

Table G-20b. Detected Compounds in the Former Ranch Wells  
 April 2008  
 Final Remedial Investigation Report  
 Casmalia Resources Superfund Site  
 Casmalia, California

Test Method/Analyte Name	Units	Sample Date:	WS-1	WS-4	WS-4 (Duplicate)
		Sample Depth (feet):	04/25/08	04/25/08	04/25/08
		Value	Qual	Value	Qual
E150.1					
pH	ph	7.39	A	6.98	A
E200.8					
Antimony-T	µg/l	0.48	A/J	ND(4.0)	A/U
Arsenic-D	µg/l	3.3	A/J	ND(4.0)	A/U
Arsenic-T	µg/l	3.2	A/J	ND(4.0)	A/U
Cadmium-D	µg/l	0.13	A/J	ND(2.0)	A/U
Cadmium-T	µg/l	0.24	A/J	ND(2.0)	A/U
Lead-T	µg/l	0.21	A/J	0.14	A/J
Selenium-D	µg/l	7.2	A	1.5	A/J
Selenium-T	µg/l	6.0	A	ND(4.0)	A/U
Thallium-D	µg/l	ND(2.0)	A/U	0.14	A/J
Thallium-T	µg/l	ND(2.0)	A/U	0.11	A/J
Tin-T	µg/l	ND(2.0)	A/U	0.27	A/J
Zinc-D	µg/l	1.9	A/J	ND(10.)	A/U
Zinc-T	µg/l	11.	J	8.8	J/J
E300.0					
Bromide	mg/l	0.84	A	0.91	A
Chloride	mg/l	270.	A	300.	A
Fluoride	mg/l	0.25	A	0.89	A
Nitrate (as NO3)	mg/l	23.	A	3.3	A
Nitrate as N	mg/l	5.2	A	0.75	A
Sulfate	mg/l	360.	A	350.	A
SM2320B					
Bicarbonate Alkalinity as CaCO3	mg/l	310.	A	460.	A
SM2540C					
Total Dissolved Solids (TDS)	mg/l	1,400.	A	1,400.	A
SW6010					

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		04/25/08		04/25/08		04/25/08	
Units	Value	Qual	Value	Qual	Value	Qual	
Barium-D	μg/l	42.	A/J	77.	A/J	76.	A/J
Barium-T	μg/l	44.	A/J	94.	A/J	84.	A/J
Calcium-D	mg/l	150.	A	110.	A	110.	A
Calcium-T	mg/l	160.	A	110.	A	100.	A
Chromium-D	μg/l	5.3	A/J	ND(100.)	A/U	ND(100.)	A/U
Iron-D	μg/l	ND(250.)	A/U	15,000.	A	16,000.	A
Iron-T	μg/l	ND(250.)	A/U	17,000.	A	16,000.	A
Magnesium-D	mg/l	81.	A	63.	A	63.	A
Magnesium-T	mg/l	82.	A	64.	A	60.	A
Manganese-D	μg/l	3.9	A/J	1,400.	A	1,500.	A
Manganese-T	μg/l	15.	A/J	1,500.	A	1,400.	A
Molybdenum-D	μg/l	30.	A/J	33.	A/J	ND(500.)	A/U
Molybdenum-T	μg/l	31.	A/J	ND(500.)	A/U	ND(500.)	A/U
Potassium-D	mg/l	5.8	A	13.	A	14.	A
Potassium-T	mg/l	5.8	J	13.	J	13.	J
Sodium-D	mg/l	200.	A	330.	A	330.	A
Sodium-T	mg/l	200.	A	330.	A	310.	A
Vanadium-D	μg/l	19.	A/J	ND(100.)	A/U	ND(100.)	A/U
Vanadium-T	μg/l	21.	A/J	ND(100.)	A/U	ND(100.)	A/U
SW8270C-SIM							
Benzo(a)anthracene	μg/l	0.086	A/J	0.088	A/J	0.087	J/J
Benzo(b)fluoranthene	μg/l	ND(0.10)	UJ/U	0.17	J	ND(0.10)	UJ/U
Naphthalene	μg/l	ND(0.10)	A/U	0.033	A/J	0.026	A/J
N-Nitrosodipropylamine	μg/l	0.37	A	ND(0.40)	U	ND(0.33)	U

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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	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.
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)

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**MCL/PRG Cleanup Criteria**

<b>Analyte</b>	<b>Cas Number</b>	<b>MCL/PRG</b>	<b>Units</b>
Arsenic-D	7440-38-2-D	0.05	ug/l
Arsenic-T	7440-38-2	0.05	ug/l
Benzo(a)anthracene	56-55-3	0.03	ug/l
Benzo(b)fluoranthene	205-99-2	0.03	ug/l
Manganese-D	7439-96-5-D	50.00	ug/l
Manganese-T	7439-96-5	50.00	ug/l
N-Nitrosodipropylamine	621-64-7	0.01	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