SCA Environmental, Inc.

DAILY REPORT

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PROJECT NAME **Sherwin-Wiilams, Emeryville, CA**

Sent to:	**Name**
SCA	Chuck Siu
CDM	D Cline

SCA PRJ # B10036
Zone: Main
Inspected by: JY
Reviewed by: CS

Activities: Cleaning
Date: Fri 6/17/11
Date: Mon 6/20/11

Miscellaneous Info
No. Workers On Site (est.)

Work In Progress: Shift of
Background sampling

Fenceline Air Sampling Results	**Station 1**	**Station 2**	**Station 3**	**Station 4**	**Station 5**	**Station 6**	**Station 7**	**Standards (subchronic)**	**Standards (acute)**
Arsenic(respirable) AM µg/m^3	NA	NA	NA	NA	NA	NA	NA	0.015	0.200
Arsenic(respirable) PM µg/m^3	NA	NA	NA	NA	NA	NA	NA	0.015	0.200
Arsenic(respirable) nite µg/m^3	NA	NA	NA	NA	NA	NA	NA	0.015	0.200
Lead (respirable) µg/m^3	NA	NA	NA	NA	NA	NA	NA	0.15	50.00
Benzene µg/m^3	NA	NA	NA	NA	NA	NA	NA	0.6	29
MEK µg/m^3	NA	NA	NA	NA	NA	NA	NA	737	45331
1,2-dichloroethane µg/m^3	NA	NA	NA	NA	NA	NA	NA	0.03	9986
ethylbenzene µg/m^3	NA	NA	NA	NA	NA	NA	NA	8.9	737
tetrachlorethene µg/m^3	NA	NA	NA	NA	NA	NA	NA	0.2	1358
toluene µg/m^3	NA	NA	NA	NA	NA	NA	NA	300	603
trichloroethene µg/m^3	NA	NA	NA	NA	NA	NA	NA	0.7	7309
1,2,4-trimethylbenzene µg/m^3	NA	NA	NA	NA	NA	NA	NA	12	11798
1,3,5-trimethylbenzene µg/m^3	NA	NA	NA	NA	NA	NA	NA	12	11798
vinyl chloride µg/m^3	NA	NA	NA	NA	NA	NA	NA	0.01	647
xylenes µg/m^3	NA	NA	NA	NA	NA	NA	NA	434	1302

								Action Levels (subchronic)	Action Levels (acute)
Resp Dust(4-hr avg, AM 7:30-11:30) µg/m^3	31.02	28.46	33.84	13.14	20.61	41.87	31.20	45.38	80.38
Resp Dust(4-hr avg, PM 11:30-15:30) µg/m^3	22.90	23.74	27.33	10.62	14.16	24.67	24.45	42.38	77.38
Resp Dust(16-hr avg, nite 15:30-7:30 next day) µg/m^3	26.14	24.27	23.29	16.52	14.06	27.24	23.29	40.91	75.91
Total VOCs (4-hr avg, AM 7:30-11:30) ppmv	0.014	0.046	0.081	0.055	0.021	0.034	0.066	0.461	20.880
Total VOCs (4-hr avg, PM 11:30-15:30) ppmv	0.012	0.049	0.066	0.013	0.007	0.020	0.058	0.462	20.880
Total VOCs (16-hr avg, nite 15:30-7:30 next day) ppmv	0.012	0.066	0.070	0.012	0.006	0.029	0.077	0.468	20.886

	Station 1		**Station 2**		**Station 3**		**Station 4**		**Station 5**		**Station 6**		**Station 7**	
% of Standards or Action Levels	**Subchronic**	**Acute**	**Subchronic**	**Acute**	**Subchronic**	**Acute**	**Subchronic**	**Acute**	**Subchronic**	**Acute**	**Subchronic**	**Acute**	**Subchronic**	**Acute**
Arsenic(respirable) AM %	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic(respirable) PM %	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic(respirable) nite %	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (respirable) %	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene %	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MEK %	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-dichloroethane %	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene %	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachlorethene %	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene %	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene %	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-trimethylbenzene %	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-trimethylbenzene %	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
vinyl chloride %	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylenes %	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Resp Dust(4-hr avg, AM 7:30-11:30) µg/m^3 %	68%	39%	63%	35%	75%	42%	29%	16%	45%	26%	92%	52%	69%	39%
Resp Dust(4-hr avg, PM 11:30-15:30) µg/m^3 %	54%	30%	56%	31%	64%	35%	25%	14%	33%	18%	58%	32%	58%	32%
Resp Dust(16-hr avg, nite 15:30-7:30 next day) µg/m^3 %	64%	34%	59%	32%	57%	31%	40%	22%	34%	19%	67%	36%	57%	31%
Total VOCs (4-hr avg, AM 7:30-11:30) ppmv %	3.0%	0.1%	10.0%	0.2%	17.6%	0.4%	11.9%	0.3%	4.6%	0.1%	7.4%	0.2%	14.3%	0.3%
Total VOCs (4-hr avg, PM 11:30-15:30) ppmv %	2.6%	0.1%	10.6%	0.2%	14.3%	0.3%	2.8%	0.1%	1.5%	0.0%	4.3%	0.1%	12.6%	0.3%
Total VOCs (16-hr avg, nite 15:30-7:30 next day) ppmv %	2.6%	0.1%	14.1%	0.3%	15.0%	0.3%	2.6%	0.1%	1.3%	0.0%	6.2%	0.1%	16.5%	0.4%

Comments/Detailed Description of Conditions:

Action levels on the above table were calculated by summing background data of the upwind stations & Vadose Zone Soils removal action levels. The action levels for different activities are listed below:

	units	Subchronic Action Level	Acute Action Level
RPM10*			
Raised Cap Material	ug/m3	0.6	1.8
Vadose Zone Soils	ug/m3	16	51
Soils for Shoring Installation	ug/m3	51	162
Saturated Soils	ug/m3	17	53
TVOC**	ppmv	0.44	20.85

Note:
*RPM10 action levels are based on arsenic performance standard and arsenic concentration of materials anticipated to be encountered during the specified activity.
**TVOC action levels are based on the action levels for individual VOC constituents as presented in the PAMP. The individual action levels for each VOCs are converted to ppmv unit and then summed and assigned as the action levels for TVOC

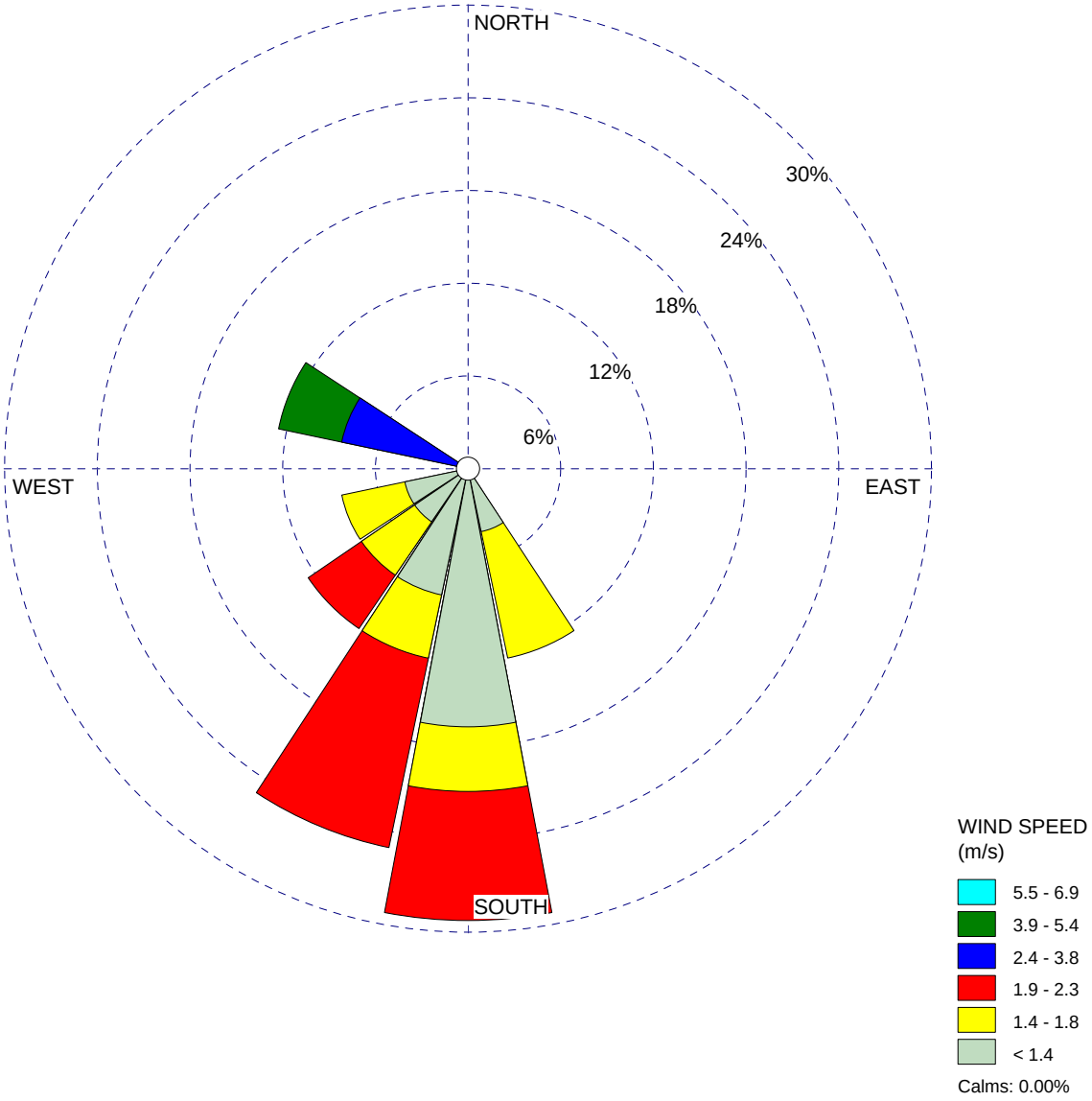
Subchronic action level plus the background RPM10 or TVOC levels constitutes the yellow alarm for slow down and/or increased vapor/dust control.
Acute action level plus the background RPM10 or TVOC levels constitutes the red alarm for stop work.

WIND ROSE PLOT:

Station #SW

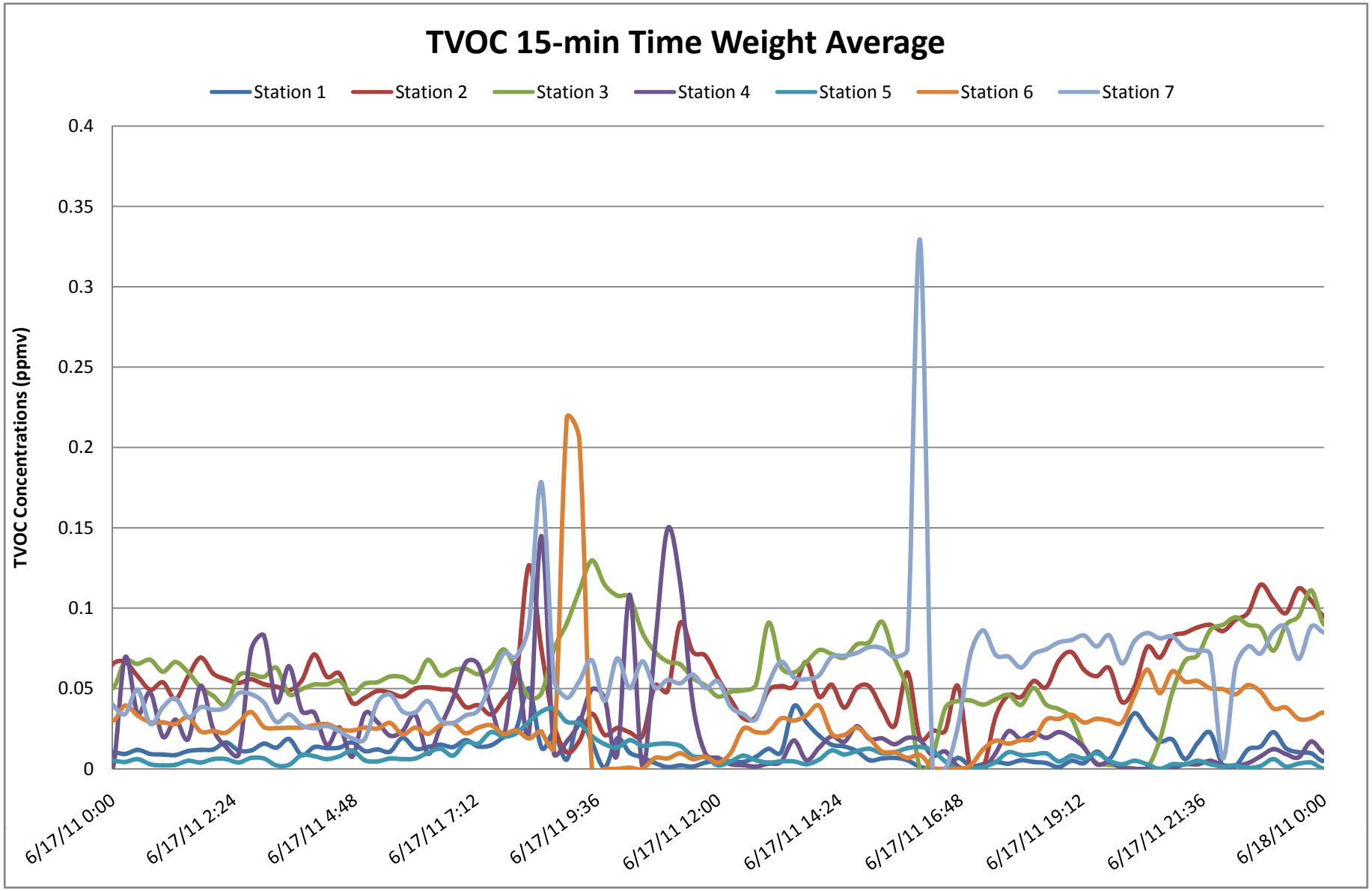
DISPLAY:

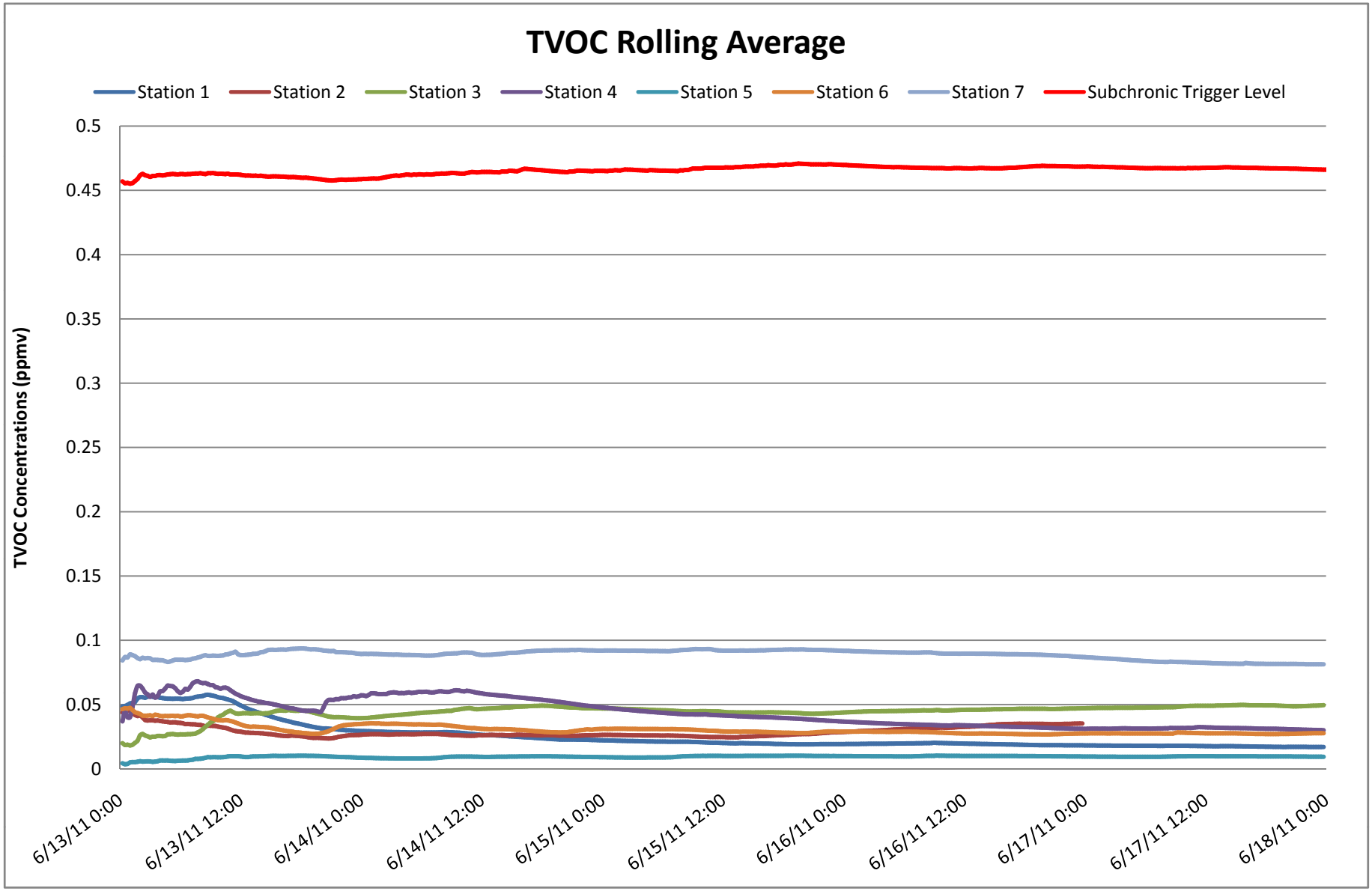
Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD:	COMPANY NAME:	
	Start Date: 6/17/2011 - 00:00 **End Date: 6/17/2011 - 23:00**	**CDM & SCA**	
		MODELER:	
	CALM WINDS:	TOTAL COUNT:	
	0.00%	**24 hrs.**	
	AVG. WIND SPEED:	DATE:	PROJECT NO.:
	1.75 m/s	**6/20/2011**	

WRPLOT View - Lakes Environmental Software


TVOC 15-min Time Weight Average
Station 1
Station 2
Station 3
Station 4
Station 5
Station 6
Station 7
TVOC Concentrations (ppmv)
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
6/17/11 0:00
6/17/11 2:24
6/17/11 4:48
6/17/11 7:12
6/17/11 9:36
6/17/11 12:00
6/17/11 14:24
6/17/11 16:48
6/17/11 19:12
6/17/11 21:36
6/18/11 0:00


TVOC Rolling Average
Station 1
Station 2
Station 3
Station 4
Station 5
Station 6
Station 7
Subchronic Trigger Level
TVOC Concentrations (ppmv)
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
6/13/11 0:00
6/13/11 12:00
6/14/11 0:00
6/14/11 12:00
6/15/11 0:00
6/15/11 12:00
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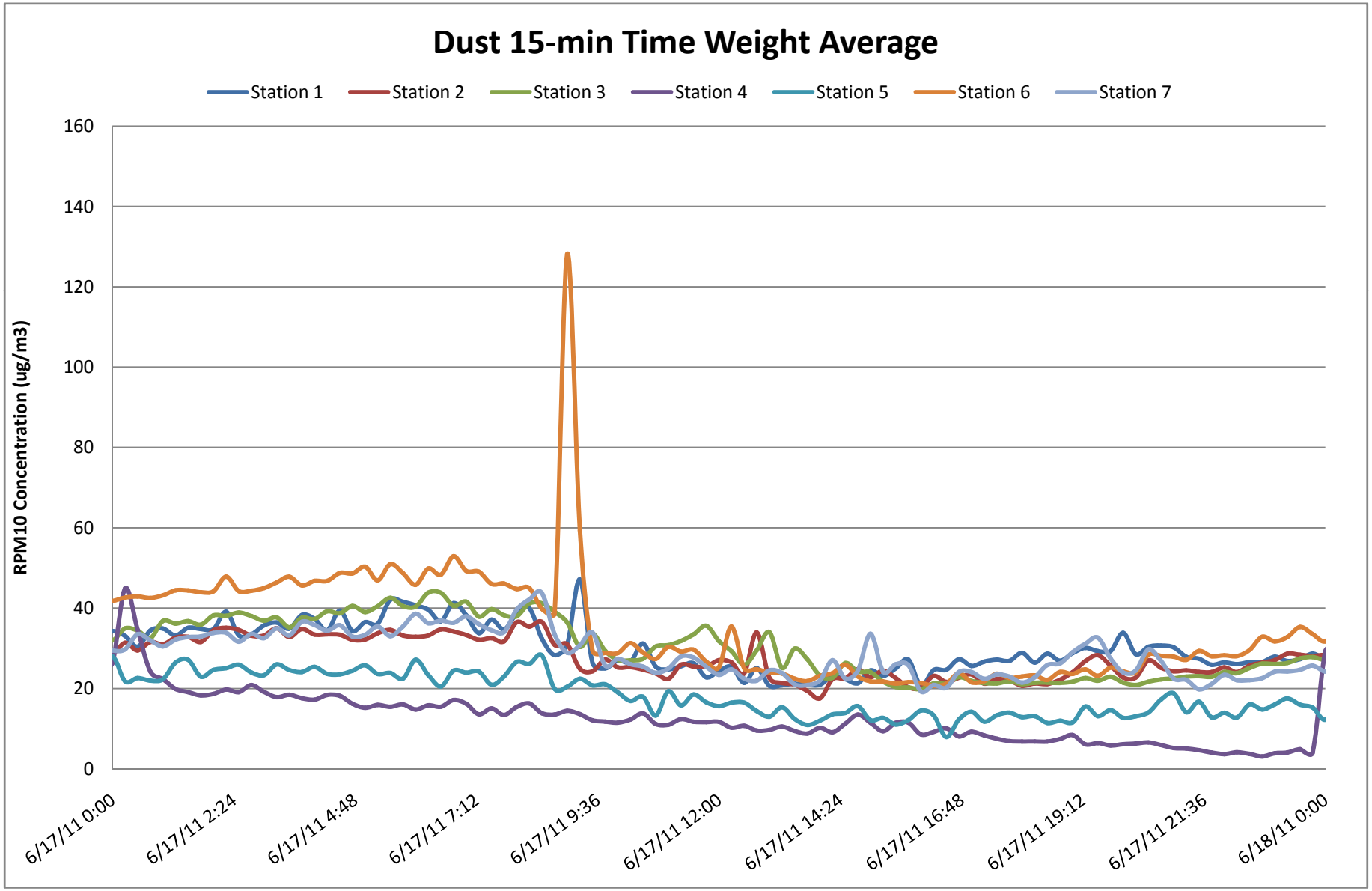
6/17/11 12:00
6/18/11 0:00


Dust 15-min Time Weight Average
Station 1
Station 2
Station 3
Station 4
Station 5
Station 6
Station 7
RPM10 Concentration (ug/m3)
160
140
120
100
80
60
40
20
0
6/17/11 0:00
6/17/11 2:24
6/17/11 4:48
6/17/11 7:12
6/17/11 9:36
6/17/11 12:00
6/17/11 14:24
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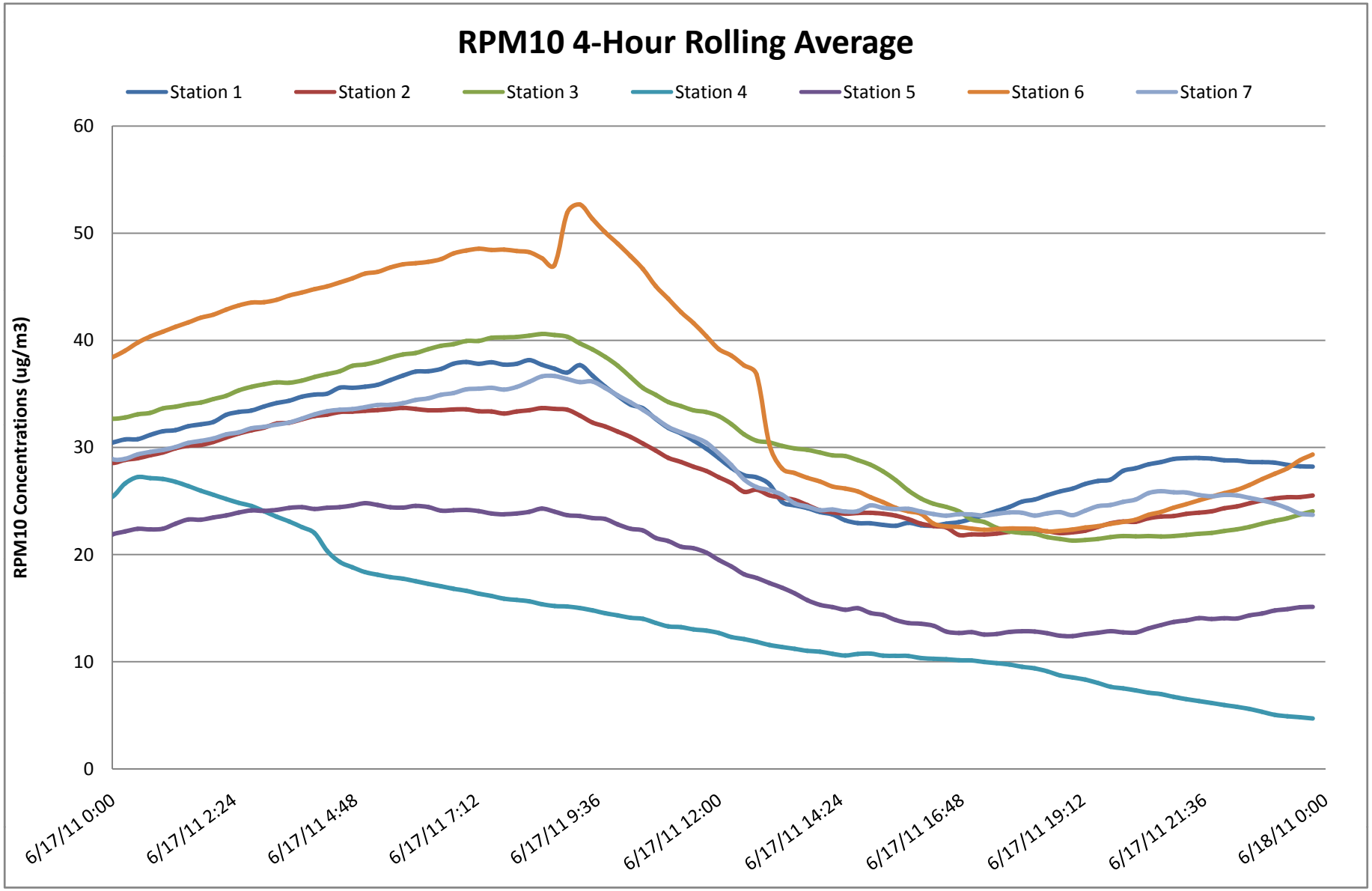
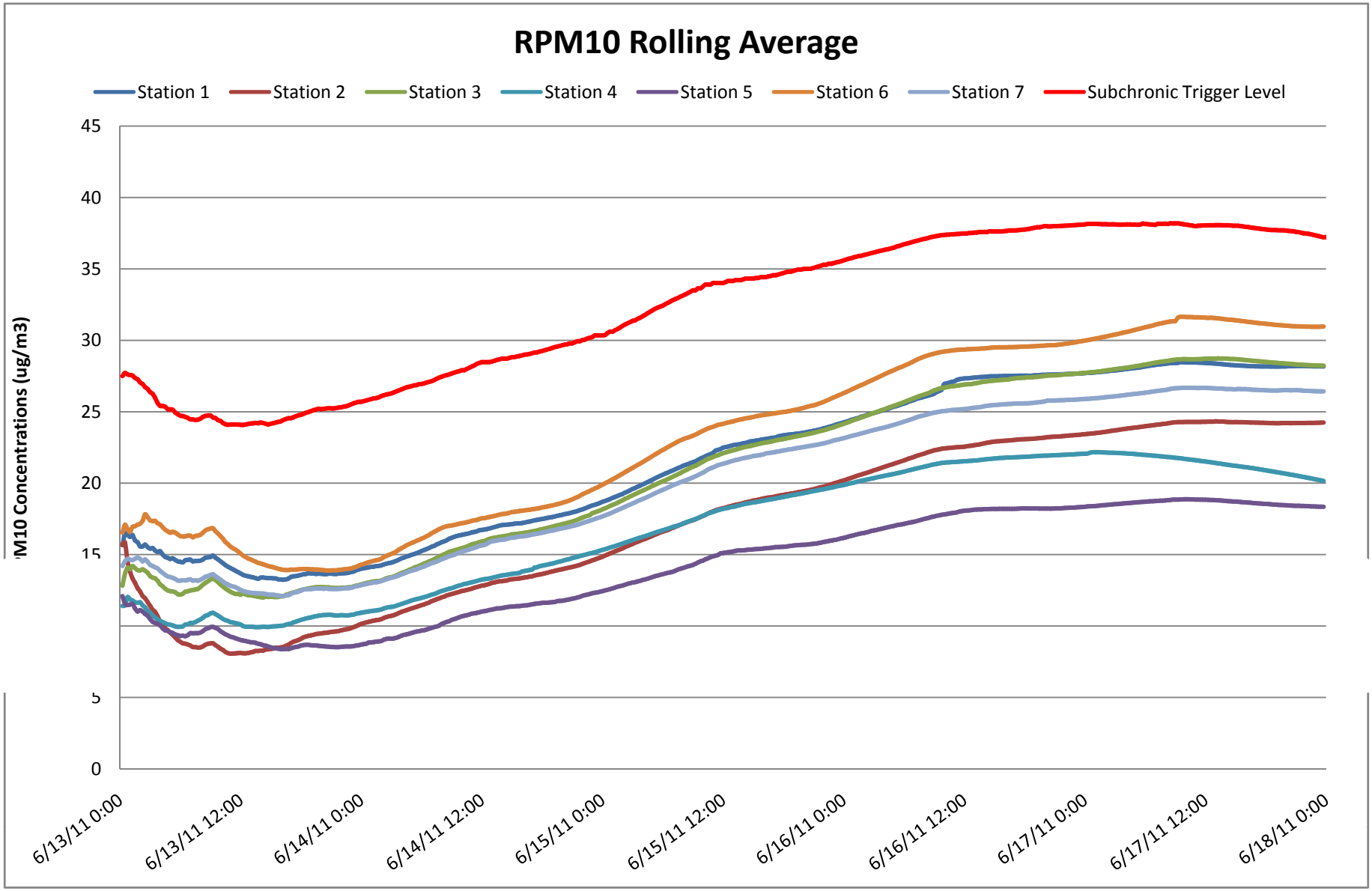
6/17/11 19:12
6/17/11 21:36
6/18/11 0:00


RPM10 4-Hour Rolling Average
Station 1
Station 2
Station 3
Station 4
Station 5
Station 6
Station 7
RPM10 Concentrations (ug/m3)
60
50
40
30
20
10
0
6/17/11 0:00
6/17/11 2:24
6/17/11 4:48
6/17/11 7:12
6/17/11 9:36
6/17/11 12:00
6/17/11 14:24
6/17/11 16:48
6/17/11 19:12
6/17/11 21:36
6/18/11 0:00


RPM10 Rolling Average
Station 1
Station 2
Station 3
Station 4
Station 5
Station 6
Station 7
Subchronic Trigger Level
M10 Concentrations (ug/m3)
45
40
35
30
25
20
15
5
0
6/13/11 0:00
6/13/11 12:00
6/14/11 0:00
6/14/11 12:00
6/15/11 0:00
6/15/11 12:00
6/16/11 0:00
6/16/11 12:00
6/17/11 0:00
6/17/11 12:00
6/18/11 0:00