

*Appendix N1 Cumulative Statistics on Exceedances*

		Total No. recorded in this reporting month	Total No. recorded since project commencement
1-Hr TSP	Action	0	0
	Limit	0	0
24-Hr TSP	Action	2	2
	Limit	0	0
Noise	Action	0	0
	Limit	0	0
Water Quality	Action	0	1
	Limit	0	0

*Appendix N2 Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions*

Reporting Period	Cumulative Statistics		
	Complaints	Notifications of Summons	Successful Prosecutions
This Reporting Month (Dec 2013)	0	0	0
Total No. received since project commencement	1	0	0

Email  
message

**Environmental  
Resources  
Management**

**To** ENVIRON - Hong Kong, Limited (ENPO)

**From** ERM- Hong Kong, Limited

**Ref/Project number** Contract No. HY/2012/07 Tuen Mun–Chek Lap  
Kok Link–Southern Connection Viaduct Section

**Subject** Notification of Exceedance for Air Quality  
Impact Monitoring

**Date** 8 January 2014

16/F DCH Commercial Centre,  
25 Westlands Road  
Quarry Bay, Hong Kong  
Telephone: (852) 2271 3113  
Facsimile: (852) 2723 5660  
E-mail: jovy.tam@erm.com



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Dear Sir or Madam,

Please find attached the Notification of Exceedance (NOE) of the following  
Log no.:

0215660\_13December2013\_24hrTSP\_Station ASR8  
0215660\_13December2013\_24hrTSP\_Station ASR8A

recorded on 19 December 2013.

Regards,

Mr Jovy Tam  
Environmental Team Leader

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ERM-Hong Kong, Limited

CONTRACT NO. HY/2012/07  
 TUEN MUN – CHEK LAP KOK LINK –  
 SOUTHERN CONNECTION VIADUCT SECTION

*Air Quality Impact Monitoring*  
 Notification of Exceedance

<b>Log No.</b>	0215660_13December2013_24hrTSP_Station ASR8A 0215660_13December2013_24hrTSP_Station ASR8 [Total No. of Exceedances = 2]	
<b>Date</b>	13 December 2013 (Measured) 19 December 2013 (Laboratory results received by ERM)	
<b>Monitoring Station</b>	ASR8, ASR8A	
<b>Parameter(s) with Exceedance(s)</b>	24-hr TSP	
<b>Action Levels</b>	24-hr TSP ( $\mu\text{g}/\text{m}^3$ )	178
<b>Limit Levels</b>	24-hr TSP ( $\mu\text{g}/\text{m}^3$ )	260
<b>Measured Levels</b>	Action Level Exceedance is observed at ASR8A ( $210 \mu\text{g}/\text{m}^3$ ) during 14:36 – 14:36 hrs next day. Action Level Exceedance is observed at ASR1 ( $205 \mu\text{g}/\text{m}^3$ ) during 14:46 – 14:46 hrs next day.	
<b>Works Undertaken (at the time of monitoring event)</b>	On 13 December 2013, only tree felling works were being undertaken at Works Area 2, no construction works were being conducted at Works Area 4 and near Pak Mong.	
<b>Possible Reason for Action or Limit Level Exceedance(s)</b>	<p>The exceedances are unlikely to be due to the Project, in view of the following:</p> <ul style="list-style-type: none"> <li>• According to the construction diary provided by the Contractor, tree felling works were being undertaken in WA2 while no construction works were being undertaken in WA4 and near Pak Mong.</li> <li>• With reference to the recorded wind direction and wind speed, wind was blowing to northwesterly and northeasterly direction in daytime (ranged between <math>260^\circ</math> and <math>70^\circ</math>, and wind speed ranged from 0.02 to 1.07 m/s) during the period of observed 24-hr TSP exceedances. While wind direction was changed to southerly (ranged between <math>111^\circ</math> and <math>210^\circ</math> and wind speed ranged from 0.02 to 0.03 m/s) between 03:30 and 06:30 on 14 December 2013 when no construction activities were being carried out. Stations ASR8A and ASR8 are located upstream of the major construction activities at the corresponding works area during daytime, thus they should not be affected by the dust, if any, generated by the concerned construction activities.</li> <li>• According to the air quality monitoring recorded by the closest EPD air monitoring station in Tung Chung on 13 and 14 December 2013, the average Respirable Suspended Particulates (RSP) from 14:00 on 13 December 2013 to 14:00 on 14 December 2013 showed a relatively higher value (RSP = <math>142 \mu\text{g}/\text{m}^3</math>) compared to that of 12 December (RSP = <math>93 \mu\text{g}/\text{m}^3</math>) and 15 December 2013 (RSP = <math>35 \mu\text{g}/\text{m}^3</math>). The observed exceedances could be resulting from the area-wide scale pollution in Hong Kong.</li> <li>• As stated in the EIA report (Section 4.2.2), both Hong Kong International Airport and the North Lantau transport corridor would be the key air pollution sources for this area, thus the exceedances may be also contributed cumulatively by the traffic emission and anthropogenic activities within Tung Chung Area.</li> </ul>	
<b>Actions Taken / To Be Taken</b>	The Contractor was reminded to ensure all dust mitigating measures are provided at all Works Area of this Project. The ET will monitor for future trends in exceedances.	
<b>Remarks</b>	The monitoring results, the locations of air quality monitoring stations and wind data are attached.	

**Key**

- Original Monitoring Station
- Alternative Monitoring Station
- Site Boundary

AQMS	X	Y
ASR9A	815847.40	818508.64
ASR9C	816399.52	818946.65
ASR8	815059.45	817488.99
ASR8A	815856.14	818118.14

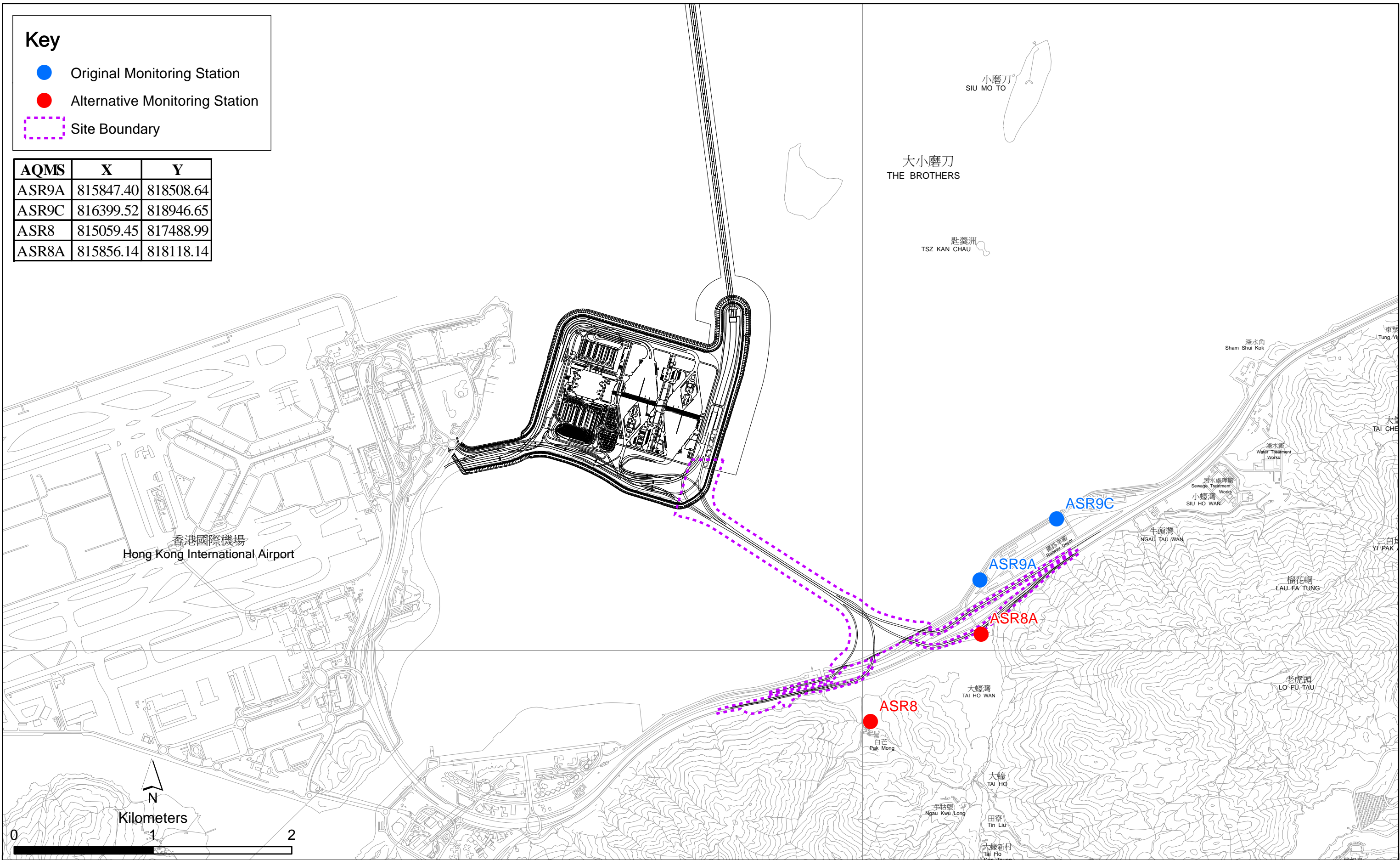


Figure 2.1

Locations of Air Quality Monitoring Stations

**24-hour TSP Monitoring Results at Air Quality Monitoring Station ASR8A**

Project	Works	Date (yyyy-mm-dd)	Station	Time (hh:mm, 24hour)	Parameter	Results (ug/m3)	Action Level (ug/m3)	Limit Level (ug/m3)
TMCLKL	HY/2012/07	2013/12/03	ASR8A	11:26	24-hr TSP	93	178	260
TMCLKL	HY/2012/07	2013/12/09	ASR8A	11:16	24-hr TSP	161		
TMCLKL	HY/2012/07	2013/12/13	ASR8A	14:36	24-hr TSP	210		
TMCLKL	HY/2012/07	2013/12/19	ASR8A	11:36	24-hr TSP	80		
TMCLKL	HY/2012/07	2013/12/24	ASR8A	11:06	24-hr TSP	136		
TMCLKL	HY/2012/07	2013/12/30	ASR8A	11:06	24-hr TSP	137		

Average 136  
 Min. 80  
 Max. 210

**24-hour TSP Monitoring Results at Air Quality Monitoring Station ASR8**

Project	Works	Date (yyyy-mm-dd)	Station	Time (hh:mm, 24hour)	Parameter	Results (ug/m3)	Action Level (ug/m3)	Limit Level (ug/m3)
TMCLKL	HY/2012/07	2013/12/03	ASR8	11:36	24-hr TSP	102	178	260
TMCLKL	HY/2012/07	2013/12/09	ASR8	11:28	24-hr TSP	151		
TMCLKL	HY/2012/07	2013/12/13	ASR8	14:46	24-hr TSP	205		
TMCLKL	HY/2012/07	2013/12/19	ASR8	11:46	24-hr TSP	90		
TMCLKL	HY/2012/07	2013/12/24	ASR8	11:18	24-hr TSP	83		
TMCLKL	HY/2012/07	2013/12/30	ASR8	11:18	24-hr TSP	152		

Average 131  
 Min. 83  
 Max. 205

Action Level Exceedance  
 Limit Level Exceedance

Date	Time (24hrs)	Wind Speed (m/s)	Wind Direction (degree)
2013/12/13	14:24:43	0.02	1.34
2013/12/13	14:29:43	0.02	278.44
2013/12/13	14:34:43	0.02	246.69
2013/12/13	14:39:43	0.02	-0.11
2013/12/13	14:44:43	0.02	267.30
2013/12/13	14:49:43	0.02	305.63
2013/12/13	14:54:43	0.02	163.68
2013/12/13	14:59:43	0.02	317.88
2013/12/13	15:04:43	0.02	359.67
2013/12/13	15:09:43	0.02	271.98
2013/12/13	15:14:43	0.02	269.30
2013/12/13	15:19:43	0.02	315.43
2013/12/13	15:24:43	0.02	268.86
2013/12/13	15:29:43	0.02	299.61
2013/12/13	15:34:43	0.02	300.06
2013/12/13	15:39:43	0.05	119.78
2013/12/13	15:44:43	0.02	243.79
2013/12/13	15:49:43	0.02	-0.11
2013/12/13	15:54:43	0.02	313.65
2013/12/13	15:59:43	0.02	245.01
2013/12/13	16:04:43	0.02	65.40
2013/12/13	16:09:43	0.02	323.01
2013/12/13	16:14:43	0.02	320.67
2013/12/13	16:19:43	0.02	264.96
2013/12/13	16:24:43	0.02	254.82
2013/12/13	16:29:43	0.02	294.93
2013/12/13	16:34:43	0.02	309.08
2013/12/13	16:39:43	0.02	259.39
2013/12/13	16:44:43	0.02	259.61
2013/12/13	16:49:43	0.02	235.88
2013/12/13	16:54:43	0.02	235.88
2013/12/13	16:59:43	0.02	235.88
2013/12/13	17:04:43	0.02	235.88
2013/12/13	17:09:43	0.02	270.42
2013/12/13	17:14:43	0.02	263.51
2013/12/13	17:19:43	0.02	238.55
2013/12/13	17:24:43	0.02	268.86
2013/12/13	17:29:43	0.02	268.64
2013/12/13	17:34:43	0.02	275.10
2013/12/13	17:39:43	0.02	259.16
2013/12/13	17:44:43	0.02	239.89
2013/12/13	17:49:43	0.02	287.47

2013/12/13	17:54:43	0.02	287.58
2013/12/13	17:59:43	0.02	211.81
2013/12/13	18:04:43	0.02	211.81
2013/12/13	18:09:43	0.03	211.92
2013/12/13	18:14:43	0.02	211.92
2013/12/13	18:19:43	0.02	250.03
2013/12/13	18:24:43	0.02	220.72
2013/12/13	18:29:43	0.02	246.57
2013/12/13	18:34:43	0.02	246.13
2013/12/13	18:39:43	0.02	248.80
2013/12/13	18:44:43	0.02	248.80
2013/12/13	18:49:43	0.02	248.91
2013/12/13	18:54:43	0.02	215.60
2013/12/13	18:59:43	0.02	269.30
2013/12/13	19:04:43	0.02	219.16
2013/12/13	19:09:43	0.02	219.39
2013/12/13	19:14:43	0.02	319.11
2013/12/13	19:19:43	0.02	283.01
2013/12/13	19:24:43	0.02	270.75
2013/12/13	19:29:43	0.06	212.70
2013/12/13	19:34:43	0.02	305.85
2013/12/13	19:39:43	0.02	320.56
2013/12/13	19:44:43	0.02	201.56
2013/12/13	19:49:43	0.02	272.53
2013/12/13	19:54:43	0.02	283.90
2013/12/13	19:59:43	0.02	254.71
2013/12/13	20:04:43	0.67	242.79
2013/12/13	20:09:43	0.02	221.39
2013/12/13	20:14:43	0.02	223.29
2013/12/13	20:19:43	0.12	283.79
2013/12/13	20:24:43	0.02	306.96
2013/12/13	20:29:43	0.02	239.00
2013/12/13	20:34:43	0.02	239.00
2013/12/13	20:39:43	0.02	268.97
2013/12/13	20:44:43	1.04	254.48
2013/12/13	20:49:43	0.03	266.30
2013/12/13	20:54:43	0.69	310.53
2013/12/13	20:59:43	0.06	173.59
2013/12/13	21:04:43	0.02	300.06
2013/12/13	21:09:43	0.02	278.22
2013/12/13	21:14:43	0.03	284.90
2013/12/13	21:19:43	0.06	283.68
2013/12/13	21:24:43	0.02	298.72

2013/12/13	21:29:43	0.02	285.46
2013/12/13	21:34:43	0.02	303.18
2013/12/13	21:39:43	0.02	278.66
2013/12/13	21:44:43	0.02	251.92
2013/12/13	21:49:43	0.02	302.28
2013/12/13	21:54:43	0.02	303.73
2013/12/13	21:59:43	0.02	259.28
2013/12/13	22:04:43	0.02	224.74
2013/12/13	22:09:43	0.02	334.82
2013/12/13	22:14:43	0.02	334.82
2013/12/13	22:19:43	0.02	334.82
2013/12/13	22:24:43	0.02	205.13
2013/12/13	22:29:43	0.02	205.01
2013/12/13	22:34:43	0.02	197.44
2013/12/13	22:39:43	0.02	197.55
2013/12/13	22:44:43	0.02	197.66
2013/12/13	22:49:43	0.02	197.66
2013/12/13	22:54:43	0.02	197.66
2013/12/13	22:59:43	0.02	197.66
2013/12/13	23:04:43	0.02	197.55
2013/12/13	23:09:43	0.02	197.66
2013/12/13	23:14:43	0.02	197.66
2013/12/13	23:19:43	0.02	197.66
2013/12/13	23:24:43	0.05	292.26
2013/12/13	23:29:43	0.02	252.14
2013/12/13	23:34:43	0.08	7.13
2013/12/13	23:39:43	0.02	294.71
2013/12/13	23:44:43	0.02	5.35
2013/12/13	23:49:43	0.02	303.62
2013/12/13	23:54:43	0.87	244.90
2013/12/13	23:59:43	1.07	267.63
2013/12/14	00:04:43	0.02	271.98
2013/12/14	00:09:43	0.02	247.69
2013/12/14	00:14:43	0.02	279.11
2013/12/14	00:19:43	0.02	271.42
2013/12/14	00:24:43	0.54	261.62
2013/12/14	00:29:43	0.02	236.10
2013/12/14	00:34:43	0.02	200.00
2013/12/14	00:39:43	0.02	200.00
2013/12/14	00:44:43	0.02	200.00
2013/12/14	00:49:43	0.02	200.11
2013/12/14	00:54:43	0.02	200.00
2013/12/14	00:59:43	0.02	200.00



2013/12/14	01:04:43	0.02	200.00
2013/12/14	01:09:43	0.02	200.11
2013/12/14	01:14:43	0.02	200.00
2013/12/14	01:19:43	0.02	302.17
2013/12/14	01:24:43	0.18	298.72
2013/12/14	01:29:43	0.73	346.07
2013/12/14	01:34:43	0.02	271.53
2013/12/14	01:39:43	0.17	264.74
2013/12/14	01:44:43	0.02	311.98
2013/12/14	01:49:43	0.02	195.88
2013/12/14	01:54:43	0.02	258.61
2013/12/14	01:59:43	0.02	233.09
2013/12/14	02:04:43	0.02	213.48
2013/12/14	02:09:43	0.23	254.82
2013/12/14	02:14:43	0.02	248.02
2013/12/14	02:19:43	0.02	326.35
2013/12/14	02:24:43	0.43	266.85
2013/12/14	02:29:43	0.21	361.34
2013/12/14	02:34:43	0.02	248.58
2013/12/14	02:39:43	0.66	274.09
2013/12/14	02:44:43	0.02	87.91
2013/12/14	02:49:43	0.02	155.77
2013/12/14	02:54:43	0.02	32.98
2013/12/14	02:59:43	0.02	32.87
2013/12/14	03:04:43	0.02	32.87
2013/12/14	03:09:43	0.02	32.87
2013/12/14	03:14:43	0.02	32.87
2013/12/14	03:19:43	0.02	32.87
2013/12/14	03:24:43	0.02	151.53
2013/12/14	03:29:43	0.02	151.53
2013/12/14	03:34:43	0.02	151.53
2013/12/14	03:39:43	0.02	151.53
2013/12/14	03:44:43	0.02	151.42
2013/12/14	03:49:43	0.02	151.42
2013/12/14	03:54:43	0.02	141.28
2013/12/14	03:59:43	0.02	141.28
2013/12/14	04:04:43	0.02	139.72
2013/12/14	04:09:43	0.03	129.69
2013/12/14	04:14:43	0.02	165.13
2013/12/14	04:19:43	0.02	165.13
2013/12/14	04:24:43	0.02	165.13
2013/12/14	04:29:43	0.02	165.24
2013/12/14	04:34:43	0.02	165.13

2013/12/14	04:39:43	0.02	165.13
2013/12/14	04:44:43	0.02	165.13
2013/12/14	04:49:43	0.02	174.71
2013/12/14	04:54:43	0.02	111.09
2013/12/14	04:59:43	0.02	178.38
2013/12/14	05:04:43	0.02	178.38
2013/12/14	05:09:43	0.02	178.38
2013/12/14	05:14:43	0.02	178.38
2013/12/14	05:19:43	0.02	178.38
2013/12/14	05:24:43	0.02	178.38
2013/12/14	05:29:43	0.02	178.38
2013/12/14	05:34:43	0.02	201.23
2013/12/14	05:39:43	0.02	201.23
2013/12/14	05:44:43	0.02	201.23
2013/12/14	05:49:43	0.02	201.23
2013/12/14	05:54:43	0.02	201.11
2013/12/14	05:59:43	0.02	201.23
2013/12/14	06:04:43	0.02	201.11
2013/12/14	06:09:43	0.02	201.23
2013/12/14	06:14:43	0.02	201.11
2013/12/14	06:19:43	0.02	201.23
2013/12/14	06:24:43	0.02	201.11
2013/12/14	06:29:43	0.02	136.71
2013/12/14	06:34:43	0.02	138.50
2013/12/14	06:39:43	0.02	138.50
2013/12/14	06:44:43	0.26	68.41
2013/12/14	06:49:43	0.02	27.74
2013/12/14	06:54:43	0.05	113.87
2013/12/14	06:59:43	0.02	102.06
2013/12/14	07:04:43	0.02	36.32
2013/12/14	07:09:43	0.02	47.58
2013/12/14	07:14:43	0.02	129.47
2013/12/14	07:19:43	0.02	215.93
2013/12/14	07:24:43	0.02	234.21
2013/12/14	07:29:43	0.02	234.09
2013/12/14	07:34:43	0.02	234.21
2013/12/14	07:39:43	0.02	234.21
2013/12/14	07:44:43	0.02	234.09
2013/12/14	07:49:43	0.02	234.21
2013/12/14	07:54:43	0.02	18.27
2013/12/14	07:59:43	0.26	53.15
2013/12/14	08:04:43	0.02	7.13
2013/12/14	08:09:43	0.02	152.42

2013/12/14	08:14:43	0.02	1.11
2013/12/14	08:19:43	0.08	360.22
2013/12/14	08:24:43	0.02	332.48
2013/12/14	08:29:43	0.02	45.13
2013/12/14	08:34:43	0.02	358.55
2013/12/14	08:39:43	0.02	33.31
2013/12/14	08:44:43	0.02	33.54
2013/12/14	08:49:43	0.02	41.34
2013/12/14	08:54:43	0.02	54.37
2013/12/14	08:59:43	0.02	54.37
2013/12/14	09:04:43	0.02	54.26
2013/12/14	09:09:43	0.02	54.37
2013/12/14	09:14:43	0.02	69.75
2013/12/14	09:19:43	0.02	126.69
2013/12/14	09:24:43	0.02	77.88
2013/12/14	09:29:43	0.02	87.35
2013/12/14	09:34:43	0.02	-0.45
2013/12/14	09:39:43	0.02	262.28
2013/12/14	09:44:43	0.02	348.30
2013/12/14	09:49:43	0.02	-0.33
2013/12/14	09:54:43	0.02	43.01
2013/12/14	09:59:43	0.02	345.74
2013/12/14	10:04:43	0.02	356.55
2013/12/14	10:09:43	0.12	-0.45
2013/12/14	10:14:43	0.02	359.55
2013/12/14	10:19:43	0.02	0.78
2013/12/14	10:24:43	0.02	-0.45
2013/12/14	10:29:43	0.02	25.52
2013/12/14	10:34:43	0.02	25.52
2013/12/14	10:39:43	0.02	277.33
2013/12/14	10:44:43	0.02	99.05
2013/12/14	10:49:43	0.02	68.41
2013/12/14	10:54:43	0.02	328.02
2013/12/14	10:59:43	0.02	53.70
2013/12/14	11:04:43	0.02	53.82
2013/12/14	11:09:43	0.02	53.82
2013/12/14	11:14:43	0.02	53.70
2013/12/14	11:19:43	0.02	-0.33
2013/12/14	11:24:43	0.02	-0.33
2013/12/14	11:29:43	0.02	-0.45
2013/12/14	11:34:43	0.02	0.11
2013/12/14	11:39:43	0.08	356.66
2013/12/14	11:44:43	0.02	353.65

2013/12/14	11:49:43	0.02	17.94
2013/12/14	11:54:43	0.02	68.97
2013/12/14	11:59:43	0.02	17.38
2013/12/14	12:04:43	0.02	17.38
2013/12/14	12:09:43	0.02	17.27
2013/12/14	12:14:43	0.02	49.92
2013/12/14	12:19:43	0.02	22.28
2013/12/14	12:24:43	0.02	207.35
2013/12/14	12:29:43	0.02	240.33
2013/12/14	12:34:43	0.02	40.00
2013/12/14	12:39:43	0.02	309.64
2013/12/14	12:44:43	0.02	212.92
2013/12/14	12:49:43	0.02	300.39
2013/12/14	12:54:43	0.02	352.87
2013/12/14	12:59:43	0.02	288.25
2013/12/14	13:04:43	0.02	303.40
2013/12/14	13:09:43	0.02	301.84
2013/12/14	13:14:43	0.02	353.54
2013/12/14	13:19:43	0.02	353.20
2013/12/14	13:24:43	0.02	338.27
2013/12/14	13:29:43	0.02	338.38
2013/12/14	13:34:43	0.02	175.71
2013/12/14	13:39:43	0.35	2.79
2013/12/14	13:44:43	0.02	351.31
2013/12/14	13:49:43	0.02	41.56
2013/12/14	13:54:43	0.02	23.73
2013/12/14	13:59:43	0.02	340.17
2013/12/14	14:04:43	0.02	339.61
2013/12/14	14:09:43	0.02	304.74
2013/12/14	14:14:43	0.02	342.40
2013/12/14	14:19:43	0.02	359.55
2013/12/14	14:24:43	0.02	356.10
2013/12/14	14:29:43	0.02	260.06
2013/12/14	14:34:43	0.02	1.45
2013/12/14	14:39:43	0.20	1.78
2013/12/14	14:44:43	0.24	289.58
2013/12/14	14:49:43	0.02	0.11