

Fwd: Water Levels

From: Stephen Cohen
To: Betty Garrett
Date: 01/09/2008 1:52 PM
Subject: Fwd: Water Levels

Please Docket - Kennecott

>>> "Paulson, Oscar (RTEA)" <Oscar.Paulson@riotinto.com> 11/20/2007 6:15 PM >>>
Stephen Cohen:

When we last spoke on Thursday, November 8, 2007, you discussed examining the site groundwater data. You asked about groundwater elevations. Attached please find the Microsoft Excel 98.xls file TMWsJune-Oct2007_02.xls that contains the water elevations for rte site monitor wells including the six (6) newly drilled wells West of the Mill and Solvent Extraction (SX) Buildings and the newly dug well TMW-10 in the bottom of the diesel contaminated soil excavation. Coordinates for the wells are included on the spreadsheet.

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Subject: Fwd: Water Levels
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From: Stephen Cohen

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MESSAGE	1772	01/09/2008 1:52:28 PM
TEXT.htm	4751	
TMWsJune-Oct2007_02.xls	58880	01/09/2008 1:52:15 PM

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			*Revised					
Well			Measuring					
No.	Northing	Easting	Point Elev.	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07
TMW-1				105.33	105.37	105.44	105.29	105.32
TMW-1	150,107.66	324,536.42	6648.22	6,544.28	6,544.24	6,544.17	6,544.32	6,544.29
TMW-2				88.25	84.80	84.88	84.75	84.78
TMW-2	147,133.96	324,360.13	6627.09	6,538.84	6,542.29	6,542.21	6,542.34	6,542.31
TMW-3				84.25	84.19	84.31	84.22	84.21
TMW-3	145,984.03	324,361.03	6626.27	6,542.02	6,542.08	6,541.96	6,542.05	6,542.06
TMW-4				85.25	85.31	85.39	85.40	85.37
TMW-4	147,141.81	323,176.55	6626.89	6,541.64	6,541.58	6,541.50	6,541.49	6,541.52
TMW-5				111.18	111.15	95.18	111.15	111.17
TMW-5	149,053.50	328,102.80	6658.59	6,547.41	6,547.44	6,563.41	6,547.44	6,547.42
TMW-6				97.06	97.02	97.05	97.05	97.11
TMW-6	145,356.25	327,464.50	6641.66	6,544.60	6,544.64	6,544.61	6,544.61	6,544.55
TMW-7				116.94	117.11	116.61	116.88	121.79
TMW-7	149,339.65	325,014.01	6654.40	6,537.75	6,537.58	6,538.08	6,537.81	6,532.90
TMW-8				102.93	102.92	102.99	103.05	102.90
TMW-8	148,912.15	324,561.80	6646.47	6,543.54	6,543.55	6,543.48	6,543.42	6,543.57
TMW-10							12.65	13.36
TMW-10	149,145.59	323,037.81	6556.92				6,544.27	6,543.56
TMW-15				100.82	100.99	100.88	100.90	100.93
TMW-15	147,910.39	325,006.29	6643.26	6,542.44	6,542.27	6,542.38	6,542.36	6,542.33
TMW-16				112.62	112.72	112.65	112.85	112.98
TMW-16	149,397.99	325,023.08	6655.62	6,543.00	6,542.90	6,542.97	6,542.77	6,542.64
TMW-17				119.06	118.59	118.39	117.48	122.92
TMW-17	149,602.14	325,994.00	6660.87	6,541.81	6,542.28	6,542.48	6,543.39	6,537.95
TMW-18				126.53	126.31	126.55	126.64	126.52
TMW-18	148,922.42	325,018.57	6655.98	6,529.45	6,529.67	6,529.43	6,529.34	6,529.46
TMW-24				114.75	114.76	114.69	114.71	114.77
TMW-24	150,307.90	325,992.24	6661.21	6,546.46	6,546.45	6,546.52	6,546.50	6,546.44
TMW-29				110.11	110.09	110.12	110.03	110.23
TMW-29	150,108.27	326,786.49	6656.64	6,546.53	6,546.55	6,546.52	6,546.61	6,546.41
TMW-31				114.32	114.31	114.35	114.28	114.41
TMW-31	149,901.61	327,194.15	6661.09	6,546.77	6,546.78	6,546.74	6,546.81	6,546.68
TMW-35				111.30	111.32	113.34	111.28	111.41
TMW-35	149,509.35	327,198.92	6657.75	6,546.45	6,546.43	6,544.41	6,546.47	6,546.34
TMW-36				111.91	111.93	111.99	111.88	112.04
TMW-36	149,108.62	327,007.02	6657.75	6,545.84	6,545.82	6,545.76	6,545.87	6,545.71
TMW-37				105.05	105.03	105.09	104.99	105.11
TMW-37	148,455.68	326,999.77	6650.73	6,545.68	6,545.70	6,545.64	6,545.74	6,545.62
TMW-44				94.15	94.11	94.26	94.16	94.27
TMW-44	147,612.17	325,588.96	6637.52	6,543.37	6,543.41	6,543.26	6,543.36	6,543.25
TMW-45				96.86	96.75	96.92	96.82	96.94
TMW-45	147,619.66	326,196.14	6641.00	6,544.14	6,544.25	6,544.08	6,544.18	6,544.06
TMW-47				95.39	95.31	95.35	95.35	95.32
TMW-47	147,310.10	326,491.24	6640.35	6,544.96	6,545.04	6,545.00	6,545.00	6,545.03
TMW-48				95.20	95.14	95.14	95.17	95.28
TMW-48	147,312.58	326,482.99	6639.72	6,544.52	6,544.58	6,544.58	6,544.55	6,544.44

TMW-49				97.76	97.76	97.76	97.79	97.86
TMW-49	147,708.93	324,836.10	6640.19	6,542.43	6,542.43	6,542.43	6,542.40	6,542.33
TMW-50				105.78	105.77	105.82	105.79	105.89
TMW-50	148,198.81	324,697.71	6647.80	6,542.02	6,542.03	6,541.98	6,542.01	6,541.91
TMW-51				108.04	108.04	108.05	108.03	108.10
TMW-51	147,995.26	324,449.18	6650.00	6,541.96	6,541.96	6,541.95	6,541.97	6,541.90
TMW-52				103.17	103.15	103.14	103.06	103.21
TMW-52	148,316.56	324,221.64	6644.70	6,541.53	6,541.55	6,541.56	6,541.64	6,541.49
TMW-53				99.73	99.72	99.75	99.68	99.81
TMW-53	147,849.28	323,913.72	6641.47	6,541.74	6,541.75	6,541.72	6,541.79	6,541.66
TMW-54				56.12	56.29	55.26	55.56	55.05
TMW-54	149,122.85	324,827.05	6,652.06	6,595.94	6,595.77	6,596.80	6,596.50	6,597.01
TMW-55				54.83	55.00	54.98	54.49	54.03
TMW-55	149,098.35	324,587.76	6,649.48	6,594.65	6,594.48	6,594.50	6,594.99	6,595.45
TMW-56				105.71	105.62	105.66	105.52	105.78
TMW-56	149,105.02	324,418.67	6,647.72	6,542.01	6,542.10	6,542.06	6,542.20	6,541.94
TMW-57				113.33	113.21	113.00	113.11	112.92
TMW-57	149,296.82	324,590.47	6,649.86	6,536.53	6,536.65	6,536.86	6,536.75	6,536.94
TMW-58				106.11	106.11	106.15	106.35	106.15
TMW-58	148,915.74	324,570.92	6,646.96	6,540.85	6,540.85	6,540.81	6,540.61	6,540.81
TMW-59				111.51	111.38	111.37	111.36	111.41
TMW-59	148,403.85	325,013.86	6,648.15	6,536.64	6,536.77	6,536.78	6,536.79	6,536.74
TMW-61				107.51	107.49	107.55	107.51	107.59
TMW-61	148,422.32	324,592.68	6,649.36	6,541.85	6,541.87	6,541.81	6,541.85	6,541.77
TMW-62				104.76	104.80	104.61	104.96	broke off
TMW-62	148,789.00	324,277.11	6,646.13	6,541.52	6,541.48	6,541.67	6,541.32	#VALUE!
TMW-63				117.99	117.91	118.00	118.18	118.09
TMW-63	148,924.39	325,009.90	6,654.77	6,536.78	6,536.86	6,536.77	6,536.59	6,536.68
TMW-64				108.36	108.32	108.28	108.22	108.44
TMW-64	149,797.71	324,991.71	6,652.25	6,543.86	6,543.90	6,543.94	6,544.00	6,543.78
TMW-67				71.97	72.10	72.11	72.14	72.05
TMW-67	150,003.26	325,192.80	6,656.63	6,584.66	6,584.53	6,584.52	6,584.49	6,584.58
TMW-69				111.13	111.11	111.06	111.04	111.22
TMW-69	149,649.27	324,659.43	6,654.47	6,543.34	6,543.36	6,543.41	6,543.43	6,543.25
TMW-70				108.73	108.75	108.66	108.61	108.79
TMW-70	149,309.09	324,369.82	6,651.06	6,542.33	6,542.31	6,542.40	6,542.45	6,542.27
TMW-71				110.94	110.92	110.89	110.88	111.00
TMW-71	149,835.18	324,420.67	6,654.52	6,543.58	6,543.60	6,543.63	6,543.64	6,543.52
TMW-72				98.91	98.91	98.94	98.75	98.85
TMW-72	149,020.47	322,997.15	6,640.35	6,541.44	6,541.44	6,541.41	6,541.60	6,541.50
TMW-73				101.39	101.31	101.39	101.09	101.17
TMW-73	149,055.70	322,896.82	6,643.31	6,541.92	6,542.00	6,541.92	6,542.22	6,542.14
TMW-75				116.05	116.12	116.06	116.19	116.54
TMW-75	149,801.01	325,992.80	6,660.18	6,544.13	6,544.06	6,544.12	6,543.99	6,543.64
TMW-78				113.75	113.69	113.74	113.74	114.11
TMW-78	149,900.26	325,592.38	6,658.50	6,544.75	6,544.81	6,544.76	6,544.76	6,544.39
TMW-82				114.67	114.57	114.63	114.52	114.69
TMW-82	150,302.15	325,987.47	6,660.64	6,545.97	6,546.07	6,546.01	6,546.12	6,545.95
TMW-83				63.93	115.31	63.96	63.98	63.97

TMW-83	150,307.20	326,379.40	6,658.87	6,594.94	6,543.56	6,594.91	6,594.89	6,594.90
TMW-84				115.36	63.98	115.26	115.23	115.42
TMW-84	150,506.27	326,376.61	6,661.86	6,546.50	6,597.88	6,546.60	6,546.63	6,546.44
TMW-87				89.85	89.82	89.81	89.85	89.85
TMW-87	150,200.92	325,789.12	6,660.60	6,570.75	6,570.78	6,570.79	6,570.75	6,570.75
TMW-89				113.54	114.14	114.10	114.11	114.20
TMW-89	150,809.67	326,137.13	6,660.75	6,547.21	6,546.61	6,546.65	6,546.64	6,546.55
TMW-90								
TMW-90	148,611.42	323,958.91	6,639.82					
TMW-91				104.04	103.99	103.64	103.64	103.88
TMW-91	148,518.42	323,956.85	6,639.61	6,540.35	6,540.40	6,540.75	6,540.75	6,540.51
TMW-92				104.64	104.46	104.06	104.06	104.34
TMW-92	148,504.47	323,951.33	6,640.15	6,540.07	6,540.25	6,540.65	6,540.65	6,540.37
TMW-93				100.11	100.06	99.89	99.89	100.03
TMW-93	148,399.92	324,099.96	6,641.02	6,540.91	6,540.96	6,541.13	6,541.13	6,540.99
TMW-94				100.34	100.30	100.06	100.06	100.25
TMW-94	148,400.13	324,000.02	6,640.53	6,540.19	6,540.23	6,540.47	6,540.47	6,540.28
TMW-95				100.78	100.71	100.44	100.44	100.65
TMW-95	148,399.94	323,900.08	6,640.57	6,539.79	6,539.86	6,540.13	6,540.13	6,539.92
TMW-96				107.76	108.89	107.68	107.81	106.70
TMW-96	148,500.01	323,820.25	6,640.36	6,532.60	6,531.47	6,532.68	6,532.55	6,533.66
TMW-97				105.21	104.32	102.01	101.95	105.50
TMW-97	148,599.86	323,805.93	6,641.54	6,536.33	6,537.22	6,539.53	6,539.59	6,536.04
TMW-98				100.25	100.21	99.90	99.90	100.20
TMW-98	148,699.84	323,822.69	6,643.60	6,543.35	6,543.39	6,543.70	6,543.70	6,543.40
TMW-99				99.75	99.75	99.45	99.45	99.72
TMW-99	148,707.32	323,908.85	6,643.84	6,544.09	6,544.09	6,544.39	6,544.39	6,544.12
TMW-100				101.98	101.98	101.77	101.77	101.88
TMW-100	148,799.77	324,016.92	6,639.85	6,541.22	6,541.22	6,541.43	6,541.43	6,541.32
TMW-101				102.95	102.91	102.71	102.71	102.85
TMW-101	148,800.10	324,100.06	6,641.64	6,543.55	6,543.59	6,543.79	6,543.79	6,543.65
TMW-102				109.99	107.05	117.59	117.59	111.30
TMW-102	148,600.02	323,968.63	6,639.74	6,534.55	6,537.49	6,526.95	6,526.95	6,533.24
TMW-103				100.85	100.72	100.75	100.75	100.81
TMW-103	149,144.44	323,576.50	6,642.87	6,542.02	6,542.15	6,542.12	6,542.12	6,542.06
TMW-104				102.99	102.89	101.78	102.65	102.79
TMW-104	148,508.55	324,122.60	6,639.71	6,540.95	6,541.05	6,542.16	6,541.29	6,541.15
TMW-105								
TMW-105	148,581.02	323,943.82	6,640.18					
TMW-106				100.42	100.35	100.33	100.33	100.42
TMW-106	149,120.61	323,577.45	6,642.25	6,541.83	6,541.90	6,541.92	6,541.92	6,541.83
TMW-107				97.06	97.78	97.81	97.43	97.85
TMW-107	148,109.87	323,621.68	6,638.80	6,541.74	6,541.02	6,540.99	6,541.37	6,540.95
TMW-108				100.44	100.49	100.32	100.32	100.51
TMW-108	148,581.99	323,650.69	6,641.43	6,540.99	6,540.94	6,541.11	6,541.11	6,540.92
TMW-109				100.01	100.10	100.04	100.04	100.13
TMW-109	148,563.38	323,651.83	6,641.21	6,541.20	6,541.11	6,541.17	6,541.17	6,541.08
TMW-110				97.42	97.65	97.68	97.59	97.72
TMW-110	148,088.65	323,625.57	6,638.71	6,541.29	6,541.06	6,541.03	6,541.12	6,540.99

TMW-111				102.82	102.79	102.68	102.68	102.75
TMW-111	148,800.06	324,188.03	6,643.95	6,541.57	6,541.60	6,541.71	6,541.71	6,541.64
TMW-112				104.26	104.17	104.02	104.02	104.02
TMW-112	148,700.09	324,188.95	6,643.24	6,541.32	6,541.41	6,541.56	6,541.56	6,541.56
TMW-113				103.24	103.18	102.99	102.99	102.98
TMW-113	148,600.06	324,192.45	6,643.51	6,541.13	6,541.19	6,541.38	6,541.38	6,541.39
TMW-115				101.52	101.61	101.33	101.33	101.49
TMW-115	148,499.96	324,199.79	6,642.92	6,541.05	6,540.96	6,541.24	6,541.24	6,541.08
M-1				147.03	146.99	147.05	146.98	147.02
M-1	159,190.56	323,580.63	6,711.30	6,564.27	6,564.31	6,564.25	6,564.32	6,564.28
M-2				65.74	65.88	65.85	65.86	65.85
M-2	145,731.13	317,919.02	6,607.29	6,541.55	6,541.41	6,541.44	6,541.43	6,541.44
PWW-1				100.21	108.42	100.14	100.28	100.11
PWW-1	149,023.15	323,779.27	6,643.08	6,542.87	6,534.66	6,542.94	6,542.80	6,542.97
PWW-2				104.43	105.31	104.38	104.48	104.36
PWW-2	148,877.54	324,180.69	6,646.85	6,542.42	6,541.54	6,542.47	6,542.37	6,542.49