-Dichloropyridine	µg/l	NT		NT		0.85	A/N	NT		NT		NT		NT	
2-chloro-1,1,1,2-tetrafluoroethane	µg/l	NT		NT		2.9	A/N	NT		NT		NT		NT	
Benzene	µg/l	ND(0.50)	A/U	NT		0.98	A	87.	A	ND(0.50)	A/U	NT		ND(0.50)	A/U
Chlorobenzene	µg/l	0.56	A	NT		0.58	A	ND(25.)	A/U	ND(0.50)	A/U	NT		ND(0.50)	A/U
Chloroethane	µg/l	ND(0.50)	A/U	NT		1.1	A	ND(25.)	A/U	ND(0.50)	A/U	NT		ND(0.50)	A/U
Chlorofluoromethane	µg/l	NT		NT		2.4	A/N	NT		NT		NT		NT	
Chloroform	µg/l	ND(0.50)	A/U	NT		0.41	A/J	ND(25.)	A/U	ND(0.50)	A/U	NT		ND(0.50)	A/U
Chlorotrifluoroethene	µg/l	ND(0.50)	A/U	NT		5.8	A	79.	A	ND(0.50)	A/U	NT		0.74	A
Cis 1,2 Dichloroethene	µg/l	1.3	A	NT		12.	A	6,300.	A/D	ND(0.50)	A/U	NT		180.	A
Dichlorofluoromethane	µg/l	NT		NT		NT		NT		NT		NT		NT	
Diisopropyl ether	µg/l	ND(0.50)	A/U	NT		ND(0.50)	A/U	ND(25.)	A/U	ND(0.50)	A/U	NT		ND(0.50)	A/U
Diisopropyl sulfide	µg/l	NT		NT		NT		NT		NT		NT		NT	
Ethyl ether	µg/l	NT		NT		170.	A/N	NT		NT		NT		NT	
Freon 11	µg/l	ND(0.50)	A/U	NT		ND(0.50)	A/U	ND(25.)	A/U	ND(0.50)	A/U	NT		0.38	A/J
Freon 112	µg/l	ND(0.50)	A/U	NT		ND(0.50)	A/U	ND(25.)	A/U	ND(0.50)	A/U	NT		2.8	A
Freon 113	µg/l	0.59	A	NT		2.3	A	2,100.	A	0.84	A	NT		21.	A
Freon 12	µg/l	ND(0.50)	A/U	NT		0.38	A/J	ND(25.)	A/U	ND(0.50)	A/U	NT		ND(0.50)	A/U
Methylcyclopentane	µg/l	ND(0.50)	A/U	NT		ND(0.50)	A/U	12.	A/J	ND(0.50)	A/U	NT		ND(0.50)	A/U
Methylene Chloride	µg/l	ND(1.0)	A/U	NT		1.3	A	ND(50.)	A/U	ND(1.0)	A/U	NT		ND(1.0)	A/U
Methyl-tert-butyl ether	µg/l	1.4	A	NT		ND(0.50)	A/U	ND(25.)	A/U	ND(0.50)	A/U	NT		ND(0.50)	A/U
Phosphorisocyanatidothioic difluoride	µg/l	NT		NT		NT		NT		NT		NT		NT	
sec-Butylisopropylsulfide	µg/l	NT		NT		NT		NT		NT		NT		NT	
tert-Amyl Alcohol	µg/l	NT		NT		48.	A/N	NT		NT		NT		NT	
Tetrachloroethene	µg/l	0.41	A/J	NT		0.60	A	950.	A	ND(0.50)	A/U	NT		8.1	A

Table G-11b. Detected Compounds in the PSCT Evaluation Wells, Upper HSU

April 2008

Final Remedial Investigation Report

Casmalia Resources Superfund Site

Casmalia, California

	Sample Date:	PZ-P18-5		PZ-P18-5		RG-1B		RG-4B		RG-5B		RG-5B		RG-6B	
	Sample Depth (feet):	04/22/08		04/22/08		04/17/08		04/15/08		04/23/08		04/23/08		04/17/08	
	Sample Number:	32177		32177		32141		32134		32195		32195		32148	
	Lab Batch:	0805180		4925		0805001		0804883		0805277		4926		0805001	
Test Method/Analyte Name	Units	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Tetrahydro-2,2,5,5-tetramethylfuran	µg/l	NT		NT		NT		NT		NT		NT		NT	
Tetrahydrofuran	µg/l	ND(20.)	A/U	NT		34.	A	ND(1,000.)	A/U	ND(20.)	A/U	NT		ND(20.)	A/U
trans 1,2 Dichloroethene	µg/l	ND(0.50)	A/U	NT		0.68	A	70.	A/D	ND(0.50)	A/U	NT		10.	A
Trichloroethene	µg/l	4.9	A	NT		3.9	A	5,000.	A/D	1.4	A	NT		9.5	A
Trifluoromethylbenzene	µg/l	ND(0.50)	A/U	NT		0.10	A/J	ND(25.)	A/U	ND(0.50)	A/U	NT		0.37	A/J
Vinyl Chloride	µg/l	ND(0.50)	A/U	NT		6.3	A	32.	A	ND(0.50)	A/U	NT		7.4	A
SW8270															
1,1-dioxide-tetrahydro-Thiophene	µg/l	NT		NT		NT		NT		NT		NT		NT	
1,2-Dichlorobenzene	µg/l	ND(2.0)	A/U	NT		ND(2.0)	A/U	ND(2.0)	A/U	ND(2.0)	A/U	NT		ND(2.0)	A/U
2,3-Dichloropyridine	µg/l	NT		NT		28.	A/N	NT		NT		NT		NT	
2,6-Dichloropyridine	µg/l	NT		NT		15.	A/N	NT		NT		NT		NT	
6-Chloro-2-pyridinecarboxylic acid	µg/l	NT		NT		28.	A/N	NT		NT		NT		NT	
bis(2-Ethylhexyl) phthalate	µg/l	3.1	A/J	NT		ND(4.0)	A/U	57.	A	1.3	A/J	NT		ND(4.0)	A/U
Cyclohexene 3-(tert-butyl)Peroxide	µg/l	7.7	A/N	NT		NT		NT		NT		NT		NT	
n-Hexadecanoic acid	µg/l	9.4	A/N	NT		NT		NT		NT		NT		NT	
N-Nitrosomorpholine	µg/l	0.80	A/J	NT		ND(10.)	A/U	7.9	A/J	ND(10.)	A/U	NT		ND(10.)	A/U
Octadecanoic acid	µg/l	18.	A/N	NT		NT		NT		NT		NT		NT	
Unknown Compound @5_27 Min_	µg/l	NT		NT		67.	A/N	NT		NT		NT		NT	
Unknown Compound @7_16 Min_	µg/l	NT		NT		NT		NT		NT		NT		NT	
SW8270C-SIM															
1,4-Dichlorobenzene	µg/l	0.58	A/J	NT		0.25	A	0.16	A	ND(0.10)	A/U	NT		0.011	A/J
Acenaphthylene	µg/l	ND(1.0)	A/U	NT		ND(0.10)	A/U	ND(0.10)	A/U	ND(0.10)	A/U	NT		ND(0.10)	A/U
Benzo(b)fluoranthene	µg/l	ND(1.0)	A/U	NT		ND(0.10)	A/U	ND(0.10)	A/U	0.067	J/J	NT		ND(0.10)	A/U
Fluorene	µg/l	ND(1.0)	A/U	NT		ND(0.10)	A/U	ND(0.10)	A/U	ND(0.10)	A/U	NT		ND(0.10)	A/U
Naphthalene	µg/l	ND(1.0)	A/U	NT		0.03	A/J	1.1	A	0.044	J/J	NT		ND(0.10)	A/U
N-Nitrosodiethylamine	µg/l	0.25	A/J	NT		0.92	A	8.3	A/D	ND(0.10)	A/U	NT		0.085	A/J
N-Nitrosodinpropylamine	µg/l	0.58	A/J	NT		0.63	A	0.57	A	0.37	J	NT		0.59	A
N-Nitrosomethylethylamine	µg/l	ND(1.0)	A/U	NT		0.59	A	0.041	A/J	ND(0.10)	A/U	NT		ND(0.10)	A/U
n-Nitrosopyrrolidine	µg/l	2.2	A	NT		0.039	A/J	0.89	A	ND(0.10)	A/U	NT		ND(0.10)	A/U
Pentachloronitrobenzene	µg/l	ND(1.0)	A/U	NT		ND(0.10)	A/U	0.039	A/J	ND(0.10)	A/U	NT		ND(0.10)	A/U
Pyrene	µg/l	ND(1.0)	A/U	NT		ND(0.10)	A/U	ND(0.10)	A/U	3.3	J	NT		ND(0.10)	A/U
SW8290															
OCDD	pg/l	NT		14.8	A/J	NT		NT		NT		ND(4.72)	A/U	NT	
SW9012															
Cyanide (Free)	mg/l	ND(0.005)	A/U	NT		ND(0.005)	A/U	0.0069	A	ND(0.005)	A/U	NT		ND(0.005)	A/U
Cyanide Amenable to Chlorination	mg/l	ND(0.005)	A/U	NT		ND(0.005)	A/U	0.0064	A	ND(0.005)	A/U	NT		ND(0.005)	A/U

Table G-11b. Detected Compounds in the PSCT Evaluation Wells, Upper HSU

April 2008

Final Remedial Investigation Report

Casmalia Resources Superfund Site

Casmalia, California

	Sample Date:	RG-6B		RG-7B		RG-7B		RIMW-1		RIMW-1		RIMW-1 (Duplicate)		RIMW-1 (Duplicate)	
	Sample Depth (feet):	04/17/08		04/17/08		04/17/08		04/21/08		04/21/08		04/21/08		04/21/08	
	Sample Number:	32148		32147		32147		32171		32171		32173		32173	
	Lab Batch:	4916		0805001		4916		0805120		4925		0805120		4925	
Test Method/Analyte Name	Units	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
E150.1															
pH	ph	NT		**6.65**	**A**	NT		**6.93**	**A**	NT		**6.87**	**A**	NT	
E200.8															
Antimony-D	µg/l	NT		ND(10.)	A/U	NT		ND(40.)	A/U	NT		**12.**	**A**	NT	
Antimony-T	µg/l	NT		ND(10.)	A/U	NT		ND(10.)	A/U	NT		ND(10.)	A/U	NT	
Arsenic-D	µg/l	NT		**150.**	**A**	NT		**22.**	**A/J**	NT		**18.**	**A**	NT	
Arsenic-T	µg/l	NT		**5.3**	**A/J**	NT		**4.2**	**A/J**	NT		ND(10.)	A/U	NT	
Cadmium-D	µg/l	NT		**110.**	**A**	NT		ND(20.)	A/U	NT		**0.16**	**A/J**	NT	
Cadmium-T	µg/l	NT		**110.**	**A**	NT		**0.34**	**A/J**	NT		**0.30**	**A/J**	NT	
Lead-D	µg/l	NT		**0.56**	**A/J**	NT		**0.44**	**A/J**	NT		**0.50**	**A/J**	NT	
Lead-T	µg/l	NT		**1.2**	**A/J**	NT		ND(5.0)	A/U	NT		ND(5.0)	A/U	NT	
Selenium-D	µg/l	NT		**220.**	**A**	NT		**60.**	**A**	NT		**70.**	**A**	NT	
Selenium-T	µg/l	NT		**19.**	**A**	NT		**13.**	**A**	NT		ND(10.)	A/U	NT	
Silver-D	µg/l	NT		ND(5.0)	A/U	NT		ND(20.)	A/U	NT		ND(5.0)	A/U	NT	
Silver-T	µg/l	NT		ND(5.0)	A/U	NT		ND(5.0)	A/U	NT		ND(5.0)	A/U	NT	
Thallium-D	µg/l	NT		ND(5.0)	A/U	NT		**1.9**	**A/J**	NT		**0.52**	**A/J**	NT	
Thallium-T	µg/l	NT		ND(5.0)	A/U	NT		ND(5.0)	A/U	NT		ND(5.0)	A/U	NT	
Tin-D	µg/l	NT		ND(5.0)	A/U	NT		ND(20.)	A/U	NT		**5.6**	**A**	NT	
Tin-T	µg/l	NT		ND(5.0)	A/U	NT		ND(5.0)	A/U	NT		ND(5.0)	A/U	NT	
Zinc-D	µg/l	NT		**16.**	**A/J**	NT		**54.**	**A/J**	NT		**24.**	**A/J**	NT	
Zinc-T	µg/l	NT		**59.**	**A**	NT		**42.**	**A**	NT		**46.**	**A**	NT	
E300.0															
Bromide	mg/l	NT		**260.**	**A**	NT		**52.**	**A**	NT		**52.**	**A**	NT	
Chloride	mg/l	NT		**4,900.**	**A**	NT		**2,800.**	**A**	NT		**2,900.**	**A**	NT	
Fluoride	mg/l	NT		ND(1.0)	UJ/U	NT		ND(1.0)	A/U	NT		**0.66**	**A/J**	NT	
Nitrate (as NO3)	mg/l	NT		ND(8.8)	A/U	NT		ND(8.8)	A/U	NT		ND(8.8)	A/U	NT	
Nitrate as N	mg/l	NT		ND(2.0)	A/U	NT		ND(2.0)	A/U	NT		ND(2.0)	A/U	NT	
Sulfate	mg/l	NT		**2,700.**	**A**	NT		**5,500.**	**A**	NT		**5,500.**	**A**	NT	
EPA8081															
Endrin ketone	µg/l	NT		ND(0.005)	UJ/U	NT		ND(0.005)	A/U	NT		ND(0.005)	A/U	NT	
Endrin	µg/l	NT		ND(0.005)	A/U	NT		ND(0.005)	A/U	NT		ND(0.005)	A/U	NT	
Hexachlorobenzene	µg/l	NT		ND(0.02)	A/U	NT		ND(0.02)	A/U	NT		ND(0.02)	A/U	NT	
Lindane	µg/l	NT		ND(0.005)	A/U	NT		ND(0.005)	A/U	NT		ND(0.005)	A/U	NT	
EPA8151															
2,4,5-TP (Silvex)	µg/l	NT		ND(0.07)	UJ/U	NT		ND(0.07)	UJ/U	NT		ND(0.07)	UJ/U	NT	
2,4-D	µg/l	NT		ND(0.40)	A/U	NT		ND(0.40)	A/U	NT		ND(0.40)	A/U	NT	
Dicamba	µg/l	NT		ND(0.08)	A/U	NT		ND(0.08)	A/U	NT		ND(0.08)	A/U	NT	
Dichloroprop	µg/l	NT		ND(0.50)	A/U	NT		ND(0.50)	A/U	NT		ND(0.50)	A/U	NT	
MCPA	µg/l	NT		ND(10.)	UJ/U	NT		ND(10.)	A/U	NT		ND(10.)	A/U	NT	

Table G-11b. Detected Compounds in the PSCT Evaluation Wells, Upper HSU

April 2008

Final Remedial Investigation Report

Casmalia Resources Superfund Site

Casmalia, California

	Sample Date:	RG-6B		RG-7B		RG-7B		RIMW-1		RIMW-1		RIMW-1 (Duplicate)		RIMW-1 (Duplicate)	
	Sample Depth (feet):	04/17/08		04/17/08		04/17/08		04/21/08		04/21/08		04/21/08		04/21/08	
	Sample Number:	32148		32147		32147		32171		32171		32173		32173	
	Lab Batch:	4916		0805001		4916		0805120		4925		0805120		4925	
Test Method/Analyte Name	Units	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
SM2320B															
Bicarbonate Alkalinity as CaCO3	mg/l	NT		590.	A	NT		650.	A	NT		660.	A	NT	
SM2540C															
Total Dissolved Solids (TDS)	mg/l	NT		14,000.	A	NT		13,000.	A	NT		12,000.	A	NT	
SW6010															
Aluminum-T	µg/l	NT		ND(500.)	A/U	NT		ND(500.)	A/U	NT		ND(500.)	A/U	NT	
Barium-D	µg/l	NT		21.	A/J	NT		ND(100.)	A/U	NT		ND(100.)	A/U	NT	
Barium-T	µg/l	NT		25.	A/J	NT		ND(100.)	A/U	NT		ND(100.)	A/U	NT	
Calcium-D	mg/l	NT		800.	A	NT		600.	A	NT		590.	A	NT	
Calcium-T	mg/l	NT		830.	J	NT		520.	A	NT		550.	A	NT	
Chromium-D	µg/l	NT		20.	A/J	NT		17.	A/J	NT		19.	A/J	NT	
Chromium-T	µg/l	NT		30.	A/J	NT		ND(100.)	A/U	NT		ND(100.)	A/U	NT	
Cobalt-D	µg/l	NT		ND(500.)	A/U	NT		ND(500.)	A/U	NT		ND(500.)	A/U	NT	
Cobalt-T	µg/l	NT		ND(500.)	A/U	NT		ND(500.)	A/U	NT		ND(500.)	A/U	NT	
Copper-D	µg/l	NT		ND(100.)	A/U	NT		ND(100.)	A/U	NT		ND(100.)	A/U	NT	
Copper-T	µg/l	NT		22.	A/J	NT		ND(100.)	A/U	NT		ND(100.)	A/U	NT	
Iron-D	µg/l	NT		ND(500.)	A/U	NT		220.	A/J	NT		280.	A/J	NT	
Iron-T	µg/l	NT		ND(500.)	A/U	NT		ND(500.)	A/U	NT		ND(500.)	A/U	NT	
Magnesium-D	mg/l	NT		550.	A	NT		1,200.	A	NT		1,200.	A	NT	
Magnesium-T	mg/l	NT		560.	A	NT		1,000.	A	NT		1,100.	A	NT	
Manganese-D	µg/l	NT		11,000.	A	NT		590.	A	NT		610.	A	NT	
Manganese-T	µg/l	NT		12,000.	A	NT		510.	A	NT		530.	A	NT	
Molybdenum-D	µg/l	NT		71.	A/J	NT		76.	A/J	NT		58.	A/J	NT	
Molybdenum-T	µg/l	NT		82.	A/J	NT		ND(500.)	A/U	NT		ND(500.)	A/U	NT	
Nickel-D	µg/l	NT		240.	A	NT		110.	A	NT		110.	A	NT	
Nickel-T	µg/l	NT		270.	A	NT		96.	A/J	NT		100.	A	NT	
Potassium-D	mg/l	NT		24.	A	NT		67.	A	NT		68.	A	NT	
Potassium-T	mg/l	NT		25.	A	NT		59.	A	NT		63.	A	NT	
Sodium-D	mg/l	NT		2,400.	A	NT		1,800.	A	NT		1,800.	A	NT	
Sodium-T	mg/l	NT		2,500.	A	NT		1,600.	A	NT		1,600.	A	NT	
SW7470															
Mercury-D	µg/l	NT		ND(0.20)	A/U	NT		0.028	A/J	NT		ND(0.20)	A/U	NT	
Mercury-T	µg/l	NT		0.032	A/J	NT		0.05	A/J	NT		ND(0.20)	A/U	NT	
SW8015M															
Diesel Range Organics (C12 - C24)	µg/l	NT		1,100.	A	NT		NT		NT		NT		NT	

Table G-11b. Detected Compounds in the PSCT Evaluation Wells, Upper HSU

April 2008

Final Remedial Investigation Report

Casmalia Resources Superfund Site

Casmalia, California

	Sample Date:	**RG-6B**	**RG-7B**	**RG-7B**	**RIMW-1**	**RIMW-1**	**RIMW-1 (Duplicate)**	**RIMW-1 (Duplicate)**
	Sample Depth (feet):	**04/17/08**	**04/17/08**	**04/17/08**	**04/21/08**	**04/21/08**	**04/21/08**	**04/21/08**
	Sample Number:	**32148**	**32147**	**32147**	**32171**	**32171**	**32173**	**32173**
	Lab Batch:	**4916**	**0805001**	**4916**	**0805120**	**4925**	**0805120**	**4925**
Test Method/Analyte Name	Units	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual
SW8260								
1,1 Dichloroethane	µg/l	NT	**87. A**	NT	**0.45 A/J**	NT	**0.45 A/J**	NT
1,1 Dichloroethene	µg/l	NT	**18. A**	NT	ND(0.50) A/U	NT	ND(0.50) A/U	NT
1,1,1 Trichloroethane	µg/l	NT	**2.1 A**	NT	ND(0.50) A/U	NT	ND(0.50) A/U	NT
1,1,2 Trichloroethane	µg/l	NT	ND(0.50) A/U	NT	ND(0.50) A/U	NT	ND(0.50) A/U	NT
1,1-Dimethyl 1H-indene	µg/l	NT	NT	NT	NT	NT	NT	NT
1,2 Dichloroethane	µg/l	NT	**4.6 A**	NT	ND(0.50) A/U	NT	**0.28 A/J**	NT
1,2 Dichloroethene	µg/l	NT	**27. A**	NT	ND(1.0) A/U	NT	ND(1.0) A/U	NT
1,2 Dichloropropane	µg/l	NT	**0.67 A**	NT	ND(0.50) A/U	NT	ND(0.50) A/U	NT
1,2,2,3-Tetramethyl-1,3-diaza-2-silacycl	µg/l	NT	**1.0 A/N**	NT	NT	NT	NT	NT
1,2-Dichlorobenzene	µg/l	NT	**1.4 A**	NT	ND(0.50) A/U	NT	ND(0.50) A/U	NT
1,2-Dichlorotrifluoroethane	µg/l	NT	**15. A/N**	NT	**6.0 A/N**	NT	**5.8 A/N**	NT
1-ethenyl-2,3-dihydro 1H-Inden	µg/l	NT	**33. A/N**	NT	NT	NT	NT	NT
2-(Ethylthio)butane	µg/l	NT	**1.3 A/N**	NT	NT	NT	NT	NT
2-(Ethylthio)propane	µg/l	NT	**8.0 A/N**	NT	NT	NT	NT	NT
2,5-Dichloropyridine	µg/l	NT	NT	NT	NT	NT	NT	NT
2-chloro-1,1,1,2-tetrafluoroethane	µg/l	NT	NT	NT	NT	NT	NT	NT
Benzene	µg/l	NT	**1.4 A**	NT	ND(0.50) A/U	NT	ND(0.50) A/U	NT
Chlorobenzene	µg/l	NT	ND(0.50) A/U	NT	ND(0.50) A/U	NT	ND(0.50) A/U	NT
Chloroethane	µg/l	NT	ND(0.50) A/U	NT	ND(0.50) A/U	NT	ND(0.50) A/U	NT
Chlorofluoromethane	µg/l	NT	NT	NT	NT	NT	NT	NT
Chloroform	µg/l	NT	**11. A**	NT	ND(0.50) A/U	NT	ND(0.50) A/U	NT
Chlorotrifluoroethene	µg/l	NT	**0.18 A/J**	NT	ND(0.50) A/U	NT	ND(0.50) UJ/U	NT
Cis 1,2 Dichloroethene	µg/l	NT	**26. A**	NT	ND(0.50) A/U	NT	ND(0.50) A/U	NT
Dichlorofluoromethane	µg/l	NT	**4.0 A/N**	NT	NT	NT	NT	NT
Diisopropyl ether	µg/l	NT	**0.39 A/J**	NT	ND(0.50) A/U	NT	ND(0.50) A/U	NT
Diisopropyl sulfide	µg/l	NT	**17. A/N**	NT	NT	NT	NT	NT
Ethyl ether	µg/l	NT	**16. A/N**	NT	**8.1 A/N**	NT	**7.9 A/N**	NT
Freon 11	µg/l	NT	**0.56 A**	NT	ND(0.50) A/U	NT	ND(0.50) A/U	NT
Freon 112	µg/l	NT	**0.33 A/J**	NT	ND(0.50) A/U	NT	ND(0.50) A/U	NT
Freon 113	µg/l	NT	**18. A**	NT	ND(0.50) A/U	NT	ND(0.50) A/U	NT
Freon 12	µg/l	NT	ND(0.50) A/U	NT	ND(0.50) A/U	NT	ND(0.50) A/U	NT
Methylcyclopentane	µg/l	NT	ND(0.50) A/U	NT	ND(0.50) A/U	NT	ND(0.50) A/U	NT
Methylene Chloride	µg/l	NT	ND(1.0) A/U	NT	ND(1.0) A/U	NT	ND(1.0) A/U	NT
Methyl-tert-butyl ether	µg/l	NT	ND(0.50) A/U	NT	ND(0.50) A/U	NT	ND(0.50) A/U	NT
Phosphorisocyanatidothioic difluoride	µg/l	NT	NT	NT	NT	NT	NT	NT
sec-Butylisopropylsulfide	µg/l	NT	**2.9 A/N**	NT	NT	NT	NT	NT
tert-Amyl Alcohol	µg/l	NT	NT	NT	NT	NT	NT	NT
Tetrachloroethene	µg/l	NT	**6.6 A**	NT	ND(0.50) A/U	NT	ND(0.50) A/U	NT

Table G-11b. Detected Compounds in the PSCT Evaluation Wells, Upper HSU
April 2008
Final Remedial Investigation Report
Casmalia Resources Superfund Site
Casmalia, California

	Sample Date:	RG-6B		RG-7B		RG-7B		RIMW-1		RIMW-1		RIMW-1 (Duplicate)		RIMW-1 (Duplicate)	
	Sample Depth (feet):	04/17/08		04/17/08		04/17/08		04/21/08		04/21/08		04/21/08		04/21/08	
	Sample Number:	32148		32147		32147		32171		32171		32173		32173	
	Lab Batch:	4916		0805001		4916		0805120		4925		0805120		4925	
Test Method/Analyte Name	Units	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Tetrahydro-2,2,5,5-tetramethylfuran	µg/l	NT		**19.**	**A/N**	NT		NT		NT		NT		NT	
Tetrahydrofuran	µg/l	NT		**16.**	**A/J**	NT		ND(20.)	A/U	NT		ND(20.)	A/U	NT	
trans 1,2 Dichloroethene	µg/l	NT		**1.0**	**A**	NT		ND(0.50)	A/U	NT		ND(0.50)	A/U	NT	
Trichloroethene	µg/l	NT		**49.**	**A**	NT		ND(0.50)	A/U	NT		ND(0.50)	A/U	NT	
Trifluoromethylbenzene	µg/l	NT		**0.21**	**A/J**	NT		ND(0.50)	A/U	NT		ND(0.50)	A/U	NT	
Vinyl Chloride	µg/l	NT		**6.6**	**A**	NT		ND(0.50)	A/U	NT		ND(0.50)	A/U	NT	
SW8270															
1,1-dioxide-tetrahydro-Thiophene	µg/l	NT		**130.**	**A/N**	NT		NT		NT		NT		NT	
1,2-Dichlorobenzene	µg/l	NT		**1.0**	**A/J**	NT		ND(2.0)	A/U	NT		ND(2.0)	A/U	NT	
2,3-Dichloropyridine	µg/l	NT		NT		NT		NT		NT		NT		NT	
2,6-Dichloropyridine	µg/l	NT		NT		NT		NT		NT		NT		NT	
6-Chloro-2-pyridinecarboxylic acid	µg/l	NT		NT		NT		NT		NT		NT		NT	
bis(2-Ethylhexyl) phthalate	µg/l	NT		ND(4.0)	A/U	NT		ND(4.0)	A/U	NT		ND(4.0)	A/U	NT	
Cyclohexene 3-(tert-butyl)Peroxide	µg/l	NT		NT		NT		NT		NT		NT		NT	
n-Hexadecanoic acid	µg/l	NT		NT		NT		NT		NT		NT		NT	
N-Nitrosomorpholine	µg/l	NT		ND(10.)	A/U	NT		ND(10.)	A/U	NT		ND(10.)	A/U	NT	
Octadecanoic acid	µg/l	NT		NT		NT		NT		NT		NT		NT	
Unknown Compound @5_27 Min_	µg/l	NT		NT		NT		NT		NT		NT		NT	
Unknown Compound @7_16 Min_	µg/l	NT		**29.**	**A/N**	NT		NT		NT		NT		NT	
SW8270C-SIM															
1,4-Dichlorobenzene	µg/l	NT		**0.35**	**A**	NT		ND(0.10)	A/U	NT		ND(0.10)	A/U	NT	
Acenaphthylene	µg/l	NT		**0.072**	**A/J**	NT		ND(0.10)	A/U	NT		ND(0.10)	A/U	NT	
Benzo(b)fluoranthene	µg/l	NT		ND(0.10)	A/U	NT		ND(0.10)	A/U	NT		ND(0.10)	A/U	NT	
Fluorene	µg/l	NT		**0.092**	**A/J**	NT		ND(0.10)	A/U	NT		ND(0.10)	A/U	NT	
Naphthalene	µg/l	NT		**0.051**	**A/J**	NT		ND(0.10)	A/U	NT		ND(0.10)	A/U	NT	
N-Nitrosodiethylamine	µg/l	NT		**0.091**	**A/J**	NT		ND(0.10)	A/U	NT		ND(0.10)	A/U	NT	
N-Nitrosodinpropylamine	µg/l	NT		**0.73**	**A**	NT		ND(0.74)	U	NT		ND(0.65)	U	NT	
N-Nitrosomethylethylamine	µg/l	NT		**0.36**	**A**	NT		ND(0.10)	A/U	NT		ND(0.10)	A/U	NT	
n-Nitrosopyrrolidine	µg/l	NT		**0.041**	**A/J**	NT		ND(0.10)	A/U	NT		ND(0.10)	A/U	NT	
Pentachloronitrobenzene	µg/l	NT		ND(0.10)	A/U	NT		ND(0.10)	A/U	NT		ND(0.10)	A/U	NT	
Pyrene	µg/l	NT		ND(0.10)	A/U	NT		ND(0.10)	A/U	NT		ND(0.10)	A/U	NT	
SW8290															
OCDD	pg/l	ND(2.48)	A/U	NT		ND(2.69)	A/U	NT		ND(5.22)	A/U	NT		ND(3.42)	A/U
SW9012															
Cyanide (Free)	mg/l	NT		ND(0.005)	A/U	NT		ND(0.01)	A/U	NT		ND(0.01)	A/U	NT	
Cyanide Amenable to Chlorination	mg/l	NT		ND(0.005)	A/U	NT		ND(0.005)	A/U	NT		ND(0.005)	A/U	NT	

Table G-11b. Detected Compounds in the PSCT Evaluation Wells, Upper HSU

April 2008

Final Remedial Investigation Report

Casmalia Resources Superfund Site

Casmalia, California

	Sample Date:	RIMW-2		RIMW-2		RIMW-5		SW-29		SW-29		WP-3S	
	Sample Depth (feet):	04/17/08		04/17/08		04/18/08		04/23/08		04/23/08		04/18/08	
	Sample Number:	32143		32143		32150		32189		32189		32159	
	Lab Batch:	0805001		4916		0805053		0805277		4925		0805053	
Test Method/Analyte Name	Units	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
E150.1													
pH	ph	6.93	A	NT		NT		7.02	A	NT		NT	
E200.8													
Antimony-D	µg/l	ND(10.)	A/U	NT		NT		ND(10.)	A/U	NT		ND(4.0)	A/U
Antimony-T	µg/l	ND(10.)	A/U	NT		NT		ND(10.)	A/U	NT		0.66	A/J
Arsenic-D	µg/l	110.	A	NT		NT		ND(10.)	A/U	NT		ND(4.0)	A/U
Arsenic-T	µg/l	ND(10.)	A/U	NT		NT		ND(10.)	A/U	NT		3.2	A
Cadmium-D	µg/l	22.	A	NT		NT		0.25	A/J	NT		3.5	A
Cadmium-T	µg/l	22.	A	NT		NT		0.48	A/J	NT		2,200.	A
Lead-D	µg/l	1.0	A/J	NT		NT		ND(5.0)	A/U	NT		ND(2.0)	A/U
Lead-T	µg/l	1.2	A/J	NT		NT		0.48	A/J	NT		10.	A
Selenium-D	µg/l	160.	A	NT		NT		55.	A	NT		4.0	A
Selenium-T	µg/l	8.1	A/J	NT		NT		54.	A	NT		4.0	A
Silver-D	µg/l	0.46	A/J	NT		NT		ND(5.0)	A/U	NT		ND(2.0)	A/U
Silver-T	µg/l	0.69	A/J	NT		NT		ND(5.0)	A/U	NT		ND(2.0)	A/U
Thallium-D	µg/l	ND(5.0)	A/U	NT		NT		ND(5.0)	A/U	NT		ND(2.0)	A/U
Thallium-T	µg/l	ND(5.0)	A/U	NT		NT		ND(5.0)	A/U	NT		ND(1.0)	A/U
Tin-D	µg/l	ND(5.0)	A/U	NT		NT		ND(5.0)	A/U	NT		0.64	A/J
Tin-T	µg/l	0.20	A/J	NT		NT		ND(5.0)	A/U	NT		2.3	A
Zinc-D	µg/l	9.2	A/J	NT		NT		11.	A/J	NT		1,500.	A
Zinc-T	µg/l	50.	A	NT		NT		30.	A	NT		51,000.	A
E300.0													
Bromide	mg/l	170.	A	NT		NT		8.9	A	NT		NT	
Chloride	mg/l	3,900.	A	NT		NT		1,400.	A	NT		NT	
Fluoride	mg/l	ND(1.0)	UJ/U	NT		NT		ND(1.0)	A/U	NT		NT	
Nitrate (as NO3)	mg/l	ND(8.8)	A/U	NT		NT		13.	A	NT		NT	
Nitrate as N	mg/l	ND(2.0)	A/U	NT		NT		2.9	A	NT		NT	
Sulfate	mg/l	3,100.	A	NT		NT		5,900.	A	NT		NT	
EPA8081													
Endrin ketone	µg/l	ND(0.005)	UJ/U	NT		NT		ND(0.005)	A/U	NT		NT	
Endrin	µg/l	ND(0.005)	A/U	NT		NT		ND(0.005)	A/U	NT		NT	
Hexachlorobenzene	µg/l	ND(0.02)	A/U	NT		NT		ND(0.02)	A/U	NT		NT	
Lindane	µg/l	ND(0.005)	A/U	NT		NT		ND(0.005)	A/U	NT		NT	
EPA8151													
2,4,5-TP (Silvex)	µg/l	ND(0.07)	UJ/U	NT		NT		ND(0.07)	A/U	NT		ND(0.07)	UJ/U
2,4-D	µg/l	ND(0.40)	A/U	NT		NT		ND(0.40)	A/U	NT		ND(0.40)	A/U
Dicamba	µg/l	ND(0.08)	A/U	NT		NT		ND(0.08)	A/U	NT		ND(0.08)	A/U
Dichloroprop	µg/l	ND(0.50)	A/U	NT		NT		ND(0.50)	A/U	NT		ND(0.50)	A/U
MCPA	µg/l	ND(10.)	UJ/U	NT		NT		ND(10.)	A/U	NT		ND(10.)	A/U

Table G-11b. Detected Compounds in the PSCT Evaluation Wells, Upper HSU

April 2008

Final Remedial Investigation Report

Casmalia Resources Superfund Site

Casmalia, California

	Sample Date:	**RIMW-2**		**RIMW-2**		**RIMW-5**	**SW-29**		**SW-29**		**WP-3S**
	Sample Depth (feet):	**04/17/08**		**04/17/08**		**04/18/08**	**04/23/08**		**04/23/08**		**04/18/08**
	Sample Number:	**32143**		**32143**		**32150**	**32189**		**32189**		**32159**
	Lab Batch:	**0805001**		**4916**		**0805053**	**0805277**		**4925**		**0805053**
Test Method/Analyte Name	Units	Value	Qual	Value	Qual	Value Qual	Value	Qual	Value	Qual	Value Qual
SM2320B											
Bicarbonate Alkalinity as CaCO3	mg/l	**580.**	**A**	NT		NT	**540.**	**A**	NT		NT
SM2540C											
Total Dissolved Solids (TDS)	mg/l	**12,000.**	**A**	NT		NT	**11,000.**	**A**	NT		NT
SW6010											
Aluminum-T	µg/l	ND(500.)	A/U	NT		NT	ND(500.)	A/U	NT		**300.** **A/J**
Barium-D	µg/l	**41.**	**A/J**	NT		NT	ND(100.)	A/U	NT		ND(100.) A/U
Barium-T	µg/l	ND(100.)	A/U	NT		NT	ND(100.)	A/U	NT		**41.** **A/J**
Calcium-D	mg/l	**760.**	**A**	NT		NT	**540.**	**A**	NT		**580.** **A**
Calcium-T	mg/l	**730.**	**J**	NT		NT	**510.**	**A**	NT		**640.** **A**
Chromium-D	µg/l	**11.**	**A/J**	NT		NT	**18.**	**A/J**	NT		**12.** **A/J**
Chromium-T	µg/l	ND(100.)	A/U	NT		NT	**25.**	**A/J**	NT		**26.** **A/J**
Cobalt-D	µg/l	ND(500.)	A/U	NT		NT	ND(500.)	A/U	NT		ND(500.) A/U
Cobalt-T	µg/l	ND(500.)	A/U	NT		NT	ND(500.)	A/U	NT		ND(500.) A/U
Copper-D	µg/l	**19.**	**A/J**	NT		NT	ND(100.)	A/U	NT		ND(100.) A/U
Copper-T	µg/l	**27.**	**A/J**	NT		NT	ND(100.)	A/U	NT		**47.** **A/J**
Iron-D	µg/l	ND(500.)	A/U	NT		NT	**190.**	**A/J**	NT		**3,600.** **A**
Iron-T	µg/l	ND(500.)	A/U	NT		NT	**490.**	**J/J**	NT		**43,000.** **J**
Magnesium-D	mg/l	**460.**	**A**	NT		NT	**1,300.**	**A**	NT		**510.** **A**
Magnesium-T	mg/l	**440.**	**A**	NT		NT	**1,200.**	**A**	NT		**560.** **A**
Manganese-D	µg/l	**7,900.**	**A**	NT		NT	**700.**	**A**	NT		**290.** **A**
Manganese-T	µg/l	**7,900.**	**A**	NT		NT	**610.**	**A**	NT		**380.** **A**
Molybdenum-D	µg/l	**47.**	**A/J**	NT		NT	**51.**	**A/J**	NT		**49.** **A/J**
Molybdenum-T	µg/l	ND(500.)	A/U	NT		NT	ND(500.)	A/U	NT		ND(500.) A/U
Nickel-D	µg/l	**170.**	**A**	NT		NT	**44.**	**A/J**	NT		ND(100.) A/U
Nickel-T	µg/l	**180.**	**A**	NT		NT	**56.**	**A/J**	NT		**64.** **A/J**
Potassium-D	mg/l	**44.**	**A**	NT		NT	**52.**	**A**	NT		**35.** **A**
Potassium-T	mg/l	**43.**	**A**	NT		NT	**50.**	**A**	NT		**38.** **A**
Sodium-D	mg/l	**2,400.**	**A**	NT		NT	**1,000.**	**A**	NT		**850.** **A**
Sodium-T	mg/l	**2,300.**	**A**	NT		NT	**970.**	**A**	NT		**920.** **A**
SW7470											
Mercury-D	µg/l	**0.018**	**A/J**	NT		NT	ND(0.20)	A/U	NT		ND(0.20) A/U
Mercury-T	µg/l	**0.048**	**A/J**	NT		NT	ND(0.20)	A/U	NT		**0.028** **A/J**
SW8015M											
Diesel Range Organics (C12 - C24)	µg/l	**1,300.**	**A**	NT		NT	ND(200.)	A/U	NT		NT

Table G-11b. Detected Compounds in the PSCT Evaluation Wells, Upper HSU

April 2008

Final Remedial Investigation Report

Casmalia Resources Superfund Site

Casmalia, California

	Sample Date:	**RIMW-2**		**RIMW-2**		**RIMW-5**		**SW-29**		**SW-29**		**WP-3S**	
	Sample Depth (feet):	**04/17/08**		**04/17/08**		**04/18/08**		**04/23/08**		**04/23/08**		**04/18/08**	
	Sample Number:	**32143**		**32143**		**32150**		**32189**		**32189**		**32159**	
	Lab Batch:	**0805001**		**4916**		**0805053**		**0805277**		**4925**		**0805053**	
Test Method/Analyte Name	Units	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
SW8260													
1,1 Dichloroethane	µg/l	**50.**	**A**	NT		ND(0.50)	A/U	ND(0.50)	A/U	NT		ND(0.50)	A/U
1,1 Dichloroethene	µg/l	**7.3**	**A**	NT		ND(0.50)	A/U	ND(0.50)	A/U	NT		ND(0.50)	A/U
1,1,1 Trichloroethane	µg/l	**2.9**	**A**	NT		ND(0.50)	A/U	ND(0.50)	A/U	NT		ND(0.50)	A/U
1,1,2 Trichloroethane	µg/l	ND(0.50)	A/U	NT		ND(0.50)	A/U	ND(0.50)	A/U	NT		ND(0.50)	A/U
1,1-Dimethyl 1H-indene	µg/l	**50.**	**A/N**	NT		NT		NT		NT		NT	
1,2 Dichloroethane	µg/l	**1.9**	**A**	NT		ND(0.50)	A/U	ND(0.50)	A/U	NT		ND(0.50)	A/U
1,2 Dichloroethene	µg/l	**35.**	**A**	NT		ND(1.0)	A/U	ND(1.0)	A/U	NT		ND(1.0)	A/U
1,2 Dichloropropane	µg/l	ND(0.50)	A/U	NT		ND(0.50)	A/U	ND(0.50)	A/U	NT		ND(0.50)	A/U
1,2,2,3-Tetramethyl-1,3-diaza-2-silacycl	µg/l	NT		NT		NT		NT		NT		NT	
1,2-Dichlorobenzene	µg/l	**2.9**	**A**	NT		ND(0.50)	A/U	ND(0.50)	A/U	NT		ND(0.50)	A/U
1,2-Dichlorotrifluoroethane	µg/l	**12.**	**A/N**	NT		NT		NT		NT		**74.**	**A/N**
1-ethenyl-2,3-dihydro 1H-Inden	µg/l	NT		NT		NT		NT		NT		NT	
2-(Ethylthio)butane	µg/l	NT		NT		NT		NT		NT		NT	
2-(Ethylthio)propane	µg/l	**3.3**	**A/N**	NT		NT		NT		NT		NT	
2,5-Dichloropyridine	µg/l	NT		NT		NT		NT		NT		NT	
2-chloro-1,1,1,2-tetrafluoroethane	µg/l	NT		NT		NT		NT		NT		NT	
Benzene	µg/l	**2.5**	**A**	NT		ND(0.50)	A/U	ND(0.50)	A/U	NT		ND(0.50)	A/U
Chlorobenzene	µg/l	**0.39**	**A/J**	NT		ND(0.50)	A/U	ND(0.50)	A/U	NT		ND(0.50)	A/U
Chloroethane	µg/l	ND(0.50)	A/U	NT		ND(0.50)	A/U	ND(0.50)	A/U	NT		ND(0.50)	A/U
Chlorofluoromethane	µg/l	NT		NT		NT		NT		NT		NT	
Chloroform	µg/l	**5.2**	**A**	NT		ND(0.50)	A/U	ND(0.50)	A/U	NT		ND(0.50)	A/U
Chlorotrifluoroethene	µg/l	**0.29**	**A/J**	NT		ND(0.50)	UJ/U	ND(0.50)	A/U	NT		**18.**	**A**
Cis 1,2 Dichloroethene	µg/l	**34.**	**A**	NT		ND(0.50)	A/U	ND(0.50)	A/U	NT		ND(0.50)	A/U
Dichlorofluoromethane	µg/l	NT		NT		NT		NT		NT		**7.5**	**A/N**
Diisopropyl ether	µg/l	ND(0.50)	A/U	NT		ND(0.50)	A/U	ND(0.50)	A/U	NT		ND(0.50)	A/U
Diisopropyl sulfide	µg/l	**12.**	**A/N**	NT		NT		NT		NT		NT	
Ethyl ether	µg/l	**3.7**	**A/N**	NT		NT		NT		NT		NT	
Freon 11	µg/l	ND(0.50)	A/U	NT		ND(0.50)	A/U	ND(0.50)	A/U	NT		**12.**	**A**
Freon 112	µg/l	**2.1**	**A**	NT		ND(0.50)	A/U	ND(0.50)	A/U	NT		ND(0.50)	A/U
Freon 113	µg/l	**12.**	**A**	NT		ND(0.50)	A/U	ND(0.50)	A/U	NT		**120.**	**A**
Freon 12	µg/l	ND(0.50)	A/U	NT		ND(0.50)	A/U	ND(0.50)	A/U	NT		**2.4**	**A**
Methylcyclopentane	µg/l	ND(0.50)	A/U	NT		ND(0.50)	A/U	ND(0.50)	A/U	NT		ND(0.50)	A/U
Methylene Chloride	µg/l	ND(1.0)	A/U	NT		ND(1.0)	A/U	ND(1.0)	A/U	NT		ND(1.0)	A/U
Methyl-tert-butyl ether	µg/l	ND(0.50)	A/U	NT		ND(0.50)	A/U	ND(0.50)	A/U	NT		ND(0.50)	A/U
Phosphorisocyanatidothioic difluoride	µg/l	**3.5**	**A/N**	NT		NT		NT		NT		NT	
sec-Butylisopropylsulfide	µg/l	**5.2**	**A/N**	NT		NT		NT		NT		NT	
tert-Amyl Alcohol	µg/l	NT		NT		NT		NT		NT		NT	
Tetrachloroethene	µg/l	**55.**	**A**	NT		ND(0.50)	A/U	ND(0.50)	A/U	NT		ND(0.50)	A/U

Table G-11b. Detected Compounds in the PSCT Evaluation Wells, Upper HSU
April 2008
Final Remedial Investigation Report
Casmalia Resources Superfund Site
Casmalia, California

	Sample Date:	RIMW-2		RIMW-2		RIMW-5		SW-29		SW-29		WP-3S	
	Sample Depth (feet):	04/17/08		04/17/08		04/18/08		04/23/08		04/23/08		04/18/08	
	Sample Number:	32143		32143		32150		32189		32189		32159	
	Lab Batch:	0805001		4916		0805053		0805277		4925		0805053	
Test Method/Analyte Name	Units	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Tetrahydro-2,2,5,5-tetramethylfuran	µg/l	**13.**	**A/N**	NT		NT		NT		NT		NT	
Tetrahydrofuran	µg/l	**15.**	**A/J**	NT		ND(20.)	A/U	**13.**	**A/J**	NT		ND(20.)	A/U
trans 1,2 Dichloroethene	µg/l	**0.97**	**A**	NT		ND(0.50)	A/U	ND(0.50)	A/U	NT		ND(0.50)	A/U
Trichloroethene	µg/l	**96.**	**A**	NT		ND(0.50)	A/U	ND(0.50)	A/U	NT		ND(0.50)	A/U
Trifluoromethylbenzene	µg/l	**0.78**	**A**	NT		ND(0.50)	A/U	ND(0.50)	A/U	NT		ND(0.50)	A/U
Vinyl Chloride	µg/l	**12.**	**A**	NT		ND(0.50)	A/U	ND(0.50)	A/U	NT		ND(0.50)	A/U
SW8270													
1,1-dioxide-tetrahydro-Thiophene	µg/l	**130.**	**A/N**	NT		NT		NT		NT		NT	
1,2-Dichlorobenzene	µg/l	**2.0**	**A**	NT		ND(2.0)	A/U	ND(2.0)	A/U	NT		ND(2.0)	A/U
2,3-Dichloropyridine	µg/l	NT		NT		NT		NT		NT		NT	
2,6-Dichloropyridine	µg/l	NT		NT		NT		NT		NT		NT	
6-Chloro-2-pyridinecarboxylic acid	µg/l	NT		NT		NT		NT		NT		NT	
bis(2-Ethylhexyl) phthalate	µg/l	ND(4.0)	A/U	NT		**14.**	**A**	**2.0**	**A/J**	NT		ND(4.0)	A/U
Cyclohexene 3-(tert-butyl)Peroxide	µg/l	NT		NT		NT		NT		NT		NT	
n-Hexadecanoic acid	µg/l	NT		NT		NT		**6.9**	**A/N**	NT		NT	
N-Nitrosomorpholine	µg/l	ND(10.)	A/U	NT		ND(10.)	A/U	ND(10.)	A/U	NT		ND(10.)	A/U
Octadecanoic acid	µg/l	NT		NT		NT		**8.7**	**A/N**	NT		NT	
Unknown Compound @5_27 Min_	µg/l	NT		NT		NT		NT		NT		NT	
Unknown Compound @7_16 Min_	µg/l	**35.**	**A/N**	NT		NT		NT		NT		NT	
SW8270C-SIM													
1,4-Dichlorobenzene	µg/l	**0.97**	**A**	NT		ND(0.10)	A/U	ND(0.10)	A/U	NT		ND(0.10)	A/U
Acenaphthylene	µg/l	**0.081**	**A/J**	NT		ND(0.10)	A/U	ND(0.10)	A/U	NT		ND(0.10)	A/U
Benzo(b)fluoranthene	µg/l	**0.019**	**A/J**	NT		ND(0.10)	UJ/U	**0.066**	**J/J**	NT		ND(0.10)	A/U
Fluorene	µg/l	**0.036**	**A/J**	NT		**0.022**	**J/J**	ND(0.10)	A/U	NT		ND(0.10)	A/U
Naphthalene	µg/l	**0.027**	**A/J**	NT		ND(0.10)	A/U	ND(0.10)	A/U	NT		ND(0.10)	A/U
N-Nitrosodiethylamine	µg/l	**0.078**	**A/J**	NT		ND(0.10)	A/U	ND(0.10)	A/U	NT		ND(0.10)	A/U
N-Nitrosodinpropylamine	µg/l	**0.69**	**A**	NT		**0.97**	**J**	**0.36**	**J**	NT		**0.58**	**A**
N-Nitrosomethylethylamine	µg/l	**0.33**	**A**	NT		ND(0.10)	A/U	ND(0.10)	A/U	NT		ND(0.10)	A/U
n-Nitrosopyrrolidine	µg/l	**0.023**	**A/J**	NT		ND(0.10)	A/U	ND(0.10)	A/U	NT		ND(0.10)	A/U
Pentachloronitrobenzene	µg/l	ND(0.10)	A/U	NT		**0.034**	**J/J**	**0.18**	**J**	NT		ND(0.10)	A/U
Pyrene	µg/l	ND(0.10)	A/U	NT		ND(0.10)	A/U	ND(0.10)	A/U	NT		ND(0.10)	A/U
SW8290													
OCDD	pg/l	NT		ND(3.66)	A/U	NT		NT		ND(5.07)	A/U	NT	
SW9012													
Cyanide (Free)	mg/l	ND(0.005)	A/U	NT		NT		ND(0.005)	A/U	NT		NT	
Cyanide Amenable to Chlorination	mg/l	ND(0.005)	A/U	NT		NT		ND(0.005)	A/U	NT		NT	

Summary of Analyte Qualifiers used in this Report

Type	Qualifier	Qualifier Description
Laboratory Assigned Qualifiers		
Inorganic	U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
Organic	D	interference.
Organic	J	Result is detected below the reporting limit or is an estimated concentration.
Organic	U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
MACTEC Validation Assigned Qualifiers		
Inorganic	A	Sample has undergone routine data validation.
Inorganic	J	Data are qualified as estimated. It is not possible to assess the direction of the potential bias. False positives or false negatives are unlikely to have been reported.
Inorganic	J+	Data are qualified as estimated, with a high bias likely to occur. False positives or false negatives are unlikely to have been reported.
Inorganic	U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
Organic	A	Sample has undergone routine data validation.
Organic	J	Data are qualified as estimated. It is not possible to assess the direction of the potential bias. False positives or false negatives are unlikely to have been reported.
Organic	U	Data are qualified as nondetected, because the analyte was observed in an associated laboratory or field blank.

Notes:
Where validation qualifiers are absent, data was used for screening purposes only.
Qualifiers are listed as validation qualifier / lab qualifier where applicable (e.g. B/R)

MCL/PRG Cleanup Criteria

Analyte	Cas Number	MCL/PRG	Units
1,1 Dichloroethane	75-34-3	2.40	ug/l
1,1 Dichloroethene	75-35-4	6.00	ug/l
1,1,1 Trichloroethane	71-55-6	200.00	ug/l
1,1,2 Trichloroethane	79-00-5	0.24	ug/l
1,2 Dichloroethane	107-06-2	0.15	ug/l
1,2 Dichloroethene	540-59-0	330.00	ug/l
1,2 Dichloropropane	78-87-5	0.39	ug/l
1,4-Dichlorobenzene	106-46-7	0.43	ug/l
Antimony-D	7440-36-0-D	6.00	ug/l
Arsenic-D	7440-38-2-D	0.05	ug/l
Arsenic-T	7440-38-2	0.05	ug/l
Benzene	71-43-2	0.41	ug/l
Benzo(b)fluoranthene	205-99-2	0.03	ug/l
bis(2-Ethylhexyl) phthalate	117-81-7	4.00	ug/l
Cadmium-D	7440-43-9-D	5.00	ug/l
Cadmium-T	7440-43-9	5.00	ug/l
Chloroform	67-66-3	0.19	ug/l
Chromium-T	7440-47-3	50.00	ug/l
Cis 1,2 Dichloroethene	156-59-2	6.00	ug/l
Cobalt-D	7440-48-4-D	11.00	ug/l
Cobalt-T	7440-48-4	11.00	ug/l
Freon 113	76-13-1	1,200.00	ug/l
Iron-T	7439-89-6	26,000.00	ug/l
Lead-D	7439-92-1-D	15.00	ug/l
Manganese-D	7439-96-5-D	50.00	ug/l
Manganese-T	7439-96-5	50.00	ug/l
MCPA	94-74-6	18.00	ug/l
Naphthalene	91-20-3	0.14	ug/l
Nickel-D	7440-02-0-D	100.00	ug/l
Nickel-T	7440-02-0	100.00	ug/l
N-Nitrosodiethylamine	55-18-5	0.00014	ug/l
N-Nitrosodinpropylamine	621-64-7	0.01	ug/l
N-Nitrosomethylethylamine	10595-95-6	0.00	ug/l
n-Nitrosopyrrolidine	930-55-2	0.03	ug/l
Selenium-D	7782-49-2-D	50.00	ug/l
Selenium-T	7782-49-2	50.00	ug/l
Tetrachloroethene	127-18-4	0.10	ug/l
trans 1,2 Dichloroethene	156-60-5	10.00	ug/l
Trichloroethene	79-01-6	1.70	ug/l
Vinyl Chloride	75-01-4	0.16	ug/l
Zinc-T	7440-66-6	5,000.00	ug/l

Boxed Values: Compound detected at a concentration exceeding criteria.
ND = Not Detected at the specific reporting level in parentheses.
NT = Not analyzed.
MCLs/PRGs 2008

Checked: NM

Approved: WC