



## PIMA COUNTY

### ENVIRONMENTAL QUALITY

33 N. Stone Avenue, Suite 700  
Tucson, Arizona 85701-1429  
[www.pima.gov/deq](http://www.pima.gov/deq)

Ursula Kramer Nelson, P.E.  
Director

(520) 724-7400  
FAX (520) 838-7432

September 29, 2017

Freeport-McMoRan Sierrita, Inc.  
Attn: David Rhoades, General Manager – Sierrita Operations  
6200 W. Duval Mine Rd.  
Green Valley, AZ 85629

Sent by Email  
[David\\_Rhoades@fmi.com](mailto:David_Rhoades@fmi.com)

### OPPORTUNITY TO CORRECT - # 6067-0004I

Dear Mr. Rhoades,

The Pima County Department of Environmental Quality (PDEQ) conducted a full compliance evaluation inspection of the Freeport-McMoRan Sierrita, Inc. (FMSI) facility on August 9, 2017. The following deficiency of PDEQ Air Quality Operating Permit #6067 was identified during the inspection:

#### ATTACHMENT B

#### SPECIFIC CONDITIONS

#### VI. SPECIFIC REQUIREMENTS FOR THE FINE ORE CRUSHING OPERATION

##### B. Particulate Matter and Opacity Limits

##### 2. Air Pollution Control Requirements

a. *At all times, including periods of startup, shutdown, and malfunction, the Permittee shall, to the extent practicable, maintain and operate the secondary and tertiary crushing circuits and the associated cartridge dust collectors in a manner consistent with good air pollution control practice for minimizing particulate matter emissions.*

[40 CFR 60.11 (d), PCC 17.12.190.B& 17.12.350.A.3.e]

b. *The Permittee shall maintain and operate ancillary pollution control devices including spray bars, duct work and hoods used to capture particulate matter emissions, to meet the emission standards in Conditions III.B and VI.B.1.*

[PCC 17.12.180.A.2 & 17.12.350.A.3.e]

The PDEQ Air Program determined that an opportunity to correct the deficiency will be afforded to FMSI. Within **thirty (30)** days of the date of this letter, please submit to PDEQ a written response outlining the corrective actions taken to timely discover and repair holes and openings in the fine ore crushing air pollution control equipment and throughout the FMSI facility. The response shall include any plans or actions taken to prevent a recurrence of this deficiency in the future. If you have questions, please contact me at (520) 724-7400. PDEQ looks forward to working with you to achieve compliance.

Sincerely,



Dustin Fitzpatrick  
Air Compliance Manager

 Attachment: Compliance Determination Report 6067-0004I

cc: PDEQ File #: 6067-0004I



## **Compliance Determination Report**

**Tracking ID: 6067-0004I**

---

**Permit #:** 6067

**Source:** Freeport-McMoRan Sierrita, Inc.

**Location:** 6200 W. Duval Mine Road

**Date:** September 29, 2017

**Compliance Status:** Noncompliant

---

The Pima County Department of Environmental Quality (PDEQ) conducted a full compliance evaluation inspection of the Freeport-McMoRan Sierrita, Inc. (FMSI) facility on August 9 and 10, 2017 and provided an inspection report to FMSI on September 22, 2017. Several compliance deficiencies were identified during the inspection. Dust opacity and property boundary emission limitations and standards of Pima County Code and PDEQ Air Quality Operating Permit #6067 are implemented to reduce exposure to air pollution. Compliance deficiencies of these emission limitations and standards pose a risk to public health and safety through respiratory exposure and visibility reduction.

PDEQ staff observed dust generating from the Sierrita Tailing Impoundment on August 9, 2017, that visibly crossed Duval Mine Road and averaged 36% opacity as measured in accordance with EPA Method 9. PDEQ Air Quality Operating Permit #6067, Attachment B, XIX.B.1.a requires that FMSI not allow visible emissions from any fugitive source in excess of 20% opacity as measured in accordance with EPA Reference Method 9. Attachment B, II.E.1 requires that FMSI not allow diffusion of visible dust emissions beyond the property line within which the emissions become airborne and instructs that FMSI may be required to cease temporarily the activity or operation which is causing or contributing to the emissions until reasonably necessary and feasible precautions are taken. The dust emissions observed by PDEQ staff were generated from the northwest section of the Sierrita Tailing Impoundment where no active berm or road building was taking place. The operation of storing tailings cannot be ceased during windy conditions and adequate precautions are required to prevent visible diffusion of tailings dust beyond the property boundary.

Attachment B, II.E.2 advises that condition II.E.1 does not apply when wind speeds exceed twenty-five (25) miles per hour (using the Beaufort Scale of Wind-Speed Equivalents, or as recorded by the National Weather Service). The Beaufort Scale of Wind-Speed Equivalents was estimated to be a Beaufort number 4, gentle breeze, 8-12 miles per hour, by PDEQ staff during the period of the EPA Method 9 observation of the tailings dust from 3:53 pm to 4:01 pm. The wind data labeled Tailings\_COW Weather Data, which relays measurements taken from the

weather station located near the top southeast corner of the Sierrita Tailing Impoundment, provided by FMSI to support the August 11, 2017, Excess Emissions Report, detailed average minute and minute maximum wind speeds below 25 miles per hour during the visual observation of tailings dust crossing Duval Mine Road and the period of the EPA Method 9 by PDEQ staff (Attachment 1).

The FMSI Tailings Dam Dust Control Management Plan, Section 3.2 Aerial Application of Dust Suppressant (e.g., MgCl<sub>2</sub>) conveys that tailings surface crusts may be susceptible to wind erosion after heavy rainfall events sufficient to cause surface runoff and flushing of surface crusts. It also details that if topical application using All-Track Snow Utility Vehicles proves inadequate, a plan for aerial application of dust suppression may be implemented. FMSI identified a heavy rainfall event on August 3, 2017, 7 days prior to the tailings dust event of August 9, 2017 as a contributing factor to the excess fugitive emissions generation.

PDEQ staff observed holes in the Fire Ore Crushing air pollution control inlet ducting and uncovered openings in the collected dust fines disposal pipes on August 9, 2017. Attachment B, VI.B.2 requires that secondary and tertiary crushing circuits, and associated duct work and cartridge dust collectors be maintained and operated in a manner consistent with good air pollution control practice for minimizing particulate matter emissions. The holes in the inlet ducting intake ambient air and reduce designed efficiency of the dust collection system and the uncovered openings in the pipes continuously emitted dust during disposal of collected fines from the dust collectors. FMSI staff were unable to provide a date of discovery, prior to August 9, 2017, of the holes in the inlet ducting, and communicated that the clean out port openings in the pipes became uncovered during a storm event that occurred on July 31, 2017. FMSI staff were unable to produce documentation of work orders or maintenance logs related to the cause or discovery of the holes and uncovered openings. The openings were covered by August 10, 2017, and the holes in the ducting were covered as supported by work order 400007732426 and submitted photographs (Attachment 2).

Upon review of the inspection findings and submitted documents, PDEQ determined that a Notice of Violation will be issued to FMSI for deficiencies of Attachment B, XIX.B.1.a and II.E.1 and an Opportunity to Correct will be issued for a deficiency of Attachment B, VI.B.2.

Attachments:

- 
1. Tailings\_COW Weather Station Data for August 9, 2017
  2. Fire Ore Crushing Duct Repair Photographs

# Tailings - COW Weather Station

Table Name: ONE\_Min

Time Stamp	Record	BattV	BattV_Min	AirTempF_Avg	AirTempF_Max	AirTempF_Min	AirRH	Precip_Tot	Precip_24	WS MPH	WindDir	Sigma	Gust
2017-08-09 14:00:00	989518	13.11	13.11	98.7	99	98.4	21.51	0	0	3.021	167.4	7.712	4.34
2017-08-09 14:01:00	989519	13.11	13.11	98.4	98.7	98.2	22.29	0	0	1.534	148	43.9	2.85
2017-08-09 14:02:00	989520	13.11	13.11	99.1	99.5	98.6	21.47	0	0	2.839	175	10.52	4.91
2017-08-09 14:03:00	989521	13.11	13.11	98.8	99.2	98.5	21.78	0	0	3.456	176	8.34	4.559
2017-08-09 14:04:00	989522	13.11	13.11	98.4	98.6	98.1	21.58	0	0	0.822	163.2	9.79	1.973
2017-08-09 14:05:00	989523	13.11	13.11	98.9	99.4	98.6	22.29	0	0	0.329	291	36.36	0.877
2017-08-09 14:06:00	989524	13.11	13.11	100.1	100.5	99.6	21.88	0	0	0.259	41.84	38.48	1.666
2017-08-09 14:07:00	989525	13.11	13.11	100.7	100.9	100.5	20.72	0	0	2.028	110.6	36.11	2.499
2017-08-09 14:08:00	989526	13.11	13.11	100.5	100.8	100.2	21.41	0	0	1.257	150.1	41.95	2.806
2017-08-09 14:09:00	989527	13.11	13.11	100.4	100.5	100.2	21.3	0	0	2.831	177.6	31.55	4.735
2017-08-09 14:10:00	989528	13.11	13.11	99.8	100.3	99.5	21.44	0	0	4.424	181.5	17.92	6.138
2017-08-09 14:11:00	989529	13.11	13.11	99.5	99.8	99	21.64	0	0	3.635	174.4	13.61	5.655
2017-08-09 14:12:00	989530	13.11	13.11	99	99.2	98.7	21.88	0	0	4.669	172	8.94	7.19
2017-08-09 14:13:00	989531	13.11	13.11	98.5	98.9	98.2	22.12	0	0	5.21	176.1	6.897	6.313
2017-08-09 14:14:00	989532	13.11	13.11	97.9	98.2	97.8	22.43	0	0	3.851	181.1	15.07	4.779
2017-08-09 14:15:00	989533	13.11	13.11	98	98.2	97.8	22.57	0	0	3.065	190.6	34.02	5.042
2017-08-09 14:16:00	989534	13.11	13.11	98.2	98.5	97.9	22.02	0	0	4.636	155.3	16.37	5.743
2017-08-09 14:17:00	989535	13.11	13.11	98.6	98.7	98.2	22.33	0	0	2.053	166	34.59	3.156
2017-08-09 14:18:00	989536	13.11	13.11	98.8	98.9	98.6	22.09	0	0	3.931	169	21.24	5.612
2017-08-09 14:19:00	989537	13.11	13.11	98.5	98.7	98.4	22.33	0	0	3.931	175.2	15.25	5.875
2017-08-09 14:20:00	989538	13.11	13.11	98.9	99.2	98.5	21.58	0	0	1.841	184.6	24.64	2.499
2017-08-09 14:21:00	989539	13.11	13.11	99.1	99.4	98.8	22.02	0	0	3.496	168.5	18.04	4.91
2017-08-09 14:22:00	989540	13.11	13.11	98.9	99	98.9	22.19	0	0	3.339	183.7	19.57	4.822
2017-08-09 14:23:00	989541	13.11	13.11	99	99.2	98.7	22.12	0	0	3.211	160.5	36.25	4.559
2017-08-09 14:24:00	989542	13.08	13.08	99.4	99.5	99.2	22.29	0	0	1.929	158.3	32.49	3.989
2017-08-09 14:25:00	989543	13.08	13.08	99.8	100.1	99.5	22.12	0	0	2.835	179.2	14.96	4.384
2017-08-09 14:26:00	989544	13.08	13.08	100	100.4	99.8	22.46	0	0	1.64	148.7	47.59	2.148
2017-08-09 14:27:00	989545	13.08	13.07	100.4	100.6	100.2	22.39	0	0	2.963	153.1	22.19	4.91
2017-08-09 14:28:00	989546	13.08	13.07	100.5	100.7	100.5	20.62	0	0	2.758	141.8	32.51	4.866
2017-08-09 14:29:00	989547	13.08	13.07	99.9	100.5	99.2	20.38	0	0	4.691	181.6	11.65	5.787
2017-08-09 14:30:00	989548	13.08	13.07	98.7	99.2	98.4	20.79	0	0	3.317	172.2	11.93	5.524
2017-08-09 14:31:00	989549	13.08	13.08	98.7	98.9	98.5	20.72	0	0	2.075	195.2	21.69	3.902
2017-08-09 14:32:00	989550	13.08	13.08	99.2	99.4	98.9	20.89	0	0	1.958	136.6	39.26	3.902
2017-08-09 14:33:00	989551	13.08	13.07	99.5	99.8	99.2	20.48	0	0	1.903	110.6	17.93	4.603
2017-08-09 14:34:00	989552	13.08	13.07	99.9	100	99.7	21	0	0	1.286	91.6	45.46	2.192
2017-08-09 14:35:00	989553	13.08	13.07	100.4	100.6	100	19.12	0	0	2.09	118.8	63.53	3.946
2017-08-09 14:36:00	989554	13.08	13.07	100.2	100.6	99.6	19.36	0	0	4.063	104.1	22.06	7.234
2017-08-09 14:37:00	989555	13.08	13.08	99.3	99.5	99.1	19.19	0	0	3.314	158.7	42.94	5.655
2017-08-09 14:38:00	989556	13.08	13.07	98.7	99.1	98.4	19.84	0	0	3.208	174.2	9	5.524
2017-08-09 14:39:00	989557	13.08	13.07	98.4	98.6	98.4	19.77	0	0	2.006	195.5	12.94	3.332
2017-08-09 14:40:00	989558	13.08	13.07	98.6	98.7	98.4	20.04	0	0	2.85	194.1	13.28	4.077
2017-08-09 14:41:00	989559	13.08	13.07	98.1	98.3	97.9	20.18	0	0	3.438	173	19.25	3.814
2017-08-09 14:42:00	989560	13.08	13.07	98	98.1	97.9	20.18	0	0	2.44	205.8	32.1	3.376
2017-08-09 14:43:00	989561	13.08	13.07	98.2	98.6	97.9	20.31	0	0	3.609	270.2	12.32	4.91
2017-08-09 14:44:00	989562	13.08	13.07	98.7	98.9	98.6	19.94	0	0	1.786	246.2	20.27	2.85
2017-08-09 14:45:00	989563	13.08	13.07	99	99.1	98.8	19.39	0	0	2.506	167.9	38.93	4.296
2017-08-09 14:46:00	989564	13.08	13.07	99	99.2	98.9	20.59	0	0	1.757	160.1	24.16	3.726
2017-08-09 14:47:00	989565	13.09	13.07	99.6	99.9	99.1	19.97	0	0	2.93	108.8	36.79	5.042
2017-08-09 14:48:00	989566	13.08	13.07	100.2	100.3	99.9	19.97	0	0	4.296	96.5	13.48	6.839
2017-08-09 14:49:00	989567	13.08	13.07	99.7	100.1	99.3	19.29	0	0	3.796	91.6	17.6	5.217
2017-08-09 14:50:00	989568	13.08	13.07	99	99.4	98.4	19.5	0	0	6.36	94.3	8.51	8.02
2017-08-09 14:51:00	989569	13.1	13.07	98.1	98.4	97.9	19.77	0	0	4.428	99.7	11.46	5.831
2017-08-09 14:52:00	989570	13.08	13.07	97.9	98.1	97.9	20.25	0	0	2.28	94.6	25.06	5.129
2017-08-09 14:53:00	989571	13.08	13.07	98	98.1	97.8	19.77	0	0	5.14	104.7	12.61	6.444
2017-08-09 14:54:00	989572	13.08	13.07	97.5	97.7	97.3	20.59	0	0	2.941	107.8	27.08	5.568
2017-08-09 14:55:00	989573	13.08	13.07	97.3	97.5	97.2	20.83	0	0	3.942	91.9	12.6	6.138
2017-08-09 14:56:00	989574	13.08	13.07	97.3	97.5	97.1	21.41	0	0	1.856	132.5	29.76	4.603
2017-08-09 14:57:00	989575	13.09	13.07	97.6	97.8	97.4	20.89	0	0	0.515	178.4	28.81	1.71
2017-08-09 14:58:00	989576	13.09	13.07	97.8	98	97.6	21.2	0	0	2.473	172.4	19.84	4.121
2017-08-09 14:59:00	989577	13.09	13.07	97.3	97.5	96.8	21.27	0	0	2.875	154.3	27.74	5.217

2017-08-09 15:00:00	989578	13.08	13.07	96.9	97	96.7	22.09	0	0	1.75	75.75	20.57	3.463
2017-08-09 15:01:00	989579	13.08	13.07	97	97	96.8	21.51	0	0	2.119	99.6	16.58	3.2
2017-08-09 15:02:00	989580	13.08	13.07	97	97.1	97	21.23	0	0	2.718	80.7	9.15	3.288
2017-08-09 15:03:00	989581	13.09	13.08	96.9	97	96.8	21.34	0	0	0.486	58.75	0.703	1.841
2017-08-09 15:04:00	989582	13.08	13.07	97.1	97.3	97	21.58	0	0	2.419	162.7	28.08	4.822
2017-08-09 15:05:00	989583	13.08	13.07	97.3	97.4	97.3	21.61	0	0	2.645	188.3	22.23	4.252
2017-08-09 15:06:00	989584	13.11	13.07	97.6	97.6	97.4	21.64	0	0	3.087	207.6	11.2	4.209
2017-08-09 15:07:00	989585	13.13	13.11	97.4	97.6	97.2	21.47	0	0	3.84	209.7	13.75	4.954
2017-08-09 15:08:00	989586	13.12	13.11	97	97.1	96.8	22.36	0	0	2.714	222.7	13.33	3.595
2017-08-09 15:09:00	989587	13.12	13.11	96.9	97	96.8	22.22	0	0	4.011	204.1	5.346	5.217
2017-08-09 15:10:00	989588	13.12	13.11	97	97.1	96.9	22.39	0	0	4.961	214.4	8.66	7.453
2017-08-09 15:11:00	989589	13.11	13.1	97	97.2	96.9	22.84	0	0	6.397	222.6	11.01	9.64
2017-08-09 15:12:00	989590	13.12	13.11	96.8	97	96.7	22.97	0	0	7.394	221.6	14.8	9.21
2017-08-09 15:13:00	989591	13.12	13.11	96.7	96.8	96.5	23.59	0	0	6.561	226.7	6.775	8.9
2017-08-09 15:14:00	989592	13.12	13.11	96.7	96.8	96.6	23.52	0	0	5.44	233	16.26	7.76
2017-08-09 15:15:00	989593	13.12	13.11	96.9	97	96.7	23.08	0	0	5.137	243.3	26.19	6.313
2017-08-09 15:16:00	989594	13.11	13.11	96.8	96.9	96.7	24.3	0	0	3.259	254.6	27.3	5.568
2017-08-09 15:17:00	989595	13.12	13.11	96.7	96.8	96.5	24.1	0	0	3.394	263.7	20.14	4.691
2017-08-09 15:18:00	989596	13.11	13.11	96.7	96.9	96.4	23.76	0	0	3.832	234	23.68	6.181
2017-08-09 15:19:00	989597	13.12	13.11	96.8	96.8	96.7	24.24	0	0	3.931	235.3	22.59	6.225
2017-08-09 15:20:00	989598	13.13	13.12	96.8	96.9	96.7	26.59	0	0	10.34	236.8	49.91	16.05
2017-08-09 15:21:00	989599	13.12	13.11	96.5	96.9	96.1	28.06	0	0	9.14	252.3	16.95	11.84
2017-08-09 15:22:00	989600	13.13	13.12	95.9	96	95.7	28.77	0	0	7.413	254.7	27.61	12.98
2017-08-09 15:23:00	989601	13.13	13.13	95.6	95.8	95.4	29.25	0	0	7.266	259	30.22	12.23
2017-08-09 15:24:00	989602	13.13	13.13	95.5	95.6	95.3	29.11	0	0	5.699	287	21.29	7.453
2017-08-09 15:25:00	989603	13.13	13.13	95.4	95.7	95.2	29.66	0	0	7.277	293.2	21	10.17
2017-08-09 15:26:00	989604	13.12	13.12	95.4	95.7	95.2	28.81	0	0	12.21	313.5	12.66	16.48
2017-08-09 15:27:00	989605	13.12	13.12	95	95.2	94.8	29.39	0	0	12.24	336.8	15.69	16.31
2017-08-09 15:28:00	989606	13.12	13.12	95.1	95.4	94.9	29.73	0	0	13.18	315.6	9.02	16
2017-08-09 15:29:00	989607	13.11	13.11	95.2	95.4	94.9	29.8	0	0	13.54	315.9	16.55	17.76
2017-08-09 15:30:00	989608	13.1	13.1	95.2	95.4	94.9	30.75	0	0	16.95	322.4	5.582	18.5
2017-08-09 15:31:00	989609	13.09	13.09	94.7	95.3	94.1	31.37	0	0	15.45	326.2	12.9	17.62
2017-08-09 15:32:00	989610	13.09	13.09	94.1	94.4	93.9	32.39	0	0	14.07	325.4	9.83	16.22
2017-08-09 15:33:00	989611	13.09	13.09	93.8	94.2	93.5	33.52	0	0	12.06	315.1	15.58	14.12
2017-08-09 15:34:00	989612	13.08	13.08	93.3	93.6	93	34.68	0	0	14.8	314.9	15.91	17.8
2017-08-09 15:35:00	989613	13.08	13.08	92.8	93.2	92	36.89	0	0	14.37	318.4	11.87	17.23
2017-08-09 15:36:00	989614	13.08	13.07	91.9	92.2	91.4	37.71	0	0	12.13	307.6	11.23	14.82
2017-08-09 15:37:00	989615	13.07	13.07	91.5	91.6	91.2	38.67	0	0	15.89	314.9	9.16	18.72
2017-08-09 15:38:00	989616	13.07	13.07	91.3	91.6	91.1	39.45	0	0	16.38	320	14.74	18.06
2017-08-09 15:39:00	989617	13.07	13.07	91.5	91.9	90.9	43.78	0	0	17.18	321	11.78	18.68
2017-08-09 15:40:00	989618	13.07	13.07	91.5	92.4	90.1	39.14	0	0	17.57	329.1	7.296	19.51
2017-08-09 15:41:00	989619	13.06	13.06	89.4	89.9	89	44.16	0	0	15.31	330.5	31.46	17.76
2017-08-09 15:42:00	989620	13.06	13.06	88.6	89.1	88.1	46.38	0	0	9.86	359.2	41.91	13.15
2017-08-09 15:43:00	989621	13.06	13.06	86.9	88.1	86	50.71	0	0	7.635	359.6	25.01	10.21
2017-08-09 15:44:00	989622	13.06	13.06	85.5	86	85.2	51.42	0	0	8.43	3.831	24.03	11.44
2017-08-09 15:45:00	989623	13.06	13.06	84.7	84.9	84.4	44.91	0	0	12.15	336	27.95	18.5
2017-08-09 15:46:00	989624	13.06	13.06	85.7	86.3	85	41.94	0	0	16.15	319.1	7.452	19.6
2017-08-09 15:47:00	989625	13.06	13.05	86.1	86.2	85.8	41.77	0	0	14.65	318.8	10.54	17.67
2017-08-09 15:48:00	989626	13.06	13.05	85.7	86.2	85.2	47.71	0	0	9.58	344.8	18.23	12.93
2017-08-09 15:49:00	989627	13.05	13.05	84.8	85	84.5	47.26	0	0	9.4	352.9	25.11	12.85
2017-08-09 15:50:00	989628	13.05	13.05	84.6	84.9	84.5	45.73	0	0	15.98	339.8	13.11	19.51
2017-08-09 15:51:00	989629	13.05	13.04	84.8	85.2	84.2	45.63	0	0	9.83	346.8	22.45	16
2017-08-09 15:52:00	989630	13.04	13.04	84.7	85	84.4	47.4	0	0	6.576	24.26	17.44	10.17
2017-08-09 15:53:00	989631	13.04	13.04	84	84.4	83.5	46.17	0	0	10.24	20.58	25.5	14.91
2017-08-09 15:54:00	989632	13.04	13.04	84.1	84.2	83.9	50.4	0	0	4.49	35.85	31.18	7.234
2017-08-09 15:55:00	989633	13.04	13.03	83.6	83.9	83.3	53.61	0	0	1.348	11.81	35.81	2.324
2017-08-09 15:56:00	989634	13.03	13.03	83	83.3	82.8	52.72	0	0	7.142	29.34	28.71	9.43
2017-08-09 15:57:00	989635	13.03	13.03	82.4	82.8	82.1	49.58	0	0	12.47	18.24	14.23	16.92
2017-08-09 15:58:00	989636	13.03	13.03	82.1	82.5	81.7	53.81	0	0	8.34	9.33	27.2	12.06
2017-08-09 15:59:00	989637	13.03	13.03	81.6	81.7	81.4	53.33	0	0	7.595	8.87	27.1	9.73
2017-08-09 16:00:00	989638	13.03	13.02	81.6	81.8	81.4	53.78	0	0	9.35	43.26	8.97	13.85
2017-08-09 16:01:00	989639	13.03	13.02	81.4	81.5	81.2	57.16	0	0	9.62	46.43	13.59	13.55
2017-08-09 16:02:00	989640	13.02	13.02	81.4	81.5	81.3	56.78	0	0	10.26	66.92	12.11	12.49

	989641	13.02	13.02	81.6	81.8	81.4	57.67	0	0	9.36	57.31	14.73	13.24
2017-08-09 16:04:00	989642	13.02	13.02	81.7	81.8	81.5	57.63	0	0	9.26	65.7	8.52	10.48
2017-08-09 16:05:00	989643	13.02	13.02	81.7	81.8	81.5	58.79	0	0	10.66	68.86	8.24	12.49
2017-08-09 16:06:00	989644	13.02	13.02	82.2	82.9	81.6	50.06	0	0	14.54	55.88	11.6	16.92
2017-08-09 16:07:00	989645	13.02	13.02	83.6	84	82.8	48.73	0	0	16.09	62.94	9.75	19.68
2017-08-09 16:08:00	989646	13.02	13.02	83.7	84	83.4	47.47	0	0	17.84	49.68	10.37	19.99
2017-08-09 16:09:00	989647	13.01	13.01	83.8	84.1	83.3	51.73	0	0	13.83	54.81	7.803	18.19
2017-08-09 16:10:00	989648	13.01	13.01	83.4	83.6	83.1	51.9	0	0	12.36	49.49	9.24	15.65
2017-08-09 16:11:00	989649	13.01	13.01	83.1	83.4	82.8	52.17	0	0	12.85	49	12.02	14.47
2017-08-09 16:12:00	989650	13.01	13.01	82.9	83.1	82.7	54.6	0	0	13.29	44.91	12.42	15.56
2017-08-09 16:13:00	989651	13.01	13.01	82.3	82.5	81.9	55.93	0	0	15.39	39.06	10.42	17.05
2017-08-09 16:14:00	989652	13.01	13.01	81.8	81.9	81.7	53.78	0	0	17.77	40.15	5.637	20.6
2017-08-09 16:15:00	989653	13.01	13.01	82.2	82.5	81.9	51.53	0	0	17.34	43.47	5.376	20.17
2017-08-09 16:16:00	989654	13.01	13.01	82.7	83	82.5	51.22	0	0	14.94	48.16	10.41	19.33
2017-08-09 16:17:00	989655	13.01	13	82.8	83	82.5	51.39	0	0	12.44	48.26	8.77	15.96
2017-08-09 16:18:00	989656	13.01	13	82.7	83	82.5	52.48	0	0	10.04	36.98	8.2	10.7
2017-08-09 16:19:00	989657	13.01	13	82.3	82.7	82	55.14	0	0	7.8	31.9	10.44	9.03
2017-08-09 16:20:00	989658	13.01	13	81.8	81.9	81.4	55.42	0	0	6.868	46.9	10.96	9.29
2017-08-09 16:21:00	989659	13.01	13	81.6	81.8	81.4	57.46	0	0	6.24	61.09	9.18	7.891
2017-08-09 16:22:00	989660	13.01	13	81.8	81.9	81.6	54.87	0	0	7.478	68.1	9.17	8.72
2017-08-09 16:23:00	989661	13.01	13	82	82.2	81.8	53.13	0	0	8.25	85.7	5.179	8.99
2017-08-09 16:24:00	989662	13.01	13	82.8	83.1	82.3	48.05	0	0	9.4	88.6	5.873	10.48
2017-08-09 16:25:00	989663	13.01	13	83.7	83.9	83.2	49.04	0	0	7.774	88.3	7.027	9.21
2017-08-09 16:26:00	989664	13.01	13	84.3	84.7	83.8	47.81	0	0	7.383	71.23	5.321	8.15
2017-08-09 16:27:00	989665	13	13	84.8	85.1	84.4	47.47	0	0	6.598	71.21	8.6	7.716
2017-08-09 16:28:00	989666	13.01	13	85.7	86.5	85	41.53	0	0	11.95	61.49	11.92	16.35
2017-08-09 16:29:00	989667	13.01	13	87.6	88.1	86.8	40.44	0	0	11.84	61.47	12.32	14.03
2017-08-09 16:30:00	989668	13.01	13	88.1	88.3	87.9	40.1	0	0	10.76	56.19	6.574	13.5
2017-08-09 16:31:00	989669	13.01	13	87.9	88.2	87.2	40.58	0	0	8.25	55.5	10.46	10.39
2017-08-09 16:32:00	989670	13	13	87.9	88.1	87.7	42.28	0	0	8.94	59.03	12.08	10.61
2017-08-09 16:33:00	989671	13.01	13	87.2	87.9	86.3	43.85	0	0	12.21	46.72	5.583	14.77
2017-08-09 16:34:00	989672	13.01	13	86.3	86.7	85.8	44.67	0	0	11.62	43.27	7.274	13.46
2017-08-09 16:35:00	989673	13.01	13	86.7	86.9	86.5	43.75	0	0	12.36	46.72	8.55	14.42
2017-08-09 16:36:00	989674	13.01	13	86.5	86.6	86	46.44	0	0	14.29	47.47	6.523	15.61
2017-08-09 16:37:00	989675	13.01	13	85.7	86.5	84.7	50.47	0	0	12.76	43.15	9.16	14.73
2017-08-09 16:38:00	989676	13.01	13	84.1	85.1	83.1	54.97	0	0	11.57	33.25	7.177	12.89
2017-08-09 16:39:00	989677	13.01	13	82.5	83.1	82.1	55.93	0	0	12.81	36.19	4.379	14.07
2017-08-09 16:40:00	989678	13.01	13.01	82.1	82.2	81.9	53.74	0	0	13.27	38.89	9.94	14.03
2017-08-09 16:41:00	989679	13.01	13.01	82.4	82.5	82.1	56.13	0	0	12.26	26.1	6.727	13.77
2017-08-09 16:42:00	989680	13.01	13.01	82	82.2	81.9	55.55	0	0	11.87	15.88	21.13	16.83
2017-08-09 16:43:00	989681	13.02	13.01	82.1	82.3	81.8	52.04	0	0	16.22	17.42	15.53	21
2017-08-09 16:44:00	989682	13.02	13.01	82.2	82.4	81.9	50.61	0	0	17.75	26.89	15.41	21.22
2017-08-09 16:45:00	989683	13.02	13.02	82.1	82.3	82	50.3	0	0	18.17	23.85	9.17	22.31
2017-08-09 16:46:00	989684	13.02	13.02	82.2	82.3	82.1	52	0	0	19.43	36.78	12.43	23.76
2017-08-09 16:47:00	989685	13.03	13.02	81.9	82.2	81.6	52.45	0	0	21.11	33.42	12.77	24.46
2017-08-09 16:48:00	989686	13.03	13.03	81.5	81.8	81.2	53.33	0	0	18.98	26.96	6.586	23.59
2017-08-09 16:49:00	989687	13.03	13.03	81.1	81.4	80.9	54.6	0	0	18.86	39.55	11.41	22.58
2017-08-09 16:50:00	989688	13.04	13.03	80.9	81.1	80.7	54.77	0	0	19.7	38.31	10.54	22.4
2017-08-09 16:51:00	989689	13.04	13.04	81	81.3	80.6	55.62	0	0	20.3	38.54	9.67	23.67
2017-08-09 16:52:00	989690	13.05	13.04	81.1	81.3	80.9	56.75	0	0	19.69	37.16	9.53	23.5
2017-08-09 16:53:00	989691	13.06	13.04	81.2	81.4	81.1	58.18	0	0	17.86	35.68	8.78	21.31
2017-08-09 16:54:00	989692	13.06	13.05	81.2	81.4	80.9	58.08	0	0	21.06	34.31	7.9	26.79
2017-08-09 16:55:00	989693	13.07	13.06	81	81.2	80.6	57.91	0	0	21.33	38.94	9.24	27.36
2017-08-09 16:56:00	989694	13.07	13.06	81	81.2	80.8	59.1	0	0	19.07	40.81	12.73	22.1
2017-08-09 16:57:00	989695	13.08	13.07	80.9	81.1	80.3	59.2	0	0	20.15	38.53	7.811	23.37
2017-08-09 16:58:00	989696	13.09	13.08	80.9	81.1	80.8	59.3	0	0	18.16	38.76	12.37	21.48
2017-08-09 16:59:00	989697	13.09	13.08	81	81.1	80.8	59.61	0	0	19.66	37.98	12.89	22.71
2017-08-09 17:00:00	989698	13.11	13.09	80.8	81	80.5	58.72	0	0	18.77	41.52	11.17	21.17
2017-08-09 17:01:00	989699	13.12	13.11	80.9	81.1	80.4	58.86	0	0	18.73	39.34	5.933	22.31
2017-08-09 17:02:00	989700	13.13	13.12	81	81.2	80.4	59.3	0	0	16.64	48.45	10.56	21.35
2017-08-09 17:03:00	989701	13.14	13.13	81.2	81.4	81.1	57.56	0	0	19.94	40.7	5.411	25.43
2017-08-09 17:04:00	989702	13.15	13.14	81.2	81.4	80.8	58.28	0	0	18.32	44.58	8.51	21.04
2017-08-09 17:05:00	989703	13.17	13.15	81.4	81.5	81.1	59.2	0	0	18.58	49.84	9.55	22.23
2017-08-09 17:06:00													

	989704	13.19	13.17	81.4	81.5	81.2	59.37	0	0	16.54	48.48	8.7	20.6
2017-08-09 17:07:00	989705	13.22	13.19	81.2	81.4	80.9	59.07	0	0	16.87	44.15	10.58	20.91
2017-08-09 17:08:00	989706	13.28	13.22	81.3	81.4	81.1	60.19	0	0	15.54	47.1	7.957	21.31
2017-08-09 17:09:00	989707	13.43	13.28	81.3	81.5	81.1	60.26	0	0	14.19	50.5	8.59	17.4
2017-08-09 17:10:00	989708	13.48	13.44	81.3	81.5	81.1	59	0	0	15.67	49.14	10.22	18.33
2017-08-09 17:11:00	989709	13.46	13.46	81.3	81.5	80.7	60.09	0	0	15.5	54.3	13.76	20.43
2017-08-09 17:12:00	989710	13.46	13.46	81.3	81.5	80.8	58.83	0	0	16.94	55.3	13.15	21.53
2017-08-09 17:13:00	989711	13.49	13.47	81.3	81.5	81.1	60.46	0	0	16.22	49.02	9.59	21.39
2017-08-09 17:14:00	989712	13.49	13.46	81.3	81.4	80.9	59.65	0	0	17	51.17	7.408	21.17
2017-08-09 17:15:00	989713	13.49	13.46	81.4	81.5	81.2	59.47	0	0	16.13	46.41	10.9	22.4
2017-08-09 17:16:00	989714	13.49	13.46	81.5	81.7	81.3	58.14	0	0	15.72	56.72	10.17	20.52
2017-08-09 17:17:00	989715	13.49	13.46	81.6	81.9	81.4	59.65	0	0	15.8	53.78	8.03	19.51
2017-08-09 17:18:00	989716	13.48	13.46	81.5	81.7	81.4	58.38	0	0	15.49	49.17	4.221	18.72
2017-08-09 17:19:00	989717	13.49	13.46	81.7	81.9	81.2	57.26	0	0	16.65	47	6.059	19.77
2017-08-09 17:20:00	989718	13.46	13.46	81.7	81.9	81.5	57.91	0	0	17.99	49.2	4.92	22.58
2017-08-09 17:21:00	989719	13.49	13.46	81.7	81.8	81.5	58.31	0	0	16.92	47.41	10.06	24.11
2017-08-09 17:22:00	989720	13.48	13.46	81.7	81.9	81.4	59	0	0	15.71	47.79	7.956	20.56
2017-08-09 17:23:00	989721	13.46	13.46	81.7	81.9	81.6	58.52	0	0	16.43	47.5	9.66	19.46
2017-08-09 17:24:00	989722	13.49	13.46	81.7	81.9	81.5	58.45	0	0	16.21	49.07	10.89	19.25
2017-08-09 17:25:00	989723	13.47	13.46	81.7	82	81.2	58.28	0	0	17.5	48.24	8.02	24.02
2017-08-09 17:26:00	989724	13.47	13.46	81.7	81.9	81.4	58.31	0	0	14.75	53.66	13.56	16.92
2017-08-09 17:27:00	989725	13.47	13.46	81.8	82	81.5	57.56	0	0	14.42	60.03	9.01	17.05
2017-08-09 17:28:00	989726	13.47	13.46	82	82.2	81.7	57.19	0	0	14.65	56.53	6.574	17.23
2017-08-09 17:29:00	989727	13.49	13.46	82.1	82.2	81.9	57.16	0	0	15.76	57.09	12.1	19.25
2017-08-09 17:30:00	989728	13.49	13.47	82.2	82.5	81.9	56.68	0	0	16.15	69.62	5.526	19.55
2017-08-09 17:31:00	989729	13.47	13.46	82.3	82.5	81.9	56.06	0	0	20.95	73.6	4.398	22.67
2017-08-09 17:32:00	989730	13.49	13.47	82.4	82.6	82.1	57.84	0	0	21.26	77.18	7.283	22.45
2017-08-09 17:33:00	989731	13.47	13.47	82.2	82.5	81.7	58.72	0	0	24.29	80.5	6.545	27.58
2017-08-09 17:34:00	989732	13.49	13.46	81.9	82.1	81.5	59.3	0	0	18.22	60.08	10.36	22.84
2017-08-09 17:35:00	989733	13.47	13.46	81.9	82.1	81.6	59	0	0	15.89	53.68	10.67	19.6
2017-08-09 17:36:00	989734	13.49	13.46	81.9	82.2	81.8	57.09	0	0	14.68	54.6	8.3	16.83
2017-08-09 17:37:00	989735	13.47	13.46	82.2	82.3	81.8	58.01	0	0	13.2	59.97	7.264	16.26
2017-08-09 17:38:00	989736	13.46	13.46	82.4	82.6	81.9	57.39	0	0	13.63	58.39	6.479	16.05
2017-08-09 17:39:00	989737	13.47	13.47	82.4	82.6	82.3	55.93	0	0	14.06	62.04	8.35	16.92
2017-08-09 17:40:00	989738	13.48	13.46	82.6	82.8	82.5	55.76	0	0	14.24	61.99	10.4	17.76
2017-08-09 17:41:00	989739	13.47	13.46	82.5	82.7	82.4	56.06	0	0	14.93	60.17	12.07	17.54
2017-08-09 17:42:00	989740	13.48	13.47	82.6	82.8	82.5	55.21	0	0	15.95	72.65	9.45	19.46
2017-08-09 17:43:00	989741	13.48	13.46	82.8	83	82.6	54.32	0	0	15.35	68.71	4.527	20.96
2017-08-09 17:44:00	989742	13.48	13.46	83	83.3	82.8	53.54	0	0	15.67	60.96	6.603	17.45
2017-08-09 17:45:00	989743	13.48	13.48	83	83.1	82.8	53.37	0	0	15.56	53.58	11.03	18.81
2017-08-09 17:46:00	989744	13.48	13.47	83	83.2	82.5	53.61	0	0	16.13	49.61	6.974	17.93
2017-08-09 17:47:00	989745	13.48	13.46	82.9	83.3	82.3	52.86	0	0	17	50.76	6.632	21.48
2017-08-09 17:48:00	989746	13.48	13.48	83.1	83.3	82.8	52.75	0	0	15.86	49.92	13.34	19.51
2017-08-09 17:49:00	989747	13.48	13.48	83.1	83.4	82.6	52.62	0	0	14.62	53.94	8.15	16.79
2017-08-09 17:50:00	989748	13.48	13.47	83.2	83.4	82.8	52.86	0	0	13.87	51.15	9.84	17.23
2017-08-09 17:51:00	989749	13.47	13.46	83.2	83.4	82.8	52.72	0	0	13	59.13	8.51	15.52
2017-08-09 17:52:00	989750	13.48	13.47	83.4	83.6	82.8	52.28	0	0	13.75	66.96	9.68	15.48
2017-08-09 17:53:00	989751	13.48	13.47	83.4	83.6	83	51.46	0	0	13.54	61.43	8.02	14.55
2017-08-09 17:54:00	989752	13.47	13.47	83.5	83.7	83.1	51.42	0	0	11.76	63.62	7.825	14.25
2017-08-09 17:55:00	989753	13.47	13.47	83.5	83.8	83.4	51.49	0	0	11.42	60.89	6.925	12.49
2017-08-09 17:56:00	989754	13.48	13.47	83.6	83.8	83.4	51.19	0	0	12.94	68.14	8.72	15.34
2017-08-09 17:57:00	989755	13.49	13.47	83.7	83.9	83.4	49.62	0	0	14.25	65.79	9.34	17.67
2017-08-09 17:58:00	989756	13.49	13.47	84.1	84.2	83.8	49.41	0	0	15.18	67.33	9.54	17.23
2017-08-09 17:59:00	989757	13.49	13.47	84	84.2	83.8	49.58	0	0	17.66	71.54	6.539	19.64
2017-08-09 18:00:00	989758	13.48	13.46	83.9	84.1	83.4	49.72	0	0	16.93	66.56	8.32	19.25
2017-08-09 18:01:00	989759	13.49	13.47	84	84.1	83.6	48.8	0	0	14.93	61.11	8.85	16.53
2017-08-09 18:02:00	989760	13.47	13.47	84	84.1	83.9	49.82	0	0	14.45	52.99	11.77	16.44
2017-08-09 18:03:00	989761	13.48	13.46	83.9	84.1	83.7	49.79	0	0	14.69	49.49	10.45	18.72
2017-08-09 18:04:00	989762	13.48	13.47	83.8	83.9	83.4	50.54	0	0	15.42	53.67	6.468	18.06
2017-08-09 18:05:00	989763	13.46	13.46	83.8	83.9	83.6	50.71	0	0	14.82	51.31	11.04	17.36
2017-08-09 18:06:00	989764	13.41	13.41	83.7	83.9	83.3	50.98	0	0	12.84	51.6	10.52	15.78
2017-08-09 18:07:00	989765	13.35	13.35	83.7	84	83.3	50.71	0	0	14.33	58.77	6.496	18.06
2017-08-09 18:08:00	989766	13.31	13.31	83.7	83.9	83.2	50.61	0	0	13.17	58.3	5.796	16.53
2017-08-09 18:09:00													

	989767	13.27	13.27	83.8	83.9	83.4	50.4	0	0	12.78	60.24	7.537	15.17
2017-08-09 18:10:00	989768	13.25	13.25	83.8	84	83.4	50.26	0	0	13.27	68.55	5.627	17.45
2017-08-09 18:11:00	989769	13.23	13.23	83.8	83.9	83.4	50.37	0	0	13.58	71.21	5.693	15.26
2017-08-09 18:12:00	989770	13.22	13.22	83.8	83.9	83.6	49.89	0	0	14.46	71.4	4.771	15.12
2017-08-09 18:13:00	989771	13.2	13.2	83.8	84	83.6	50.16	0	0	14.39	71.25	3.789	15.69
2017-08-09 18:14:00	989772	13.18	13.18	83.8	83.9	83.4	49.58	0	0	15.37	76.04	4.976	17.01
2017-08-09 18:15:00	989773	13.17	13.17	83.8	83.9	83.5	49.55	0	0	15.86	79.66	4.38	17.58
2017-08-09 18:16:00	989774	13.15	13.15	83.8	84	83.4	49.24	0	0	15.71	76.92	3.594	17.1
2017-08-09 18:17:00	989775	13.13	13.13	83.8	84	83.8	49.75	0	0	15.68	79.95	5.324	17.23
2017-08-09 18:18:00	989776	13.12	13.12	83.8	84	83.6	50.3	0	0	15.6	77.92	5.745	17.76
2017-08-09 18:19:00	989777	13.11	13.11	83.8	83.9	83.3	50.47	0	0	15.45	75.65	5.098	16.66
2017-08-09 18:20:00	989778	13.1	13.1	83.7	83.9	83.4	50.88	0	0	14.64	69.39	7.186	15.39
2017-08-09 18:21:00	989779	13.09	13.09	83.7	83.9	83.6	51.15	0	0	12.12	57.98	9.93	14.34
2017-08-09 18:22:00	989780	13.09	13.09	83.7	83.9	83.1	52.21	0	0	11.35	53.79	10.31	13.15
2017-08-09 18:23:00	989781	13.08	13.08	83.5	83.8	83.1	52.24	0	0	15.6	45.35	4.86	18.06
2017-08-09 18:24:00	989782	13.08	13.08	83.1	83.3	82.9	53.81	0	0	14.09	44.8	10.35	16.92
2017-08-09 18:25:00	989783	13.08	13.07	82.7	83	82.4	55.14	0	0	14	48.3	9.72	16.97
2017-08-09 18:26:00	989784	13.07	13.07	82.3	82.7	82	57.26	0	0	14.18	52.32	11.97	15.34
2017-08-09 18:27:00	989785	13.07	13.07	82	82.2	81.5	58.38	0	0	14.15	51.41	13.68	17.45
2017-08-09 18:28:00	989786	13.07	13.07	81.8	82	81.2	59.3	0	0	15.56	47.82	10.09	18.54
2017-08-09 18:29:00	989787	13.06	13.06	81.3	81.7	80.9	60.29	0	0	18.32	43.4	8.32	23.15
2017-08-09 18:30:00	989788	13.06	13.06	81.2	81.3	81.1	60.6	0	0	15.92	41.17	5.811	18.15
2017-08-09 18:31:00	989789	13.06	13.06	81	81.3	80.6	60.53	0	0	19.35	51.18	9.6	23.94
2017-08-09 18:32:00	989790	13.05	13.05	80.9	81.2	80.8	61.59	0	0	16.55	50.2	12.56	18.85
2017-08-09 18:33:00	989791	13.05	13.05	80.8	81	80.5	61.86	0	0	16.98	46.5	12.75	19.64
2017-08-09 18:34:00	989792	13.04	13.04	80.7	80.9	80.5	60.09	0	0	18.14	54.03	12.26	23.72
2017-08-09 18:35:00	989793	13.04	13.04	80.4	80.7	80.3	59.65	0	0	20.98	50.43	7.806	27.01
2017-08-09 18:36:00	989794	13.04	13.03	80.3	80.4	80.1	58.21	0	0	25.91	47.5	8.87	30.42
2017-08-09 18:37:00	989795	13.03	13.03	80.1	80.4	79.83	58.04	0	0	24.06	48.54	9.84	28.1
2017-08-09 18:38:00	989796	13.03	13.03	80.1	80.3	79.95	57.97	0	0	22.68	51.59	9.42	25.91
2017-08-09 18:39:00	989797	13.02	13.02	80.2	80.3	80	57.8	0	0	22.31	54.94	8.03	30.42
2017-08-09 18:40:00	989798	13.02	13.02	80.1	80.3	79.89	57.97	0	0	22.08	49.59	12.64	27.62
2017-08-09 18:41:00	989799	13.02	13.02	80.1	80.3	79.83	58.59	0	0	24.97	43.15	9.99	29.2
2017-08-09 18:42:00	989800	13.01	13.01	80.1	80.3	80	59.17	0	0	23.91	53.72	11.94	30.34
2017-08-09 18:43:00	989801	13.01	13.01	80.1	80.4	79.83	58.72	0	0	27.99	41.43	6.321	37.04
2017-08-09 18:44:00	989802	13.01	13.01	80.2	80.4	80	58.25	0	0	30.44	42.52	5.357	34.94
2017-08-09 18:45:00	989803	13	13	80.3	80.5	80.1	57.39	0	0	28.55	43.59	9.91	32.49
2017-08-09 18:46:00	989804	13	13	80.5	80.8	80.1	56.54	0	0	26.86	47.3	8.87	34.15
2017-08-09 18:47:00	989805	12.99	12.99	80.6	80.8	80.3	56.88	0	0	22.2	53.68	8.17	26.79
2017-08-09 18:48:00	989806	12.99	12.99	80.5	80.7	80.1	56.85	0	0	21.32	50.23	11.69	23.63
2017-08-09 18:49:00	989807	12.99	12.99	80.6	80.7	80.4	57.02	0	0	22.22	56.28	10.05	27.31
2017-08-09 18:50:00	989808	12.99	12.99	80.6	80.7	80.4	57.29	0	0	19.32	51.42	12.42	26.87
2017-08-09 18:51:00	989809	12.98	12.98	80.6	80.8	80.5	55.96	0	0	17.93	56.06	10.16	21.53
2017-08-09 18:52:00	989810	12.98	12.98	80.8	81.1	80.5	55.69	0	0	17.88	60.26	7.445	20.82
2017-08-09 18:53:00	989811	12.98	12.98	80.8	81.1	80.4	56	0	0	18.36	56.36	12.3	20.82
2017-08-09 18:54:00	989812	12.98	12.98	80.7	80.9	80.4	55.93	0	0	20.31	50.16	9.89	23.67
2017-08-09 18:55:00	989813	12.97	12.97	80.8	81.1	80.6	54.02	0	0	26.14	48.2	11.2	32.18
2017-08-09 18:56:00	989814	12.97	12.97	81.1	81.3	80.9	54.6	0	0	27.09	45.03	6.239	35.69
2017-08-09 18:57:00	989815	12.97	12.97	80.9	81.2	80.4	56.06	0	0	17.53	55.44	9.01	20.47
2017-08-09 18:58:00	989816	12.97	12.97	80.6	80.8	80.3	56.23	0	0	18.53	52.57	11.32	25.34
2017-08-09 18:59:00	989817	12.97	12.97	80.6	80.8	80.3	55.76	0	0	23.02	47.44	10.5	28.28
2017-08-09 19:00:00	989818	12.97	12.96	80.7	80.9	80.1	55.38	0	0	23.64	47.2	9.16	30.38
2017-08-09 19:01:00	989819	12.96	12.96	80.6	80.9	80.4	56.54	0	0	21.46	48.46	6.038	25.51
2017-08-09 19:02:00	989820	12.96	12.96	80.5	80.6	80.3	56.37	0	0	18.28	53.27	6.547	23.37
2017-08-09 19:03:00	989821	12.96	12.96	80.5	80.7	80	56.54	0	0	20.86	53.67	9.71	25.12
2017-08-09 19:04:00	989822	12.96	12.96	80.4	80.6	80.2	56.44	0	0	20.02	51.1	9.93	26.79
2017-08-09 19:05:00	989823	12.96	12.96	80.5	80.6	80.2	56.03	0	0	24.65	51.98	8.13	27.4
2017-08-09 19:06:00	989824	12.95	12.95	80.4	80.6	80.3	56.61	0	0	20.5	49.92	8.53	27.05
2017-08-09 19:07:00	989825	12.95	12.95	80.5	80.6	80.3	56.2	0	0	22.31	47.92	8.45	26.3
2017-08-09 19:08:00	989826	12.95	12.95	80.4	80.6	80.1	55.72	0	0	22.73	49.1	8.43	24.51
2017-08-09 19:09:00	989827	12.95	12.94	80.5	80.8	80.3	55.18	0	0	17.7	55.74	8.17	22.36
2017-08-09 19:10:00	989828	12.94	12.94	80.7	80.8	80.6	55.21	0	0	22.38	51.33	9.02	25.73
2017-08-09 19:11:00	989829	12.94	12.94	80.7	80.9	80.3	55.65	0	0	18.91	50.85	10.63	23.32
2017-08-09 19:12:00													

	989830	12.94	12.94	80.6	80.7	80.1	55.55	0	0	20.61	47.59	10.38	23.41
2017-08-09 19:13:00	989831	12.94	12.94	80.6	80.8	80.5	55.31	0	0	20.7	48.55	8.68	26.35
2017-08-09 19:14:00	989832	12.94	12.94	80.7	81.1	80.3	54.39	0	0	22.18	51.57	13.38	27.18
2017-08-09 19:15:00	989833	12.94	12.93	80.9	81.1	80.8	54.15	0	0	19.83	58.52	10.82	22.71
2017-08-09 19:16:00	989834	12.94	12.93	81	81.2	80.7	54.36	0	0	19.25	45.58	8.23	22.27
2017-08-09 19:17:00	989835	12.94	12.93	81	81.2	80.8	53.91	0	0	21.81	48.9	7.147	27.01
2017-08-09 19:18:00	989836	12.93	12.93	81.1	81.3	80.9	53.88	0	0	17.72	52.29	7.797	19.86
2017-08-09 19:19:00	989837	12.93	12.93	81.2	81.3	81	53.78	0	0	18.66	47.5	8.52	25.69
2017-08-09 19:20:00	989838	12.93	12.93	81.1	81.4	80.6	53.51	0	0	18.17	52.77	7.735	21.61
2017-08-09 19:21:00	989839	12.93	12.93	81.3	81.5	81.2	53.1	0	0	19.91	53.74	11	23.24
2017-08-09 19:22:00	989840	12.93	12.93	81.3	81.5	80.9	52.93	0	0	20.68	47.26	9.39	27.05
2017-08-09 19:23:00	989841	12.93	12.93	81.3	81.5	81.1	53.47	0	0	18.3	58.91	9.46	22.53
2017-08-09 19:24:00	989842	12.93	12.93	81.1	81.3	80.9	53.74	0	0	16.81	54.05	9.54	22.14
2017-08-09 19:25:00	989843	12.93	12.93	81.1	81.3	80.7	53.03	0	0	17.58	50.76	9.22	20.43
2017-08-09 19:26:00	989844	12.93	12.92	81.1	81.3	81	53.06	0	0	18.22	54.13	7.292	21
2017-08-09 19:27:00	989845	12.93	12.92	81.2	81.4	81.1	53.16	0	0	16.36	55.11	7.898	19.77
2017-08-09 19:28:00	989846	12.93	12.92	81.2	81.3	80.9	53.03	0	0	15.15	53.75	13.49	17.01
2017-08-09 19:29:00	989847	12.92	12.92	81.2	81.4	81.1	52.38	0	0	15.65	55.96	9.1	17.93
2017-08-09 19:30:00	989848	12.92	12.92	81.3	81.5	81.1	51.29	0	0	16.27	53.21	9.5	18.46
2017-08-09 19:31:00	989849	12.92	12.92	81.5	81.6	81.4	51.53	0	0	14.62	58.81	9.32	16.66
2017-08-09 19:32:00	989850	12.92	12.92	81.5	81.7	81.1	51.25	0	0	14.74	59.19	9.7	18.46
2017-08-09 19:33:00	989851	12.92	12.92	81.6	81.8	81.2	50.78	0	0	14.38	57.53	12.82	18.41
2017-08-09 19:34:00	989852	12.92	12.92	81.7	81.9	81.3	50.61	0	0	15.06	59.85	5.137	17.36
2017-08-09 19:35:00	989853	12.92	12.92	81.7	81.9	81.4	50.81	0	0	11.83	56.57	6.053	13.9
2017-08-09 19:36:00	989854	12.92	12.92	81.8	81.9	81.5	50.54	0	0	12.57	57.98	4.775	15.08
2017-08-09 19:37:00	989855	12.92	12.91	81.8	81.9	81.7	50.13	0	0	12.24	59.02	9.05	13.9
2017-08-09 19:38:00	989856	12.92	12.92	81.8	82	81.4	49.86	0	0	12.14	54.43	7.191	15.08
2017-08-09 19:39:00	989857	12.92	12.91	81.9	82	81.7	49.92	0	0	12.06	59.76	7.683	14.38
2017-08-09 19:40:00	989858	12.92	12.91	81.9	82.1	81.5	49.72	0	0	13.23	66.28	6.657	14.99
2017-08-09 19:41:00	989859	12.92	12.91	81.9	82.1	81.5	49.72	0	0	11.61	66.24	5.485	13.72
2017-08-09 19:42:00	989860	12.92	12.91	82	82.2	81.9	49.68	0	0	11.21	62.76	3.492	13.02
2017-08-09 19:43:00	989861	12.91	12.91	82	82.2	81.6	49.07	0	0	13.27	65.42	5.986	15.87
2017-08-09 19:44:00	989862	12.91	12.91	82.1	82.3	81.9	49.34	0	0	12.42	66.16	4.978	15.21
2017-08-09 19:45:00	989863	12.91	12.91	82.1	82.2	81.9	49.21	0	0	12.11	66.81	5.411	13.59
2017-08-09 19:46:00	989864	12.91	12.91	82.1	82.3	81.7	48.56	0	0	13.08	59.84	3.587	14.16
2017-08-09 19:47:00	989865	12.91	12.91	82.4	82.6	82.3	47.88	0	0	12.22	58.93	5.386	14.2
2017-08-09 19:48:00	989866	12.91	12.91	82.6	82.9	82.3	47.3	0	0	13.13	60.99	8.07	15.21
2017-08-09 19:49:00	989867	12.91	12.91	83.1	83.4	82.5	46.61	0	0	12.32	67.17	6.443	14.99
2017-08-09 19:50:00	989868	12.91	12.91	83.3	83.5	83	46.85	0	0	10.55	63.74	8.24	13.02
2017-08-09 19:51:00	989869	12.91	12.91	83.4	83.6	83.2	46.44	0	0	9.97	58.03	3.525	12.67
2017-08-09 19:52:00	989870	12.91	12.91	83.4	83.6	83	46.21	0	0	9.46	64.07	9.17	11.44
2017-08-09 19:53:00	989871	12.91	12.91	83.4	83.5	83	46.65	0	0	8.83	60.94	6.284	11.75
2017-08-09 19:54:00	989872	12.91	12.91	83.3	83.5	83	46.51	0	0	9.49	64.29	5.808	10.83
2017-08-09 19:55:00	989873	12.91	12.91	83.4	83.6	83.1	45.69	0	0	10.63	59.12	8.1	13.37
2017-08-09 19:56:00	989874	12.91	12.9	83.6	83.8	83.3	45.05	0	0	11.28	55.71	9.6	12.54
2017-08-09 19:57:00	989875	12.91	12.9	83.8	83.9	83.6	45.93	0	0	9.16	55.66	12.27	11.92
2017-08-09 19:58:00	989876	12.9	12.9	83.7	83.8	83.6	45.42	0	0	9.66	53.91	6.331	11.27
2017-08-09 19:59:00	989877	12.9	12.9	83.8	83.9	83.6	45.18	0	0	11.26	43.73	5.957	13.37









