

Docket 40-8905

**From:** "Luthiger, Peter" <Peter.Luthiger@BHPBilliton.com>  
**To:** "Stephen Cohen" <SJC7@nrc.gov>  
**Date:** 1/10/06 3:56PM  
**Subject:** RE: RE: RAMC December 7 Submittal

Steve,

Here are RAMs responses to NMED question 1 and 2 regarding the dataset and the sulfate retardation factor, respectively.

Peter

1. Page 3-4, methodology for ACL. RAMC should provide the data sets rather than simply results in Table 1. The values presented in Table 1 and subsequent tables appear reasonable, but it is not possible to review which wells and data were selected for the statistical analysis.

RAM Response: See attached EXCEL File.

2. Page 5, 4th paragraph. RAMC cites a retardation factor for sulfate of 1.5. What is the basis for a retardation factor for sulfate?

RAM Response:

RAMC used a retardation factor of 1.5 as a qualitative acknowledgement of commonly accepted understanding of the relative transport behavior of chloride and sulfate. This acknowledgement is qualitative because, while we know that sulfate tends to move more slowly than chloride, the nature of saturation in the alluvial system at Ambrosia Lake (no prior saturation, multiple sources, etc.) provides no clear cut way to estimate a site specific retardation factor.

Chloride is typically assigned a retardation of 1.0 (i.e., no retardation) because it is an anion (negatively charged) that has little tendency to adsorb on sorption sites within the matrix soils. In addition, chloride does not precipitate as a mineral phase at chloride concentrations found in the alluvial system. Sulfate on the other hand, behaves quite differently. While sulfate is also an anion with little tendency to adsorb on mineral grains in soil, its concentration in groundwater is controlled by equilibrium with gypsum and calcite in alluvial soils.

Realizing that equilibrium may never be completely attained, a generalized explanation is as follows: seepage from the tailings impoundment contains high concentrations of sulfate at a relatively low pH. When low pH water encounters calcite (documented in the Alluvial ACL Application as typically exceeding 10 percent of each sample of alluvial soil) acidity is neutralized by the following reaction:

$$\text{H}^+ (\text{acid}) + \text{CaCO}_3 (\text{calcite}) = \text{Ca}^{2+} (\text{calcium ion}) + \text{HCO}_3^- (\text{bicarbonate ion})$$

Sulfate and calcium ion form the mineral gypsum, which precipitates and removes some sulfate from solution by the following equilibrium

reaction:



At this point the system will tend toward a sulfate concentration that is in equilibrium with gypsum, precipitating sulfate until that condition is achieved. As neutralized groundwater that originated as tailings seepage moves downgradient in alluvial soils, it falls below gypsum equilibrium concentrations and gypsum stops precipitating. However, this part of the Alluvium is more reducing than near source materials (Alluvial ACL Application) and to some extent, sulfate may be removed from solution as insoluble sulfide minerals.

The point to keep in mind is that, while processes described above remove sulfate from solution, results of attempts to quantify retardation of sulfate are ambiguous due to multiple sources of constituents in alluvial materials. Therefore RAMC chose the retardation factor as "a little bit slower" than chloride.

-----Original Message-----

From: Stephen Cohen [mailto:SJC7@nrc.gov]  
Sent: Monday, January 09, 2006 11:27 AM  
To: Luthiger, Peter  
Subject: RE: RE: RAMC December 7 Submittal

Peter:

I'll need to have a chat with Kevin, as well. My position is that once we approve the ACLs and the ground water monitoring network all other wells could be and probably should be decommissioned to complete the reclamation process. We will not have any provision in our license requiring RAM to obtain NMED permission to abandon wells.

Steve

>>> "Luthiger, Peter" <Peter.Luthiger@BHPBilliton.com> 01/09/06 12:57 PM

>>> >>>

Steve, the comments have been sent to Dan to get a quick answer.

What is NRC's position on NMED comment #5?

I will have a chat with Kevin on this comment as the current NMED permit for the mill site is limited to the alluvium, which is why we limited the wells to be eliminated to all except the alluvium.

Peter

-----Original Message-----

From: Stephen Cohen [mailto:SJC7@nrc.gov]  
Sent: Monday, January 09, 2006 7:47 AM  
To: Luthiger, Peter  
Subject: Fwd: RE: RAMC December 7 Submittal

Peter:

Sometimes I really hate e-mail. I was just notified today that the e-mail didn't go through. Anyway, attached are his comments. Comments 1, 2, 3, and 6 are the comments that we discussed. Sorry for the mixup.

Steve

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**CC:** <derskine@maximusa.com>

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**Subject:** RE: RE: RAMC December 7 Submittal  
**Creation Date:** 1/10/06 3:54PM  
**From:** "Luthiger, Peter" <Peter.Luthiger@BHPBilliton.com>

**Created By:** Peter.Luthiger@BHPBilliton.com

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MESSAGE

5721

01/10/06 03:54PM

20060110 Data Used in Non-Hazardous Alluvial ACL Calculations.xls 120832

Mime.822

173980

**Options**

**Expiration Date:**

None

**Priority:**

Standard

**Reply Requested:**

No

**Return Notification:**

None

**Concealed Subject:**

No

**Security:**

Standard

Monitor Well	Date	Cl (mg/l)	NO3 (mg/l)	Non Detect Nitrate	SO4 (mg/l)	TDS (mg/l)
30-03	18-Dec-97	244	0.05	0.1	207	2420
30-03	16-May-98	277	0.06		4920	2080
30-03	16-Nov-98	460	0.01	0.02	490	1470
30-03	12-Apr-99	500	0.93		410	1400
30-03	11-Oct-99	610	0.01	0.02	360	1440
30-03	28-Mar-00	590	0.03		250	1270
30-03	13-Nov-00	620	0.01	0.02	210	1190
30-03	01-Apr-01	630	0.02		250	1260
30-03	23-Sep-02	470	0.05		110	1060
30-04	03-May-95	1580	1.25	2.5	2460	5900
30-04	19-Oct-95	1590			2580	5960
30-04	06-Mar-96	1600	0.05	0.1	2600	5880
30-04	09-Sep-96	1570	0.05	0.1	2330	5650
30-04	05-May-97	1600	0.05	0.1	2410	6020
30-04	13-Nov-97	1600	0.05	0.1	2470	6050
30-04	16-May-98	1610	0.03		2470	6090
30-04	15-Nov-98	1390	0.01	0.02	2380	6090
30-04	12-Apr-99	1510	0.08		2250	6110
30-04	11-Oct-99	1500	0.03		2320	5970
30-04	27-Mar-00	1580	0.15		2290	5840
30-04	13-Nov-00	500	0.01	0.02	1610	3010
30-04	27-Mar-01	510	0.03		1650	2970
30-04	08-Oct-01	500	0.05	0.1	1510	2810
30-04	15-Apr-02	500	0.1	0.2	1420	2860
30-04	23-Sep-02	500	0.02		1380	2690
30-04	31-Mar-03	550	0.07		1300	2790
30-04	20-Oct-03	560	0.09		1460	2870
30-04	26-Apr-04	540	0.04		1290	2900
30-04	13-Sep-04	570	0.21		1370	3020
30-47	02-May-95	473	0.05	0.1	2210	3350
30-47	23-Oct-95	520			2350	4180
30-47	29-Feb-96	510	5.5		2300	4150
30-47	09-Sep-96	499	0.6		2080	3510
30-47	05-May-97	573	2.5	5	1860	3510
30-47	19-Nov-97	659	0.05	0.1	2380	3880
30-47	17-May-98	600	0.27		2320	4600
30-47	16-Nov-98	470	0.01	0.02	1760	3250
30-47	20-Apr-99	490	0.06		1680	3130
30-47	11-Oct-99	540	0.02		1500	3100
30-47	28-Mar-00	570	1.8		1490	3050
30-47	13-Nov-00	630	0.05		1380	2800
30-47	01-Apr-01	510	0.02		2680	4610
30-47	08-Oct-01	600	0.6		2390	4180
30-47	18-Mar-02	820	1	2	1750	3660
30-47	10-Sep-02	630	0.02		1980	3920
30-47	31-Mar-03	760	0.01	0.02	1840	4100
30-47	27-Oct-03	860	0.01		2040	4430
30-47	11-May-04	810	0.06		2190	4310
30-47	04-Oct-04	860	0.09		2260	4450
30-47	17-May-05	900	0.03		1870	4170

30-48	03-May-95	155	0.05	0.1	1400	1610
5-73	22-May-95	403	0.1	0.2	2040	3620
5-73	25-Oct-95	410			1950	3570
5-73	08-Mar-96	400	0.05	0.1	2000	3570
5-73	10-Sep-96	342	0.05	0.1	1710	3470
5-73	06-May-97	414	0.05	0.1	1950	3630
5-73	18-Nov-97	403	0.1		2180	3670
5-73	09-May-98	410	0.04		2120	3950
5-73	16-Nov-98	440	0.03		2060	4040
5-73	06-Apr-99	490	0.24		1960	4030
5-73	28-Sep-99	506	0.02		2040	3910
5-73	22-Feb-00	490	0.05		2110	3990
5-73	20-Nov-00	550	0.01	0.02	2180	4120
5-73	26-Mar-01	580	0.03		2230	4430
5-73	16-Oct-01	540	0.01	0.02	2170	4130
5-73	26-Feb-02	520			2190	4220
5-73	23-Sep-02	520	0.05		2120	3870
5-73	17-Mar-03	500	0.03		1930	3810
5-73	21-Oct-03	493	0.01		1910	3840
5-73	03-May-04	530	0.06		2040	4000
5-73	11-Oct-04	600	0.04		2010	3820
5-73	11-Oct-05	600	0.02		1810	3910
5-01	23-May-95	444	0.1	0.2	2340	3820
5-01	25-Oct-95	340			2270	3860
5-01	08-Mar-96	370	0.1		2300	3670
5-01	10-Sep-96	374	0.05	0.1	2230	3660
5-01	22-Apr-97	360	0.05	0.1	1710	3000
5-01	18-Nov-97	421	0.05	0.1	2040	3170
5-01	09-May-98	391	0.03		2120	3600
5-01	16-Nov-98	410	0.04		2090	3850
5-01	06-Apr-99	420	0.01	0.02	2050	3820
5-01	28-Sep-99	420	0.01	0.02	2110	3790
5-01	22-Feb-00	440	0.03		2150	3730
5-01	20-Nov-00	420	0.05	0.1	2190	3740
5-01	25-Mar-01	420	0.01	0.02	2230	3710
5-01	16-Oct-01	404	0.01	0.02	2250	3800
5-01	04-Mar-02	420	0.1	0.2	2270	3880
5-01	10-Sep-02	320	0.05		2410	4010
5-01	17-Mar-03	450	0.05		2290	3880
5-01	21-Oct-03	261	0.02		2630	3970
5-01	12-Oct-04	242	0.01	0.02	2480	3950
5-01	05-Oct-05	242	0.03		2310	3770
5-02	04-May-95	2070	0.9		2270	6080
5-02	26-Oct-95	2000			2010	5990
5-02	08-Mar-96	2000	1.8		2200	6130
5-02	10-Sep-96	1940	0.9		2140	6010
5-02	22-Apr-97	2000	1.9		2310	6520
5-02	18-Nov-97	1440	0.1		2320	5550
5-02	28-Sep-99	110	0.01	0.02	220	770
5-02	22-Feb-00	890	0.05		1120	3100
5-02	20-Nov-00	900	0.03		1350	3480
5-02	25-Mar-01	520	0.01	0.02	1530	3070

5-02	26-Feb-02	520	0.5	1	1780	3330
5-02	09-Sep-02	420	0.03		1890	3460
5-02	01-Apr-03	460	0.09		1980	3610
5-02	28-Oct-03	610	0.01		1890	3550
5-02	04-May-04	760	0.49		2270	4500
5-02	11-Oct-04	980	0.05	0.1	2320	4680
5-02	07-Jun-05	1070	0.06		2170	4810
5-02	11-Oct-05	1170	0.04		2280	5270
5-03	07-Mar-95	469	0.1		1490	2950
5-03	23-Aug-95	526	0.1	0.2	1410	2630
5-03	16-Feb-96	480	0.1		1350	2600
5-03	20-Aug-96	457	0.2		1250	2410
5-03	02-Apr-97	490	0.05	0.1	1220	2420
5-03	06-Nov-97	485	0.2		1510	2570
5-03	25-Apr-98	430	0.18		1700	3140
5-03	10-Nov-98	408	0.16		1960	3480
5-03	08-Feb-99	432	0.17		1790	3630
5-03	20-Sep-99	460	0.01	0.02	2030	3610
5-03	07-Feb-00	450	0.09		1790	3090
5-03	14-Aug-00	400	0.3		770	2290
5-03	25-Mar-01	400	0.04		480	2030
5-03	30-Jul-01	394			790	2280
5-03	28-Jan-02	381	0.04		1480	2740
5-03	12-Aug-02	460	0.01	0.02	1860	3500
5-03	11-Feb-03	397	0.1	0.2	1920	3550
5-03	23-Sep-03	422	0.06		2020	3630
5-03	16-Feb-04	391	0.12		1580	3200
5-03	09-Aug-04	470	0.09		1710	3360
5-03	24-Jan-05	400	0.01	0.02	1900	3560
5-03	15-Aug-05	390	0.16		2060	3690
5-04	04-May-95	474	0.1	0.2	3090	4800
5-04	25-Oct-95	447			2910	5560
5-04	13-Feb-96	510	0.05	0.1	2980	5000
5-04	10-Sep-96	461	0.05	0.1	2180	3650
5-04	22-Apr-97	691	0.05	0.1	1560	3320
5-04	18-Nov-97	99	0.05	0.1	261	472
5-04	09-May-98	133	0.06		230	510
5-04	16-Nov-98	150	0.01	0.02	160	450
5-04	06-Apr-99	250	0.06		500	1110
5-04	28-Sep-99	210	0.01	0.02	380	930
5-04	22-Feb-00	540	0.19		1050	2310
5-04	16-Nov-00	187	0.03		410	996
5-04	25-Mar-01	250	0.01	0.02	550	1160
5-04	16-Oct-01	268	0.04		570	1250
5-04	26-Feb-02	294	0.5	1	530	1200
5-04	09-Sep-02	310	0.01	0.02	570	1420
5-04	17-Mar-03	380	0.03		700	1600
5-04	21-Oct-03	470	0.03		996	2160
5-04	03-May-04	550	0.07		1160	2480
5-04	11-Oct-04	690	0.04		1140	2630
5-04	05-Oct-05	32	0.05		180	390
5-08	04-May-95	329	0.1	0.2	1570	2420

5-08	25-Oct-95	333			1510	2630
5-08	08-Mar-96	330	0.1		1500	2530
5-08	10-Sep-96	340	0.05	0.1	1490	2450
5-08	22-Apr-97	340	0.05	0.1	1350	2350
5-08	18-Nov-97	372	0.1		1460	2350
5-08	09-May-98	368	0.03		1540	2920
5-08	16-Nov-98	460	0.06		1710	3200
5-08	06-Apr-99	480	0.01	0.02	1650	3310
5-08	28-Sep-99	490	0.01	0.02	1660	3260
5-08	22-Feb-00	550	0.01	0.02	1670	3250
5-08	16-Nov-00	480	0.03		1920	3390
5-08	26-Mar-01	510	0.02		1880	3450
5-08	16-Oct-01	740	0.03		1230	3060
5-08	05-Mar-02	780			1240	2960
5-08	10-Sep-02	740	0.01	0.02	1140	2970
5-08	07-Apr-03	760	0.1		2240	5360
5-08	21-Oct-03	760	0.01		2490	4670
5-08	03-May-04	690	0.08		2550	4660
5-08	11-Oct-04	760	0.13		2350	4370
5-08	04-Oct-05	710	0.11		2050	4170
30-04	11-Oct-05	620	0.01	0.02	1330	2990
30-48	23-Oct-95	165			1390	2220
30-48	29-Feb-96	170	0.05	0.1	1360	2040
30-48	09-Sep-96	176	0.05	0.1	1370	2010
30-48	05-May-97	157	0.3		1040	1960
30-48	13-Nov-97	175	0.1		1240	1930
30-48	16-May-98	200	0.08		1190	2050
30-48	16-Nov-98	550	0.01	0.02	1370	3150
30-48	12-Apr-99	640	0.4		1270	3280
30-48	11-Oct-99	620	0.07		1410	3070
30-48	28-Mar-00	610	0.05		1340	3080
30-48	13-Nov-00	650	0.02	0.04	1720	3380
30-48	01-Apr-01	650	0.02		1800	3570
30-48	08-Oct-01	680	0.1		2000	3770
30-48	18-Mar-02	660	0.5	1	2010	3860
30-48	23-Sep-02	680	0.03		2170	3940
30-48	31-Mar-03	730	0.02		1960	3940
30-48	27-Oct-03	860	0.02		1600	4310
30-48	26-Apr-04	690	0.13		1880	4200
30-48	17-May-05	650	0.04		1790	3700
30-48	21-Sep-05	600	0.12		1780	3790
30-48	14-Sep-04	660	0.03		1880	4110
30-49	03-May-95	262	0.1	0.2	2320	3230
30-49	19-Oct-95	270			2270	3600
30-49	29-Feb-96	160	0.7		1400	2110
30-49	09-Sep-96	336	0.3		2060	3200
30-49	05-May-97	298	0.05	0.1	2320	3560
30-49	13-Nov-97	309	0.05	0.1	2370	3090
30-49	16-May-98	350	0.38		2410	4130
30-49	15-Nov-98	290	0.79		2680	4330
30-49	12-Apr-99	250	8.8		2280	4480
30-49	11-Oct-99	200	16.2		2960	4430



30-49	28-Mar-00	200	0.01	0.02		4520
30-49	13-Nov-00	180	14.4		2790	4390
30-49	01-Apr-01	200	5.6		2940	4510
30-49	08-Oct-01	410	0.3		2670	4310
30-49	18-Mar-02	550	0.1	0.2	2440	4280
30-49	23-Sep-02	550	0.07		2510	4410
30-49	31-Mar-03	650	0.14		2410	4510
30-49	20-Oct-03	570	0.22		2520	4550
30-49	26-Apr-04	630	0.73		2280	4530
30-49	13-Sep-04	640	0.01	0.02	2280	4600
30-49	31-May-05	730	0.21		2120	4640
30-49	21-Sep-05	660	0.21		2110	4470
31-05	11-May-95	1840	0.25	0.5	4240	9530
31-05	23-Oct-95	1880			4200	9460
31-05	11-Mar-96	2000	0.05	0.1	4400	9150
31-05	11-Sep-96	1950	0.05	0.1	4350	9260
31-05	12-May-97	1850	0.05	0.1	4260	9010
31-05	11-Nov-97	33	0.05	0.1	287	514
31-05	16-May-98	106	0.05		520	1220
31-05	16-Nov-98	940	0.29		2750	6060
31-05	20-Apr-99	1350	0.18		3550	8030
31-05	12-Oct-99	1400	0.24		4030	8710
31-05	27-Mar-00	570	0.04		1530	3230
31-05	13-Nov-00	600	0.02	0.04	1570	3020
31-05	01-Apr-01	580	0.19		1760	3370
31-05	09-Oct-01	630	0.2		2220	3990
31-05	15-Apr-02	600	0.1	0.2	2210	4160
31-05	24-Sep-02	590	0.04		2300	4070
31-05	25-Mar-03	530	0.05		2380	4600
31-05	21-Oct-03	460	0.02		2660	4680
31-05	07-Jun-04	460	0.05		2650	4830
31-05	14-Sep-04	479	0.07		2560	4640
31-05	01-Feb-05	470	0.01	0.02	2840	5160
31-05	11-Oct-05	490	0.06		3040	5550
31-61	07-Mar-95	565	0.8		3900	7010
31-61	23-Aug-95	565	1.5		4160	6730
31-61	16-Feb-96	540	0.7		4010	6720
31-61	20-Aug-96	535	1		4000	6400
31-61	02-Apr-97	514	0.6		3870	6700
31-61	06-Nov-97	357	14		4040	6770
31-61	25-Apr-98	490	1.13		3790	7120
31-61	10-Nov-98	113	6.6		4040	7060
31-61	08-Feb-99	590	24.3		3830	7200
31-61	24-Aug-99	950	6.2		4060	7880
31-61	01-Feb-00	580	4.2		3400	6500
31-61	14-Aug-00	530	1.5		3990	6910
31-61	06-May-01	550	1.64		3980	6930
31-61	06-May-01	549	1.28		3720	6810
31-61	31-Jul-01	540	1.21		3890	6940
31-61	31-Jul-01	518	1.56		3340	6640
31-61	28-Jan-02	520	1.2		4010	6280
31-61	13-Aug-02	580	1.58		3900	6940

31-61	18-Feb-03	570	1.4	3800	6580
31-61	22-Sep-03	364	1.3	3410	6570
31-61	16-Feb-04	500	1.09	3790	6640
31-61	09-Aug-04	530	1.35	3740	6640
31-61	24-Jan-05	640	1.19	3580	6540
31-61	15-Aug-05	640	1.38	3320	6270
31-63	02-May-95	3250	60.5	11600	21900
31-63	26-Oct-95	3020		10600	19000
31-63	12-Mar-96	2600	6.9	8200	13900
31-63	12-Sep-96	2630	0.8	7130	13100
31-63	08-May-97	2650	0.5	6860	9370
31-63	11-Nov-97	2670	14	6710	14400
31-63	16-May-98	3700	48	290	26100
31-63	17-Nov-98	2850	20.8	9690	19400
31-63	20-Apr-99	3130	12.2	9380	17400
31-63	11-Oct-99	3000	29.2	7750	16100
31-63	07-Mar-00	3250	53.1	10700	19700
31-63	14-Nov-00	2100	5.3	8200	15700
31-63	01-Apr-01	2600	21	8440	16300
31-63	23-Oct-01	2780		6610	13900
31-63	15-Apr-02	2720	0.4	6710	14400
31-63	24-Sep-02	2010	1.05	6510	13700
31-63	25-Mar-03		3.49	610	14300
31-63	20-Oct-03	2720	3.15	5730	13500
31-63	04-May-04	2590	1.3	6670	14700
31-63	05-Oct-04	2520	4.51	6670	14700
31-63	14-Feb-05	2570	6.01	6350	14800
31-65	02-May-95	1570	12.8	4540	9660
31-65	23-Oct-95	1510		4530	9730
31-65	11-Mar-96	1500	12.2	4800	9510
31-65	12-Sep-96	1570	11	4580	9550
31-65	08-May-97	1630	13	4730	10400
31-65	19-Nov-97	1510	8.3	4390	9560
31-65	16-May-98	1660	11.7	4500	10800
31-65	17-Nov-98	1510	12.3	4770	10800
31-65	20-Apr-99	1580	8.5	5150	11100
31-65	11-Oct-99	1400	7.9	5470	10800
31-65	21-Mar-00	1400	9.3	4250	11100
31-65	14-Nov-00	610	0.7	1810	3670
31-65	26-Mar-01	760	3.95	2700	5450
31-65	15-Oct-01	940	9.5	4000	7640
31-65	11-Mar-02	990	9.9	4350	8480
31-65	24-Sep-02	980	7.9	4740	8630
31-65	18-Mar-03	970	7.5	4820	8820
31-65	27-Oct-03	950	3.52	5040	9320
31-65	04-May-04	770	1.13	5230	9480
31-65	05-Oct-04	680	0.98	5430	9220
31-65	14-Feb-05	660	1.99	4970	9000
31-65	27-Sep-05	700	1.62	4980	8560
31-70	02-May-95	1670	9.3	5880	11300
31-70	23-Oct-95	1590		5400	11400
31-70	11-Mar-96	1500	0.5	5600	10800

31-70	12-Sep-96	1680	2.1		5740	11200
31-70	06-May-97	1610	2.5		5360	11100
31-70	11-Nov-97	1420	23		4940	10500
31-70	10-May-98	1370	0.38		5140	10300
31-70	16-Nov-98	1060	0.25		5130	10500
31-70	20-Apr-99	100	2.76		5080	10000
31-70	12-Oct-99	1040	0.29		5310	10300
31-70	27-Mar-00	840	18.1		5100	9740
31-70	14-Nov-00	1480	0.6		12000	18300
31-70	01-Apr-01	1500	0.57		9120	15500
31-70	23-Oct-01	1440			7800	12900
31-70	22-Apr-02	730	0.13		5330	9250
31-70	24-Sep-02	690	0.45		4910	8500
31-70	25-Mar-03	790	1.18		4540	9020
31-70	20-Oct-03	1120	0.37		6590	11500
31-70	10-May-04	6.9	9.9		4820	8860
31-70	28-Sep-04	630	3.97		4720	8150
31-70	24-May-05	810	47.3		4000	9270
31-71	02-May-95	403	0.7		2120	3600
31-71	19-Oct-95	380			1930	3530
31-71	11-Mar-96	410	0.3		2000	3590
31-71	12-Sep-96	415	3.4		1980	3530
31-71	06-May-97	503	1.4		1850	3770
31-71	11-Nov-97	490	1.5		1780	3500
31-71	20-Apr-98	520	1.18		1890	3910
31-71	15-Nov-98	730	74		1760	4740
31-71	20-Apr-99	700	13.7		1760	4150
31-71	12-Oct-99	700	13.1		1800	4120
31-71	27-Mar-00	590	4.55		1800	3930
31-71	13-Nov-00	650	0.4		1970	4160
31-71	27-Mar-01	650	0.03		2170	4220
31-71	22-Oct-01	700			2120	4210
31-71	22-Apr-02	620	0.65		2020	4240
31-71	24-Sep-02	570	0.11		2050	3960
31-71	25-Mar-03	570	0.09		1840	4150
31-71	20-Oct-03	670	0.1		2080	4070
31-71	04-May-04	540	0.18		1670	4110
31-71	14-Sep-04	476	0.3		1820	3880
31-71	01-Feb-05	460	0.17		1910	3890
32-01	25-Apr-95	1780	0.25	0.5	1620	5100
32-01	19-Oct-95	1550			1730	5000
32-01	07-Mar-96	1500	0.1		1800	4950
32-01	10-Sep-96	818	0.2		1730	5410
32-01	05-May-97	1000	0.2		2350	4880
32-01	12-Nov-97	892	0.1		2610	5230
32-01	17-May-98	1110	0.72		2510	5830
32-01	15-Nov-98	760	0.03		2610	5710
32-01	06-Apr-99	800	0.14		2560	5530
32-01	05-Oct-99	34	0.03		1940	2790
32-01	29-Feb-00	32	0.42		2080	2820
32-01	16-Nov-00	430	0.04		1740	2720
32-01	05-May-01	500	0.12		1480	2750

32-01	09-Oct-01	490	0.1		1250	2520
32-01	05-Mar-02	470	0.1	0.2	1110	2250
32-01	24-Sep-02	520	0.34		1610	3130
32-01	24-Mar-03	530	0.33		1290	3060
32-01	28-Oct-03	390	0.26		1620	3290
32-01	11-May-04	450	0.12		1580	3000
32-01	05-Oct-04	498	0.01	0.02	1750	3710
32-01	15-Feb-05	580	0.11		1890	4000
32-02	25-Apr-95	1320	0.25	0.5	3300	6880
32-02	26-Oct-95	1340			3360	7220
32-02	07-Mar-96	1400	0.05	0.1	3700	7140
32-02	10-Sep-96	1140	0.1		3730	7440
32-02	08-May-97	1250	0.05	0.1	3750	7440
32-02	12-Nov-97	1090	0.1		3610	7120
32-02	10-May-98	1160	0.07		3390	7670
32-02	15-Nov-98	920	0.01	0.02	3830	7870
32-02	06-Apr-99	930	0.01	0.02	3630	7380
32-02	05-Oct-99	36	0.05		140	350
32-02	27-Mar-00	840	0.03		170	410
32-02	14-Nov-00	161	0.1	0.2	470	990
32-02	01-Apr-01	330	0.04		980	2030
32-02	09-Oct-01	550	0.1		1550	3160
32-02	11-Mar-02	670			1950	4140
32-02	23-Sep-02	700	0.04		2310	4100
32-02	18-Mar-03	680	0.07		2240	4110
32-02	28-Oct-03	660	0.02		2200	4120
32-02	07-Jun-04	560	0.06		2250	4170
32-02	14-Sep-04	560	0.02		2130	4150
32-02	08-Feb-05	570	0.01	0.02	2140	4010
32-02	11-Oct-05	580	0.01	0.02	2150	4130
32-41	25-Apr-95	448	0.25	0.5	3160	5020
32-41	19-Oct-95	460			2920	4620
32-41	07-Mar-96	430	0.3		2900	4440
32-41	10-Sep-96	431	0.3		2790	4370
32-41	06-May-97	509	0.05	0.1	2510	4220
32-41	12-Nov-97	483	0.05	0.1	2320	3860
32-41	10-May-98	510	0.03		2190	4090
32-41	15-Nov-98	470	0.01	0.02	2500	4080
32-41	06-Apr-99	520	0.04		2310	4100
32-41	05-Oct-99	580	0.01	0.02	2410	4230
32-41	29-Feb-00	700	0.09		2590	4340
32-41	14-Nov-00	770	0.2		2810	5120
32-41	05-May-01	940	0.07		3000	5690
32-41	09-Oct-01	1480	0.1		3440	7240
32-41	05-Mar-02	1580			3350	7150
32-41	23-Sep-02	1270	0.01	0.02	2860	5890
32-41	08-Apr-03	1510	0.03		2250	5450
32-41	21-Oct-03	1470	0.06		2260	5640
32-41	27-Apr-04					
32-41	14-Sep-04	1650	0.13		2250	5790
32-41	08-Feb-05	1220	0.03		2010	3270
32-42	25-Apr-95	248	0.25	0.5	2450	3770

32-42	19-Oct-95	260			2430	3650
32-42	07-Mar-96	270	0.3		2300	3610
32-42	10-Sep-96	349	0.1		1780	3560
32-42	06-May-97	370	0.1		2240	3570
32-42	12-Nov-97	390	0.05	0.1	2140	3500
32-42	10-May-98	382	0.07		1870	3540
32-42	15-Nov-98	380	0.07		1890	3410
32-42	06-Apr-99	380	0.1		600	2270
32-42	05-Oct-99	360	6.5		900	2280
32-42	29-Feb-00	420	0.38		620	2120
32-42	14-Nov-00	430	0.1	0.2	10	1750
32-42	01-Apr-01	430	0.07		10	1800
32-42	09-Oct-01	430	0.2		200	1800
32-42	11-Mar-02	460	1.1		270	1890
32-42	24-Sep-02	450	0.28		710	2000
32-42	29-Apr-03	469	1.63		1830	3970
32-42	21-Oct-03	580	0.11		2170	4140
32-42	27-Apr-04	472	0.14		1870	3810
32-42	27-Sep-04	570	0.22		1810	3580
32-42	08-Feb-05	390	0.1		1730	3400
32-43	11-May-95	703	186		3010	6760
32-43	19-Oct-95	550			2900	6690
32-43	07-Mar-96	660	230		3100	6490
32-43	10-Sep-96	631	210		3000	6520
32-43	06-May-97	592	179		3050	6630
32-43	12-Nov-97	698	184		3000	6460
32-43	17-May-98	660	180		3370	6850
32-43	15-Nov-98	570	61		2060	4130
32-43	06-Apr-99	650	102		2670	5570
32-43	05-Oct-99	650	136		3000	6180
32-43	29-Feb-00	650	140		3200	6050
32-43	16-Nov-00	500	304		3350	7470
32-43	26-Mar-01	460	303		3050	7110
32-43	09-Oct-01	470	308		3110	7410
32-43	05-Mar-02	480	283		3330	7420
32-43	24-Sep-02	490	248		3020	6410
32-43	24-Mar-03	450	230		2480	7190
32-43	29-Dec-03	360	328		3170	6740
32-43	04-May-04	380	340		2730	7400
32-43	05-Oct-04	381	351		3150	7270
32-43	15-Feb-05	430	310		2910	6860
32-50	27-Apr-95	331	0.1	0.2	2690	4260
32-50	26-Oct-95	330			2540	4150
32-50	07-Mar-96	350	0.2		2500	3970
32-50	10-Sep-96	353	0.3		2440	3970
32-50	06-May-97	374	0.05	0.1	2420	3910
32-50	18-Nov-97	358	0.05	0.1	2290	3620
32-50	10-May-98	330	0.03		1180	3980
32-50	17-Nov-98	380	0.01	0.02	2190	3700
32-50	06-Apr-99	320	0.04		2060	3700
32-50	05-Oct-99	320	0.04		2120	3660
32-50	29-Feb-00	340	0.06		2190	3620

32-50	20-Nov-00	350	0.01	0.02	2020	3500
32-50	27-Mar-01	380	0.05		2260	3640
32-50	15-Oct-01	380	0.04		2140	3630
32-50	12-Mar-02	400	0.04		2210	3720
32-50	23-Sep-02	380	0.06		2290	3710
32-50	18-Mar-03	358	0.14		2190	3770
32-50	21-Oct-03	353	0.04		1820	3680
32-50	27-Apr-04	353	0.03		2060	3740
32-50	27-Sep-04	430	0.08		2160	3910
32-50	24-May-05	432	0.11		2010	3780
32-51	27-Apr-95	154	21.8		628	4820
32-51	19-Oct-95	156			3130	4800
32-51	07-Mar-96	160	21		3400	4690
32-51	10-Sep-96	179	9.7		3200	4970
32-51	22-May-97	187	3.6		3290	5000
32-51	12-Nov-97	194	10		3110	7230
32-51	17-May-98	168	8.9		2910	5410
32-51	15-Nov-98	230	8.8		3260	5320
32-51	06-Apr-99	200	3.77		3010	5250
32-51	05-Oct-99	210	3.8		3240	5120
32-51	28-Feb-00	220	2.29		3270	5040
32-51	20-Nov-00	210	3.87		3140	4990
32-51	05-May-01	220	3.12		3150	4980
32-51	15-Oct-01	230	2.51		3190	4870
32-51	12-Mar-02	240	3.2		3120	4900
32-51	23-Sep-02	210	2.89		3230	4850
32-51	18-Mar-03	210	4.64		3010	4900
32-51	21-Oct-03	253	4.18		3170	4830
32-51	04-May-04	220	4.4		3160	5050
32-51	28-Sep-04	237	7.1		3030	5040
32-51	31-May-05	244	5.29		2980	5120
32-51	05-Oct-05	270	8.07		3220	5110
32-52	27-Apr-95	147	0.1	0.2	2170	3160
32-52	19-Oct-95	145			2070	3140
32-52	07-Mar-96	140	0.05	0.1	2200	3100
32-52	10-Sep-96	167	0.05	0.1	2080	3080
32-52	22-Apr-97	167	0.05	0.1	2130	3150
32-52	12-Nov-97	177	0.05	0.1	2100	3050
32-52	16-May-98	145	0.05		2030	3300
32-52	15-Nov-98	190	0.01	0.02	2220	3370
32-52	06-Apr-99	165	0.04		2050	3350
32-52	05-Oct-99	150	0.03		2230	3470
32-52	28-Feb-00	160	0.09		2080	3110
32-52	16-Nov-00	91	0.02		2000	3200
32-52	27-Mar-01	150	0.03		2110	3140
32-52	15-Oct-01	171	0.14		2060	3150
32-52	12-Mar-02	169	0.01	0.02	2000	3060
32-52	23-Sep-02	167	0.07		1980	2970
32-52	18-Mar-03	181	0.06		1930	2970
32-52	21-Oct-03	185	0.04		2060	3150
32-52	27-Apr-04	174	0.01	0.02	1940	3140
32-52	27-Sep-04	193	0.01	0.02	1980	3150

32-52	31-May-05	207	0.06		1920	3200
32-52	05-Oct-05	206	0.01	0.02	1980	3130
32-57	09-May-95	187	0.5		4180	6680
32-57	26-Oct-95	198			4930	7090
32-57	06-Mar-96	197	0.4		4800	6810
32-57	10-Sep-96	200	0.3		4650	6810
32-57	05-May-97	196	0.05	0.1	4480	6730
32-57	18-Nov-97	213	0.05	0.1	4520	6200
32-57	17-May-98	280	2.34		4540	6910
32-57	17-Nov-98	280	0.41		4400	6520
32-57	12-Apr-99	230	1.57		4150	6550
32-57	11-Oct-99	380	0.5	1	3820	6100
32-57	28-Feb-00	560	1.54		3290	5560
32-57	21-Nov-00	670	1.12		2690	5140
32-57	06-May-01	700	2.75		2690	5080
32-57	22-Oct-01	830			2630	4890
32-57	12-Mar-02	800	2.1		2570	4920
32-57	10-Sep-02	680	1.61		2400	4680
32-57	01-Apr-03	810	1.95		2380	4710
32-57	28-Oct-03	900	3.95		2220	4650
32-57	11-May-04	780	0.66		2560	4930
32-57	12-Oct-04	870	1.1		2490	4760
32-57	13-Jun-05	860	3.21		2030	4800
32-57	28-Sep-05	880	4.6		2280	4950
32-58	27-Apr-95	1440	0.7		1980	5670
32-58	23-Oct-95	1430			1980	5450
32-58	06-Mar-96	1400	1.1		2000	5320
32-58	10-Sep-96	1150	1		1760	5300
32-58	22-Apr-97	998	0.5		2030	5060
32-58	18-Nov-97	617	0.3		2070	4510
32-58	16-May-98	460	0.13		2160	4490
32-58	17-Nov-98	500	0.09		2190	4270
32-58	06-Apr-99	430	0.04		2120	4270
32-58	28-Sep-99	433	0.03		2230	4170
32-58	29-Feb-00	420	0.02		2330	4130
32-58	16-Nov-00	410	0.28		2240	4240
32-58	25-Mar-01	450	0.04		2260	4230
32-58	15-Oct-01	480	0.02		2210	4140
32-58	05-Mar-02	490			2190	4260
32-58	23-Sep-02	510	0.02		2240	4030
32-58	18-Mar-03	420	0.02		2120	4100
32-58	27-Oct-03	530	0.01		2130	4230
32-58	27-Apr-04	490	0.01	0.02	2000	4130
32-58	28-Sep-04	470	0.01	0.02	2030	3800
32-58	31-May-05	570	0.04		1950	4100
32-58	11-Oct-05	570	0.01	0.02	1950	4200
32-59	07-Mar-95	452	0.1	0.2	1820	3860
32-59	23-Aug-95	479	0.1	0.2	1970	3820
32-59	16-Feb-96	430	0.05	0.1	1880	3640
32-59	11-Sep-96	403	3.2		1890	3570
32-59	02-Apr-97	436	0.05	0.1	1930	3900
32-59	06-Nov-97	233	0.3		2090	3720

32-59	25-Apr-98	380	0.25		2000	4000
32-59	30-Nov-98	430	0.04		2100	4030
32-59	08-Feb-99	414	0.51		1610	4030
32-59	31-Aug-99	390	0.07		1930	4110
32-59	07-Feb-00	430	0.05		2250	4100
32-59	14-Aug-00	390	0.05	0.1	2140	4160
32-59	25-Mar-01	400	0.01	0.02	2320	4160
32-59	30-Jul-01	410			2120	4150
32-59	28-Jan-02	419	0.02		2120	3990
32-59	12-Aug-02	510	0.06		2010	4080
32-59	11-Feb-03	530	0.09		1900	4000
32-59	22-Sep-03	445	0.07		2110	4100
32-59	16-Feb-04	432	0.24		2010	4030
32-59	09-Aug-04	450	0.12		2050	4130
32-59	24-Jan-05	460	0.14		1960	4120
32-59	15-Aug-05	530	0.08		1920	4000
32-60	09-May-95	548	16.3		4200	7030
32-60	19-Oct-95	560			3920	6720
32-60	11-Mar-96	710	12.6		4100	7230
32-60	12-Sep-96	673	11.9		4080	7080
32-60	08-May-97	810	25		4100	7380
32-60	13-Nov-97	816	24		3760	4880
32-60	17-May-98	770	27.6		3980	8050
32-60	17-Nov-98	390	10.5		4100	7480
32-60	20-Apr-99	660	7.9		3890	7240
32-60	11-Oct-99	820	13.6		3890	7260
32-60	21-Mar-00	640	1.91		1890	3220
32-60	20-Nov-00	770	15.2		4020	7440
32-60	05-May-01	570	8.3		4180	7540
32-60	23-Oct-01	700			3990	7100
32-60	15-Apr-02	630	7.3		4030	7160
32-60	10-Sep-02	600	8.1		4030	7310
32-60	25-Mar-03	690	5.53		3830	7440
32-60	28-Oct-03	770	7		3990	7240
32-60	11-May-04	650	6.7		3980	6940
32-60	05-Oct-04	610	4.18		3880	7140
32-60	14-Feb-05	650	4.07		3830	7220
32-60	27-Sep-05	690	6.15		3820	7050
32-69	27-Apr-95	77	0.01	0.02	299	
32-69	19-Oct-95	460			1340	2660
32-69	07-Mar-96	550	0.2		1300	2890
32-69	10-Sep-96	507	0.3		1350	2950
32-69	12-May-97	530	0.4		1250	2840
32-69	12-Nov-97	588	0.4		1220	2910
32-69	09-May-98	600	0.56		1350	3170
32-69	15-Nov-98	570	0.84		1350	3030
32-69	06-Apr-99	580	0.6		1410	3280
32-69	05-Oct-99	580	0.82		1530	3260
32-69	29-Feb-00	600	0.81		1660	3360
32-69	14-Nov-00	600	0.9		1570	3350
32-69	05-May-01	580	1.54		1960	3860
32-69	09-Oct-01	600	0.5		1850	3690



32-69	11-Mar-02	550	0.56		1670	3540
32-69	23-Sep-02	418	0.33		1680	3090
32-69	07-Apr-03	400	0.2		1490	3110
32-69	21-Oct-03	434	0.24		1770	3290
32-69	27-Apr-04	410	0.23		1850	3640
32-69	14-Sep-04	451	0.76		1860	3600
32-69	01-Feb-05	410	0.14		1880	3750
32-72	09-May-95	490	0.1	0.2	1850	3990
32-72	19-Oct-95	510			1930	3360
32-72	11-Mar-96	490	0.05	0.1	1900	3660
32-72	12-Sep-96	533	0.1		1900	3710
32-72	08-May-97	529	0.2		1770	3740
32-72	13-Nov-97	595	1		1500	3260
32-72	17-May-98	700	4.26		1600	3790
32-72	17-Nov-98	800	4.24		1630	3800
32-72	20-Apr-99	710	2.69		1690	3960
32-72	05-Oct-99	720	5.6		1810	4120
32-72	21-Mar-00	820	27.7		1850	4560
32-72	14-Nov-00	800	22.2		2040	4590
32-72	26-Mar-01	830	25.1		2030	4730
32-72	22-Oct-01	770			1910	4380
32-72	16-Apr-02	760	15.4		2080	4660
32-72	10-Sep-02	640	8.4		2030	4600
32-72	24-Mar-03	690	16.9		1910	4630
32-72	27-Oct-03	810	5.2		2050	4520
32-72	27-Apr-04	740	13		2080	4710
32-72	28-Sep-04	570	12.4		2210	4840
32-72	06-Jun-05					
32-72	27-Sep-05	690	6.11		2310	4680
AW-1	22-May-95	502	4.3		2800	4570
AW-1	19-Oct-95	530			2860	5080
AW-1	06-Mar-96	630	7		2400	5300
AW-1	10-Sep-96	597	5.3		1990	3810
AW-1	06-May-97	676	2.7		1860	3800
AW-1	13-Nov-97	577	2.1		1790	3610
AW-1	16-May-98	570	1.91		1700	3770
AW-1	15-Nov-98	550	2.05		1740	3720
AW-1	12-Apr-99	590	1.86		1660	3680
AW-1	11-Oct-99	640	1.96		1710	3760
AW-1	27-Mar-00	610	1.99		1740	3750
AW-1	13-Nov-00	480	0.3		1750	3410
AW-1	27-Mar-01	500	0.52		1830	3430
AW-1	06-May-01	500	1.29		1790	3440
AW-1	08-Oct-01	500	0.4		1690	3380
AW-1	18-Mar-02	520	0.1	0.2	1730	3370
AW-1	23-Sep-02	520	0.55		180	3390
AW-1	25-Mar-03	510	0.92		1620	3480
AW-1	20-Oct-03	490	0.8		1840	3510
AW-1	26-Apr-04	437	0.77		1770	3650
AW-1	13-Sep-04	473	0.75		1800	3650
AW-1	17-May-05	500	0.75		1750	3700
AW-1	11-Oct-05	490	0.85		1780	3760

AW-2	11-May-95	179	1.4		2080	3610
AW-2	02-Nov-95	202			2220	3770
AW-2	07-Mar-96	200	1.3		2200	3510
AW-2	10-Sep-96	225	0.9		2160	3550
AW-2	22-Apr-97	178	0.7		2240	3670
AW-2	12-Nov-97	174	0.6		2210	3470
AW-2	16-May-98	210	0.95		1960	3900
AW-2	15-Nov-98	220	0.17		2280	3860
AW-2	06-Apr-99	180	0.37		2210	4020
AW-2	05-Oct-99	200	0.03		2310	3960
AW-2	28-Feb-00	210	0.35		2370	3940
AW-2	16-Nov-00	220	0.04		2260	4030
AW-2	27-Mar-01	360	0.09		2500	3950
AW-2	15-Oct-01	247	0.22		2410	3990
AW-2	12-Mar-02	260	0.34		2380	4030
AW-2	23-Sep-02	279	0.19		2350	3920
AW-2	18-Mar-03	254	0.026		2300	3980
AW-2	28-Oct-03	257	0.01		2300	4030
AW-2	27-Apr-04	250	0.24		2160	4000
AW-2	28-Sep-04	247	0.03		2220	4050
AW-2	31-May-05	212	0.11		2220	4020
AW-2	05-Oct-05	228	0.03		2240	3930
D-4	19-Oct-95	4900			35	6340
D-4	12-Sep-96	5050	6		39	7290
D-4	18-Dec-97	7110	0.25	0.5	93	8700
D-4	11-Oct-99	6000	4		30	8780
D-4	07-Mar-00	4900	0.08		10	7690
D-4	21-Nov-00	5170	1	2	10	7720
D-4	10-Sep-02	3340	0.5	1	50	8990
E-5	10-May-95	2220	0.25	0.5	3820	10600
E-5	19-Oct-95	2440			4260	9600
E-5	12-Mar-96	2300	0.5		4300	10500
E-5	12-Sep-96	2400	1		7020	11800
E-5	08-May-97	1850	0.05	0.1	5080	11100
E-5	18-Nov-97	2020	0.05	0.1	4260	9540
E-5	17-Nov-98	2100	0.21		4210	10800
E-5	11-Oct-99	2100	0.8		4550	10400
E-5	07-Mar-00	2140	0.15		4260	10400
E-5	20-Nov-00	2200	1	2	4210	10700
E-5	05-May-01	2200	1.03		4480	10600
E-5	18-Mar-02	2260	1	2	4190	10000
E-5	10-Sep-02	1910	0.1	0.2	4100	10500
E-5	24-Mar-03	2440	0.1	0.2	3930	10600
E-5	28-Oct-03	2850	0.61		4270	10900
E-5	10-May-04	2600	0.29		4400	10900
E-5	11-Oct-04	2920	0.6			
E-5	07-Jun-05	2950	0.28		3660	10500
S-12	10-May-95	2130	1		5330	12400
S-12	26-Oct-95	2290			5860	10400
S-12	11-Mar-96	1600	0.1		5500	10400
S-12	12-Sep-96	1470	0.05	0.1	4980	9710
S-12	08-May-97	1120	0.2		4910	9830

S-12	13-Nov-97	873	0.05	0.1	4300	7520
S-12	09-May-98	1010	0.42		4650	8820
S-12	17-Nov-98	990	0.08		4350	8630
S-12	20-Apr-99	1160	0.1		4730	9400
S-12	11-Oct-99	740	0.8		3740	6990
S-12	21-Mar-00	860	0.21		3020	6340
S-12	14-Nov-00	1260	0.19		4910	9830
S-12	05-May-01	1020	0.3		4790	9280
S-12	15-Apr-02	1070	0.2		4820	9210
S-12	10-Sep-02	870	0.23		4650	9010
S-12	25-Mar-03	900	0.13		4170	8780
S-12	28-Oct-03	870	0.07		4520	8690
S-12	11-May-04	810	0.38		4230	7830
S-12	05-Oct-04	850	0.12		4360	8180
S-12	15-Feb-05	780	0.47		3990	7360
S-12	27-Sep-05	1030	1.08		3840	8540
S-9	10-May-95	2150	0.25	0.5	3570	9180
S-9	26-Oct-95	2410			4500	10600
S-9	11-Mar-96	2400	0.2		4600	10400
S-9	12-Sep-96	2430	0.3		5150	11100
S-9	12-May-97	2460	1.3		5050	11500
S-9	13-Nov-97	2320	0.05	0.1	4300	10200
S-9	09-May-98	2480	0.05		4730	10700
S-9	17-Nov-98	2360	0.01	0.02	4460	10600
S-9	20-Apr-99	2360	0.06		4570	11300
S-9	28-Sep-99	1980	0.01	0.02	4430	10300
S-9	21-Mar-00	2400	0.03		4160	10600
S-9	20-Nov-00	2250	0.01	0.02	4110	10100
S-9	26-Mar-01	2300	0.01	0.02	4100	10200
S-9	23-Oct-01	2410			4070	9800
S-9	18-Mar-02	2430	0.1	0.2	4320	10000
S-9	10-Sep-02	1510	0.01	0.02	4210	10400
S-9	24-Mar-03	2450	0.03		4070	10100
S-9	28-Oct-03	2590	0.04		2330	10300
S-9	10-May-04	1920	0.33		4410	10700
S-9	28-Sep-04	2300	0.03		4080	10600
S-9	31-May-05	2360	0.04		4100	10200
S-9	27-Sep-05	2400	0.13		4090	10500