

3.7 地下水モニタリング

掘削工事による汚染の拡大のないことを確認するため、掘削エリアの北側約 2m のところに設置した 3 本の観測井にて定期的に地下水中の総ヒ素濃度のモニタリングを実施している。また、コンクリート様の塊の除去の後に、掘削エリア内に湧き出た地下水の抜き取りにより、総ヒ素濃度がどのように変化するかを調査する。

1) 掘削による周辺環境への影響はなかった。

K-1 = TP +5.599m、深さ 30m
 K-2 = TP +5.519m、深さ 15m
 K-3 = TP +5.599m、深さ 30m

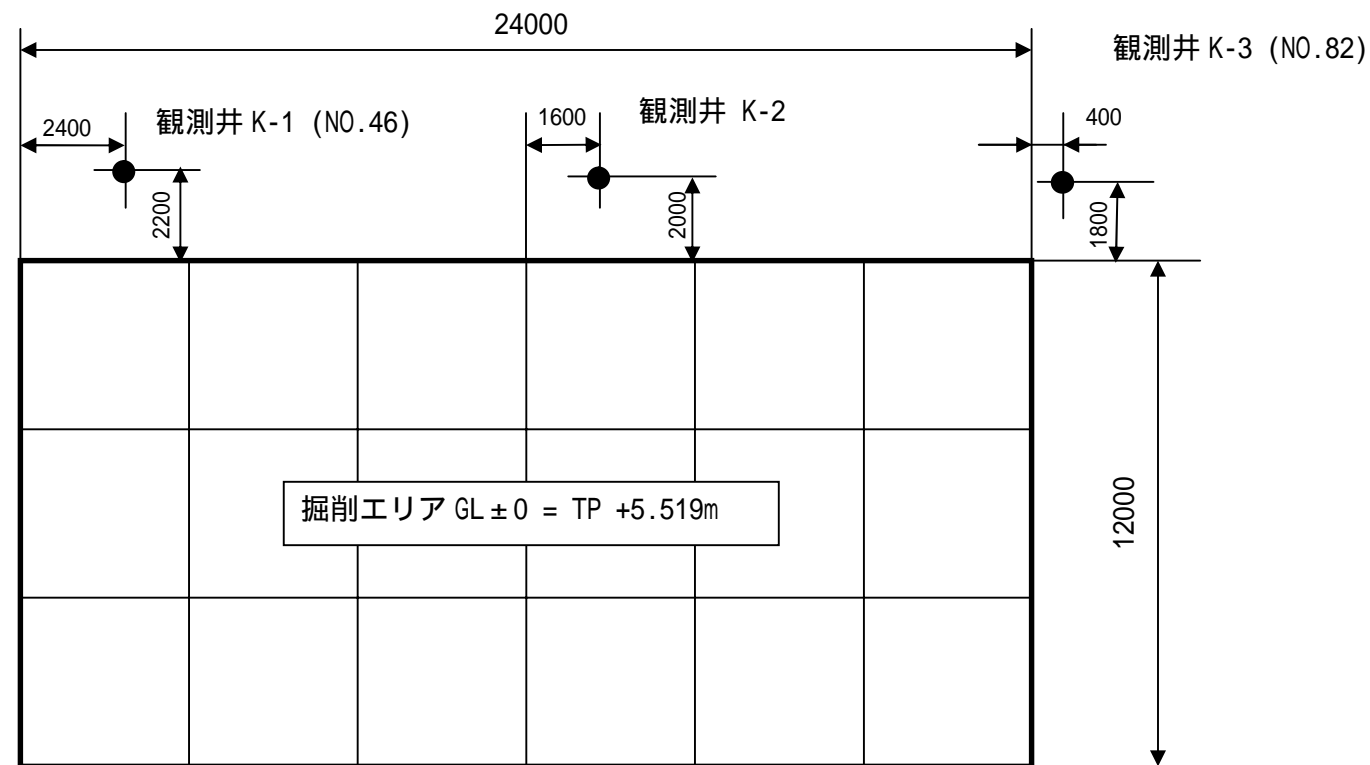


図 3.7.1 観測井位置図

3.7.1 地下水位測定結果

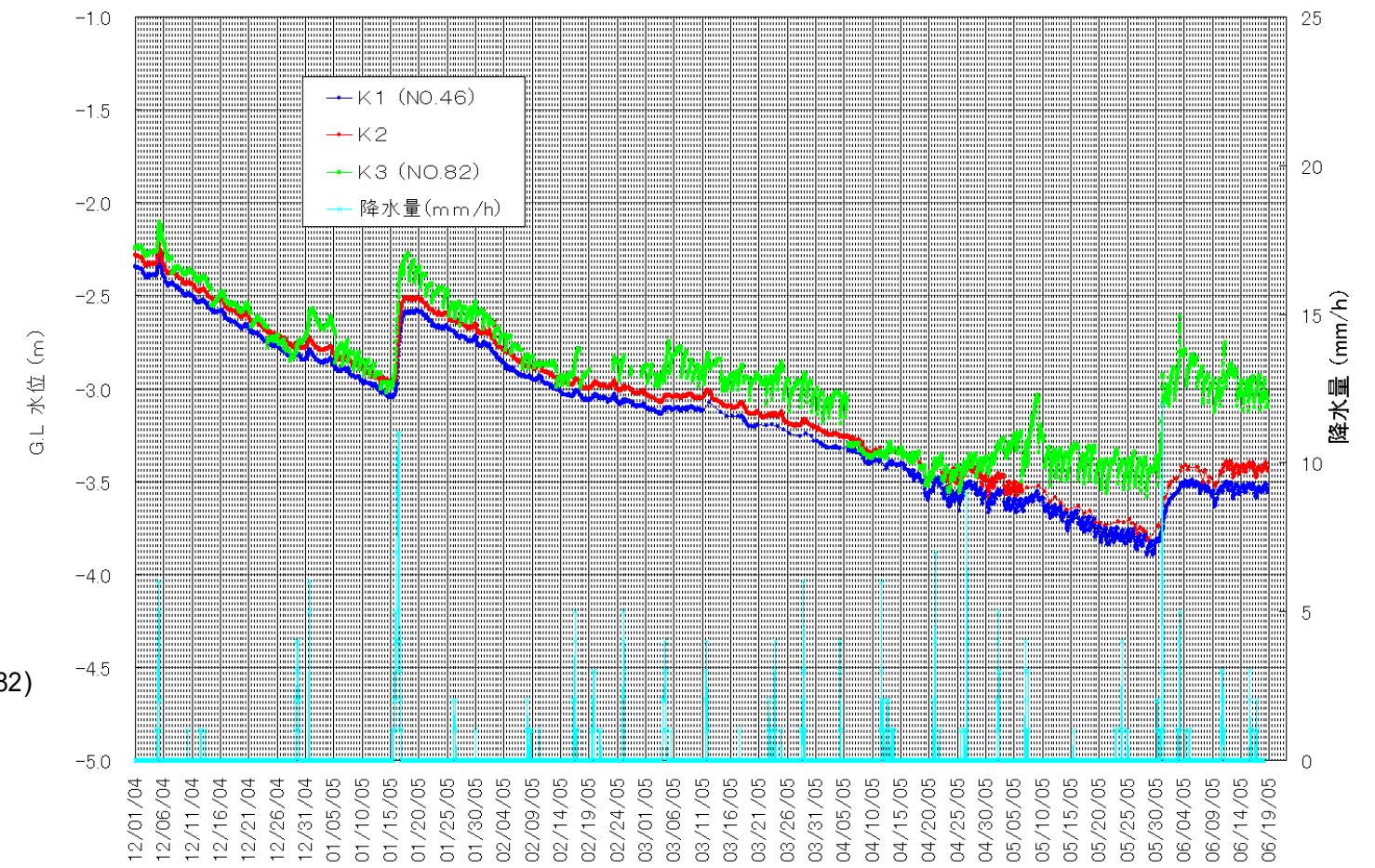
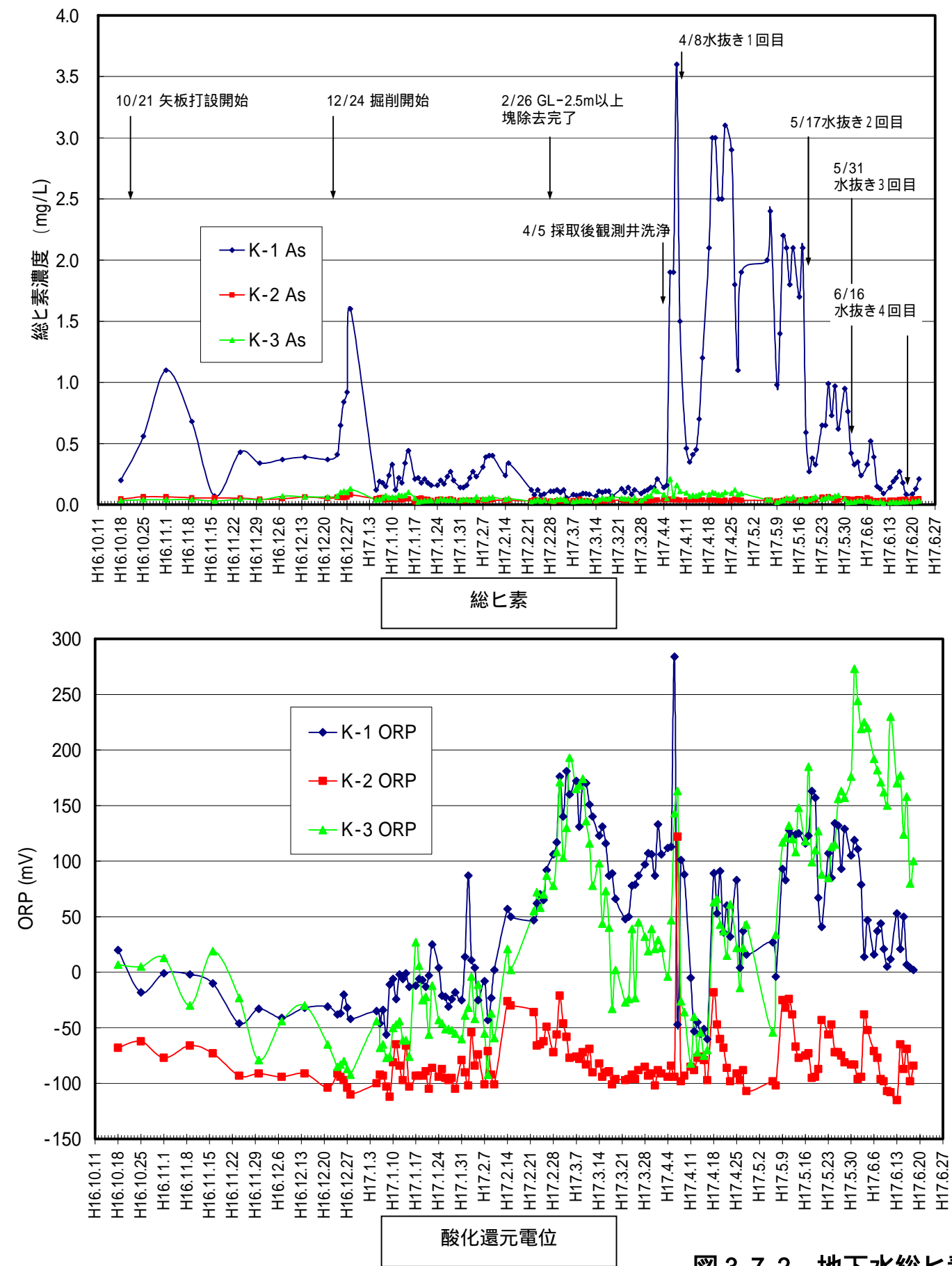


図 3.7.2 地下水レベルの推移 12月～

3.7.2 地下水総ヒ素等分析結果



pH

電気伝導度

水温

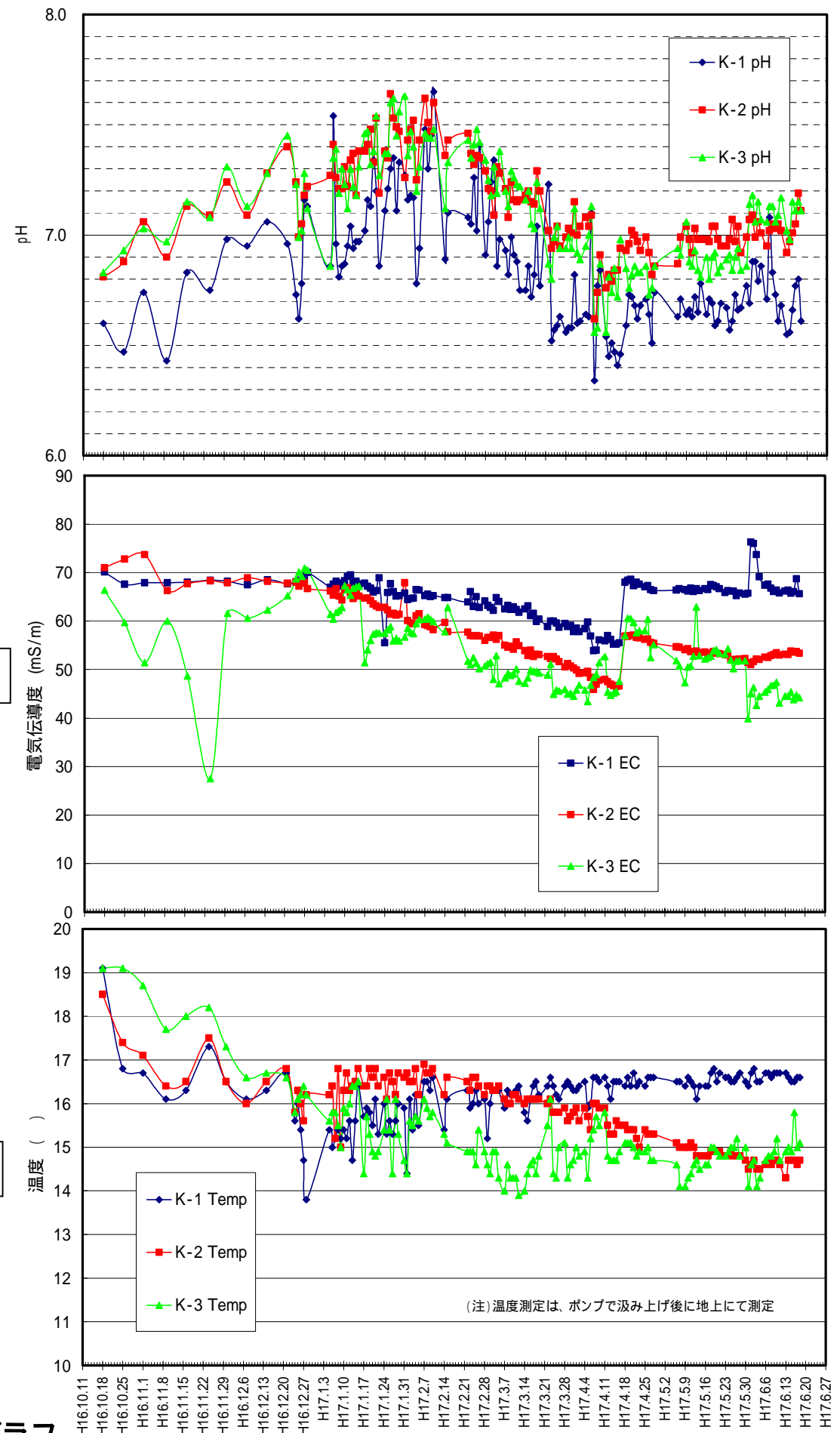


図 3.7.2 地下水総ヒ素等分析結果グラフ

表 3.7.1 観測井 有機ヒ素分析結果 (国立環境研究所報告書より)

試料名 採水日	K-1						K-2						K-3					
	総ヒ素濃度 ($\mu\text{g/L}$)	有機ヒ素濃度 (ヒ素換算値 $\mu\text{g-As/L}$)					総ヒ素濃度 ($\mu\text{g/L}$)	有機ヒ素濃度 (ヒ素換算値 $\mu\text{g-As/L}$)					総ヒ素濃度 ($\mu\text{g/L}$)	有機ヒ素濃度 (ヒ素換算値 $\mu\text{g-As/L}$)				
		PDMAO + As(III)	PMAA	DPMAO	PAA	DPAA		PDMAO + As(III)	PMAA	DPMAO	PAA	DPAA		PDMAO + As(III)	PMAA	DPMAO	PAA	DPAA
2004.12.27	1205.8	N.D.	N.D.	10.3	63.7	837.4	41.8	1.6	N.D.	7.1	1.99	7.9	120.6	3.0	1.7	12.2	N.D.	18.8
2005.01.06	113.2	N.D.	N.D.	12.3	N.D.	49.4	44.2	1.6	N.D.	6.0	1.56	5.9	39.0	2.2	1.1	7.8	N.D.	6.7
2005.1.12	178.8	N.D.	N.D.	13.5	28.3	89.5	41.6	1.4	N.D.	5.5	1.17	5.6	92.2	3.0	1.4	9.6	N.D.	12.8
2005.1.19	87.6	7.4	1.1	14.0	18.1	46.0	38.3	1.7	N.D.	5.2	N.D.	5.6	23.7	1.1	1.1	5.7	N.D.	4.3
2005.1.27	116.1	4.5	N.D.	12.0	9.8	52.4	34.4	1.7	N.D.	4.7	N.D.	5.1	45.2	2.0	1.1	6.8	N.D.	6.1
2005.2.15	249.3	6.3	2.8	11.3	46.9	147.6	31.4	1.5	N.D.	4.2	N.D.	5.3	65.4	2.9	1.1	10.5	N.D.	10.1
2005.2.2	117.4	4.7	1.6	12.5	11.2	53.1	38.3	1.4	N.D.	5.0	N.D.	5.7	53.0	2.2	1.2	8.5	N.D.	7.3
2005.2.23	68.4	4.7	N.D.	11.8	7.4	24.5	35.1	1.2	N.D.	4.5	N.D.	4.3	32.4	2.1	1.9	9.3	N.D.	6.3
2005.2.9	332.3	N.D.	N.D.	17.1	29.5	234.1	56.3	1.5	3.0	26.5	N.D.	8.8	82.1	4.6	5.8	31.1	N.D.	27.9
2005.3.1	68.4	5.0	1.3	12.3	9.4	23.5	35.6	1.2	N.D.	4.0	N.D.	4.6	36.8	2.3	1.0	7.7	N.D.	7.0
2005.3.15	66.7	4.9	N.D.	12.8	8.4	22.9	35.2	1.3	N.D.	3.8	N.D.	5.0	51.0	2.2	1.4	8.5	N.D.	14.1
2005.3.22	77.5	5.4	N.D.	N.D.	N.D.	22.9	34.5	1.2	N.D.	1.0	N.D.	5.0	61.0	3.5	5.0	N.D.	N.D.	22.9
2005.3.29	63.5	4.2	N.D.	13.8	4.2	26.5	38.2	1.0	N.D.	5.3	N.D.	5.9	67.0	3.1	4.2	18.9	N.D.	29.6
2005.3.8	50.1	4.7	N.D.	12.9	4.2	15.2	37.4	1.4	N.D.	3.7	N.D.	4.7	32.5	1.9	1.3	7.5	N.D.	5.8
2005.4.12	300.3	N.D.	N.D.	12.0	12.9	241.9	34.0	N.D.	N.D.	3.9	N.D.	5.5	80.1	2.6	2.4	11.7	N.D.	17.0
2005.4.19	2577.3	N.D.	N.D.	N.D.	178.2	1887.8	36.5	N.D.	N.D.	4.1	N.D.	5.3	140.0	3.0	N.D.	8.8	N.D.	16.3
2005.4.26	1678.0	N.D.	N.D.	N.D.	189.4	1254.8	39.5	1.0	2.9	15.5	N.D.	8.1	176.3	6.0	7.0	49.0	N.D.	110
2005.4.5	99.6	4.1	N.D.	13.4	6.4	53.0	34.4	N.D.	N.D.	4.3	N.D.	5.8	57.2	2.5	3.8	16.3	N.D.	24.1
2005.5.10	1123.6	N.D.	N.D.	22.6	163.1	874.3	37.9	N.D.	1.0	5.7	N.D.	6.5	51.6	2.9	4.7	19.8	N.D.	16.3
2005.5.17	1770.9	N.D.	N.D.	20.0	298.8	1296.0	36.2	N.D.	N.D.	5.4	N.D.	5.7	48.5	2.9	3.0	15.8	N.D.	10.7
2005.5.6	1461.6	N.D.	N.D.	19.3	N.D.	1143.9	36.3	N.D.	1.1	4.9	N.D.	5.5	52.6	3.2	4.9	25.5	N.D.	15.7