


## **Attachment 3 – Indoor/Ambient Air Sample Collection Log**

		Indoor/Ambient Air Sample	
		Collection Log	
Sample ID:		I-75	
Client:	Marathon	Outdoor/Indoor:	Outdoor
Project:	Sewer Inv.	Sample Intake Height:	4'
Location:	Detroit	Miscellaneous Equipment:	—
Project #:		Time On/Off:	0946 / 0812
Sample Point Location:		Subcontractor:	—
Samplers:	L. Eenigenburg	Time and Date of Collection:	3/26/11 0812

Instrument Readings:

Time	Canister Pressure (inches of Hg)	Temperature (F or C)	Relative Humidity (%)	Air Speed (ft/min)	Barometric Pressure (inches of Hg)	PID (ppb)
3/25 0946	29.5	~28	—	—	—	—
3/26 0812	4	~20	—	—	—	—

SUMMA Canister Information:


Size (circle one): 1 L 6 L

Canister ID: 34451

Flow Controller ID: 40318

General Observations/Notes:


Please record current weather information including wind speed and direction, ambient temperature, barometric pressure, and relative humidity via suitable information source (e.g., [weather.underground.com](http://weather.underground.com)).

		Indoor/Ambient Air Sample	
		Collection Log	
Sample ID:		Patricia	
Client:	Marathon	Outdoor/Indoor:	Outdoor
Project:	Sewer Inv.	Sample Intake Height:	4'
Location:	Detroit	Miscellaneous Equipment:	-
Project #:		Time On/Off:	0915/0815
Sample Point Location:		Subcontractor:	-
Samplers:	L. Eenigenburg	Time and Date of Collection:	3/26/11

Instrument Readings:

Time	Canister Pressure (inches of HG)	Temperature (F or C)	Relative Humidity (%)	Air Speed (ft/min)	Barometric Pressure (inches of Hg)	PID (ppb)
3/25 0915	29	~28	—	—	—	—
3/26 0815	0	~20	—	—	—	—

SUMMA Canister Information:

Size (circle one): 1 L (1 L)


Canister ID: 1627

Flow Controller ID: FC.0306

General Observations/Notes:


Please record current weather information including wind speed and direction, ambient temperature, barometric pressure, and relative humidity via suitable information source (e.g., weatherunderground.com).



 <b>ARCADIS</b>		Indoor/Ambient Air Sample	
		Collection Log	
Sample ID:		Liebold	
Client:	Marathon	Outdoor/Indoor:	outdoor
Project:	Sewer Inv.	Sample Intake Height:	4'
Location:	Detroit	Miscellaneous Equipment:	-
Project #:		Time On/Off:	1453 / 0823
Sample Point Location:		Subcontractor:	-
Samplers:	L. Eenigenburg	Time and Date of Collection:	3/26/11 0823

Instrument Readings:

Time	Canister Pressure (inches of HG)	Temperature (F or C)	Relative Humidity (%)	Air Speed (ft/min)	Barometric Pressure (inches of Hg)	PID (ppb)
3/25 0936 1453	28	~28				
3/26 0823	9	~20				

SUMMA Canister Information:

Size (circle one): 1 L (6 L)


Canister ID: 5747

Flow Controller ID: 40326 40237

General Observations/Notes:

check at 1453. No vac drop yet. Replace flow controller.

Please record current weather information including wind speed and direction, ambient temperature, barometric pressure, and relative humidity via suitable information source (e.g., weatherunderground.com).

		Indoor/Ambient Air Sample	
		Collection Log	
Sample ID:		Liddesdale	
Client:	Marathon	Outdoor/Indoor:	Outdoor
Project:	Sewer Inv.	Sample Intake Height:	4'
Location:	Detroit	Miscellaneous Equipment:	-
Project #:		Time On/Off:	0927 / 0320
Sample Point Location:		Subcontractor:	
Samplers:	L. Eenigenburg	Time and Date of Collection:	3/26/11 0820

Instrument Readings:

Time	Canister Pressure (inches of Hg)	Temperature (F or C)	Relative Humidity (%)	Air Speed (ft/min)	Barometric Pressure (inches of Hg)	PID (ppb)
3/25 0927	30	~28				
3/26 0820	5	~20				

SUMMA Canister Information:

Size (circle one): 1 L (6 L)


Canister ID: 943

Flow Controller ID: FC00334

General Observations/Notes:


Please record current weather information including wind speed and direction, ambient temperature, barometric pressure, and relative humidity via suitable information source (e.g., [weatherunderground.com](http://weatherunderground.com)).



		Indoor/Ambient Air Sample	
		Collection Log	
Sample ID:		East Fort	
Client:	Marathon	Outdoor/Indoor:	
Project:	Sewer. Inv.	Sample Intake Height:	
Location:	Detroit	Miscellaneous Equipment:	
Project #:		Time On/Off:	1458 / 808
Sample Point Location:		Subcontractor:	
Samplers:	L. Eengenburg	Time and Date of Collection:	3/26/11 0808

Instrument Readings:

Time	Canister Pressure (inches of HG)	Temperature (F or C)	Relative Humidity (%)	Air Speed (ft/min)	Barometric Pressure (inches of Hg)	PID (ppb)
3/25 3/26 1007-1458	25	~28				
0808	~0	~20				

SUMMA Canister Information:

Size (circle one): 1 L

6.1

Canister ID:

1481


Flow Controller ID:

FC0257 40631

General Observations/Notes:

Check at 1458. No vac drop yet. Replace Flow Controller

Please record current weather information including wind speed and direction, ambient temperature, barometric pressure, and relative humidity via suitable information source (e.g., weatherunderground.com).

		Indoor/Ambient Air Sample	
		Collection Log	
Sample ID:		West Fort	
Client:	Marathon	Outdoor/Indoor:	Outdoor
Project:	Sewer Inv.	Sample Intake Height:	4'
Location:	Detroit	Miscellaneous Equipment:	-
Project #:		Time On/Off:	0955/0826
Sample Point Location:		Subcontractor:	
Samplers:	L. Eenigenburg	Time and Date of Collection:	3/26/11 0826

Instrument Readings:

Time	Canister Pressure (inches of HG)	Temperature (F or C)	Relative Humidity (%)	Air Speed (ft/min)	Barometric Pressure (inches of Hg)	PID (ppb)
3/25 0955	28.5	~28				
3/26 0826	0	~20				

SUMMA Canister Information:

Size (circle one): 1 L ☒ 6 L

Canister ID: 14870

Flow Controller ID: 40517

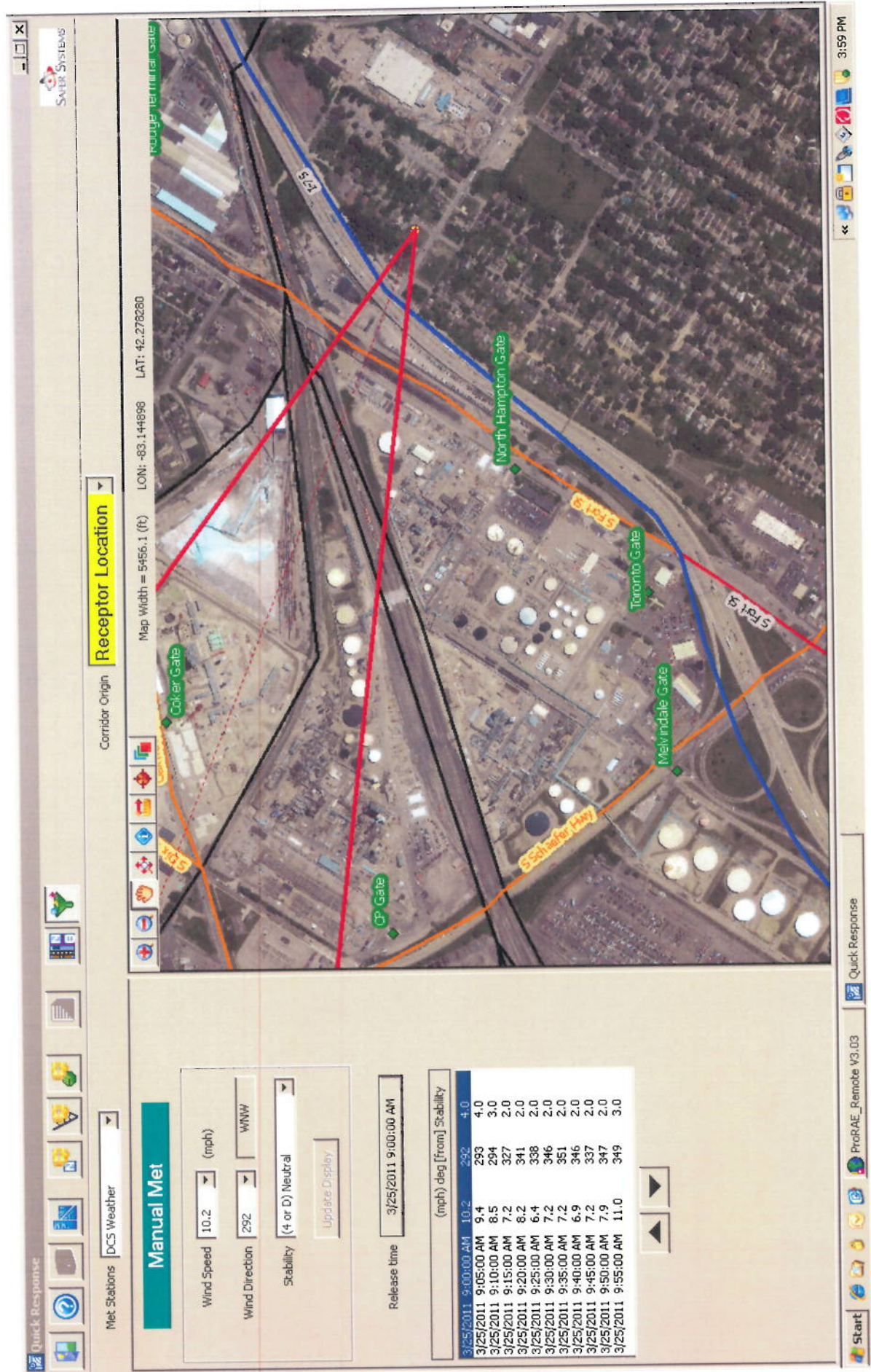
General Observations/Notes:


Please record current weather information including wind speed and direction, ambient temperature, barometric pressure, and relative humidity via suitable information source (e.g., weatherunderground.com).

## **Attachment 4 – Detailed Weather March 25-26, 2011**



March 25 2011 9:00 am





March 25 2011 10:00 am

Quick Response

Met Stations

DCS Weather

Receptor Location

Map Width = 5456.1 (ft)

LON: -83.157730

LAT: 42.285276

Corridor Origin

Manual Met

Wind Speed

10.0

(mph)

Wind Direction

351

North

Stability

(3 or C) Slightly Unstable

Update Display

Release time

3/25/2011 10:00:00 AM

(mph) deg [From] Stability

3/25/2011 10:00:00 AM	10.0	351	3.0
3/25/2011 10:05:00 AM	10.0	350	3.0
3/25/2011 10:10:00 AM	8.0	346	3.0
3/25/2011 10:15:00 AM	7.9	301	2.0
3/25/2011 10:20:00 AM	9.0	291	2.0
3/25/2011 10:25:00 AM	8.9	296	3.0
3/25/2011 10:30:00 AM	6.8	315	2.0
3/25/2011 10:35:00 AM	7.0	308	2.0
3/25/2011 10:40:00 AM	6.1	336	1.0
3/25/2011 10:45:00 AM	9.2	350	2.0
3/25/2011 10:50:00 AM	6.4	325	2.0
3/25/2011 10:55:00 AM	9.8	345	2.0

Start

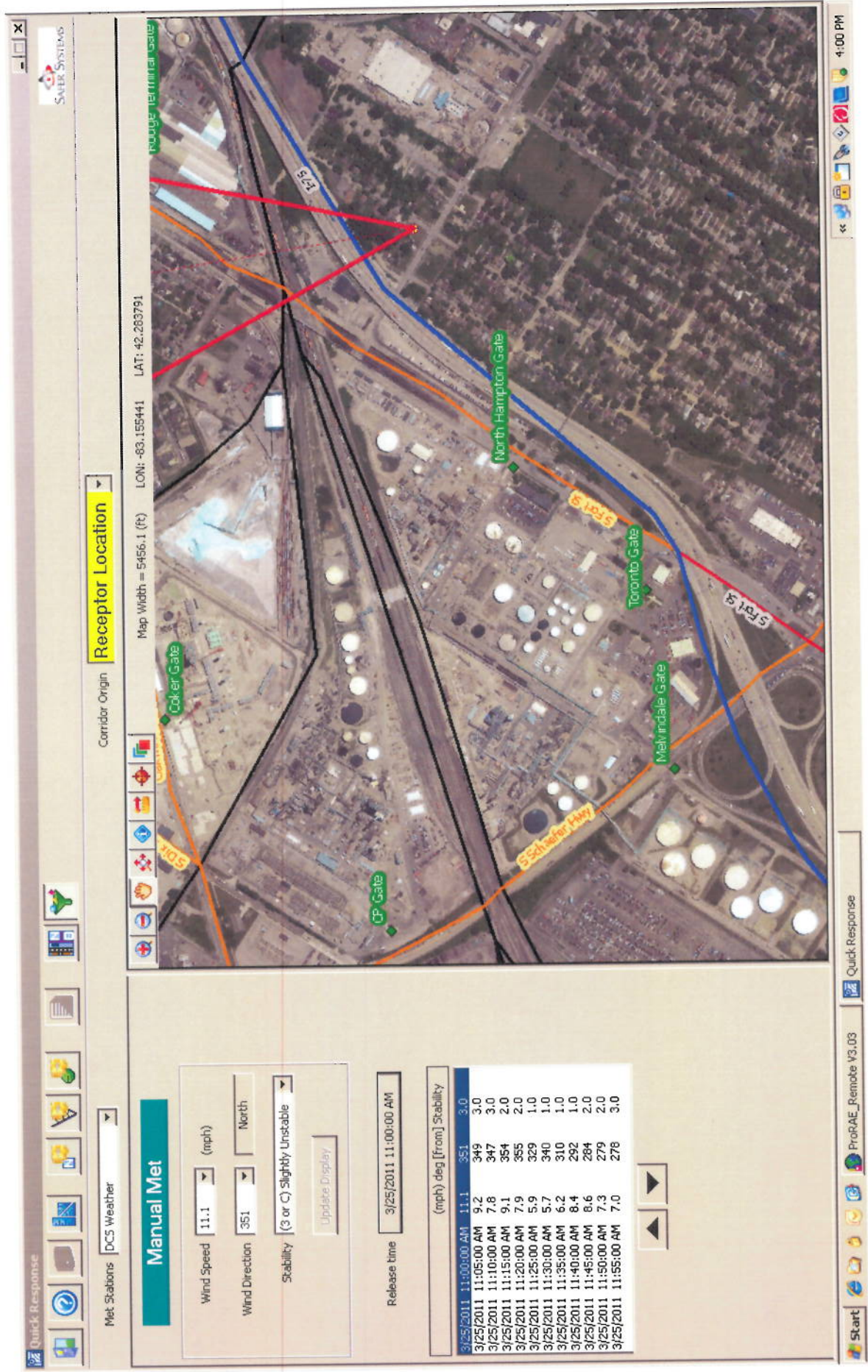
ProfRAE\_Remote V3.03

Quick Response

4:00 PM



March 25 2011 11:00 am





**Met Stations** DCS Weather

**Manual Met**

Wind Speed 10.4 (mph)

Wind Direction 279 West

Stability (3 or C) Slightly Unstable

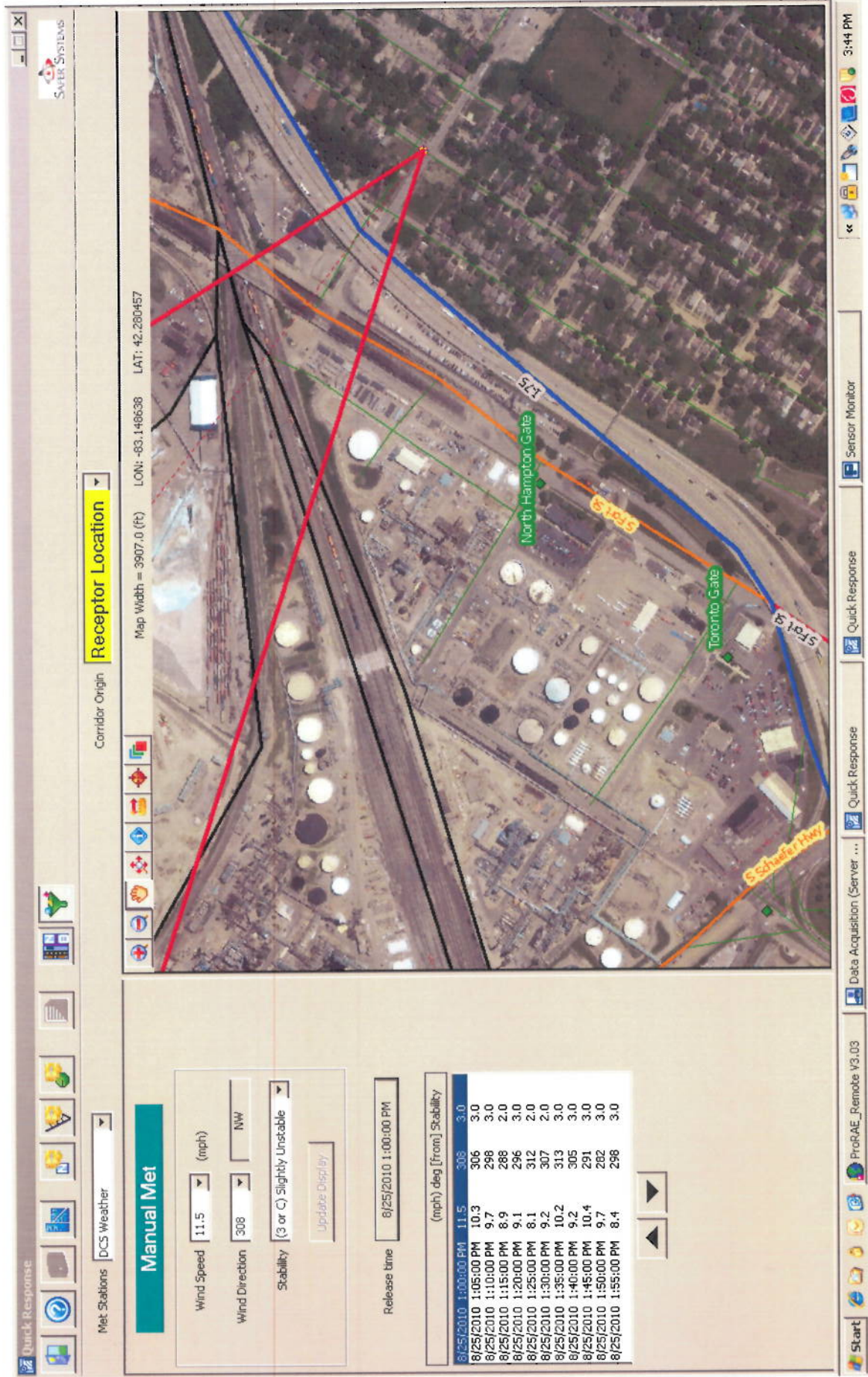
Update Display

Release time 3/25/2011 12:00:00 PM

(mph)	deg	[From]	Stability
3/25/2011 12:00:00 PM	10.4	279	3.0
3/25/2011 12:05:00 PM	9.4	286	3.0
3/25/2011 12:10:00 PM	6.2	298	2.0
3/25/2011 12:15:00 PM	9.2	286	2.0
3/25/2011 12:20:00 PM	9.9	297	2.0
3/25/2011 12:25:00 PM	9.8	297	3.0
3/25/2011 12:30:00 PM	9.2	299	3.0
3/25/2011 12:35:00 PM	8.7	312	2.0
3/25/2011 12:40:00 PM	7.6	317	2.0
3/25/2011 12:45:00 PM	7.6	296	2.0
3/25/2011 12:50:00 PM	7.9	293	2.0
3/25/2011 12:55:00 PM	8.4	285	2.0



March 25 2011 1:00 pm





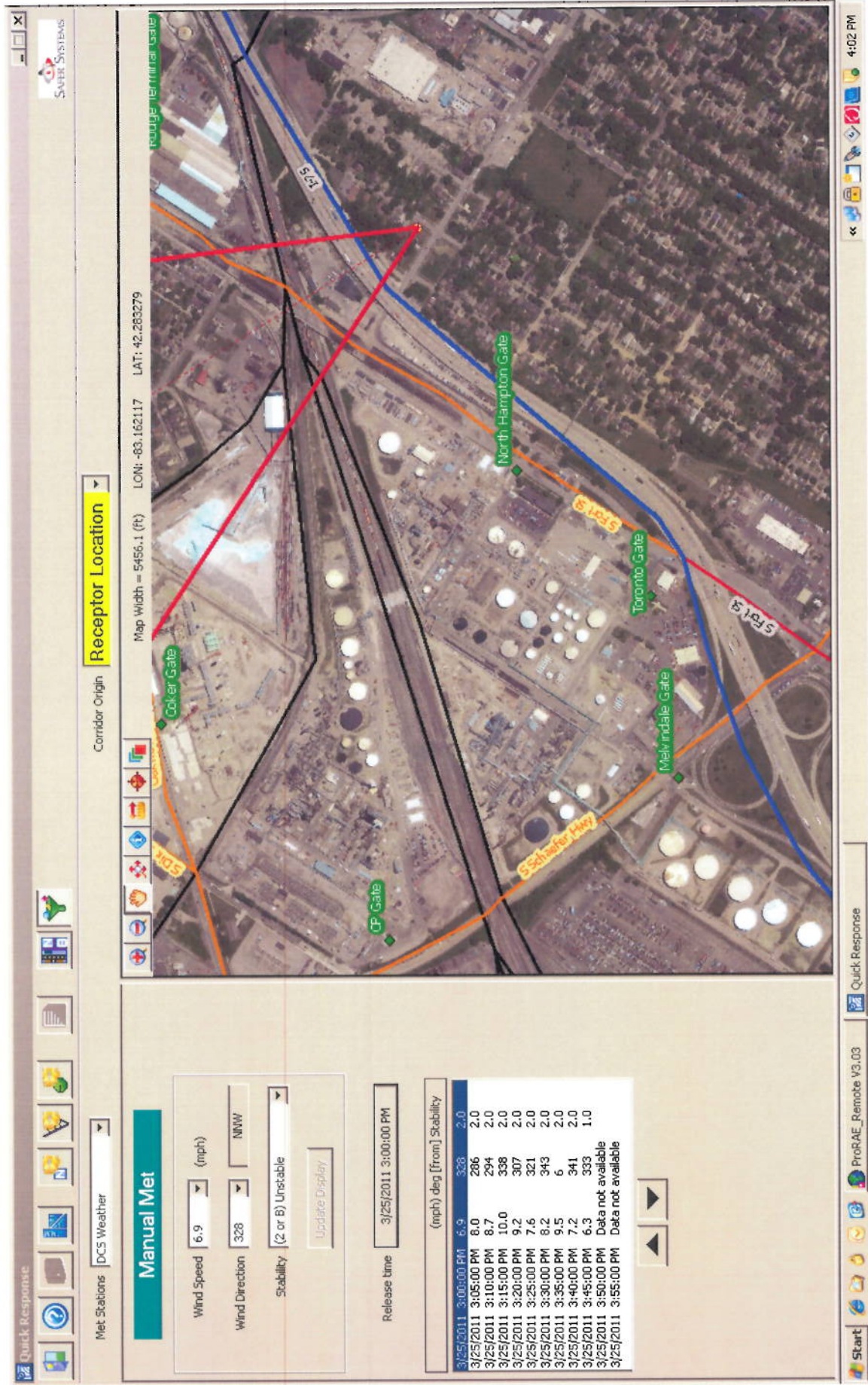
**Manual Met**

(mph)	deg [from]	Stability	
3/25/2011 1:00:00 PM	10.1	287	2.0
3/25/2011 1:05:00 PM	8.2	270	2.0
3/25/2011 1:10:00 PM	6.3	303	2.0
3/25/2011 1:15:00 PM	7.7	298	2.0
3/25/2011 1:20:00 PM	9.4	267	2.0
3/25/2011 1:25:00 PM	8.9	276	3.0
3/25/2011 1:30:00 PM	9.6	281	3.0
3/25/2011 1:35:00 PM	10.1	282	3.0
3/25/2011 1:40:00 PM	11.2	285	3.0
3/25/2011 1:45:00 PM	10.0	285	3.0
3/25/2011 1:50:00 PM	10.3	271	3.0
3/25/2011 1:55:00 PM	10.5	262	3.0

Release time: 3/25/2011 1:00:00 PM

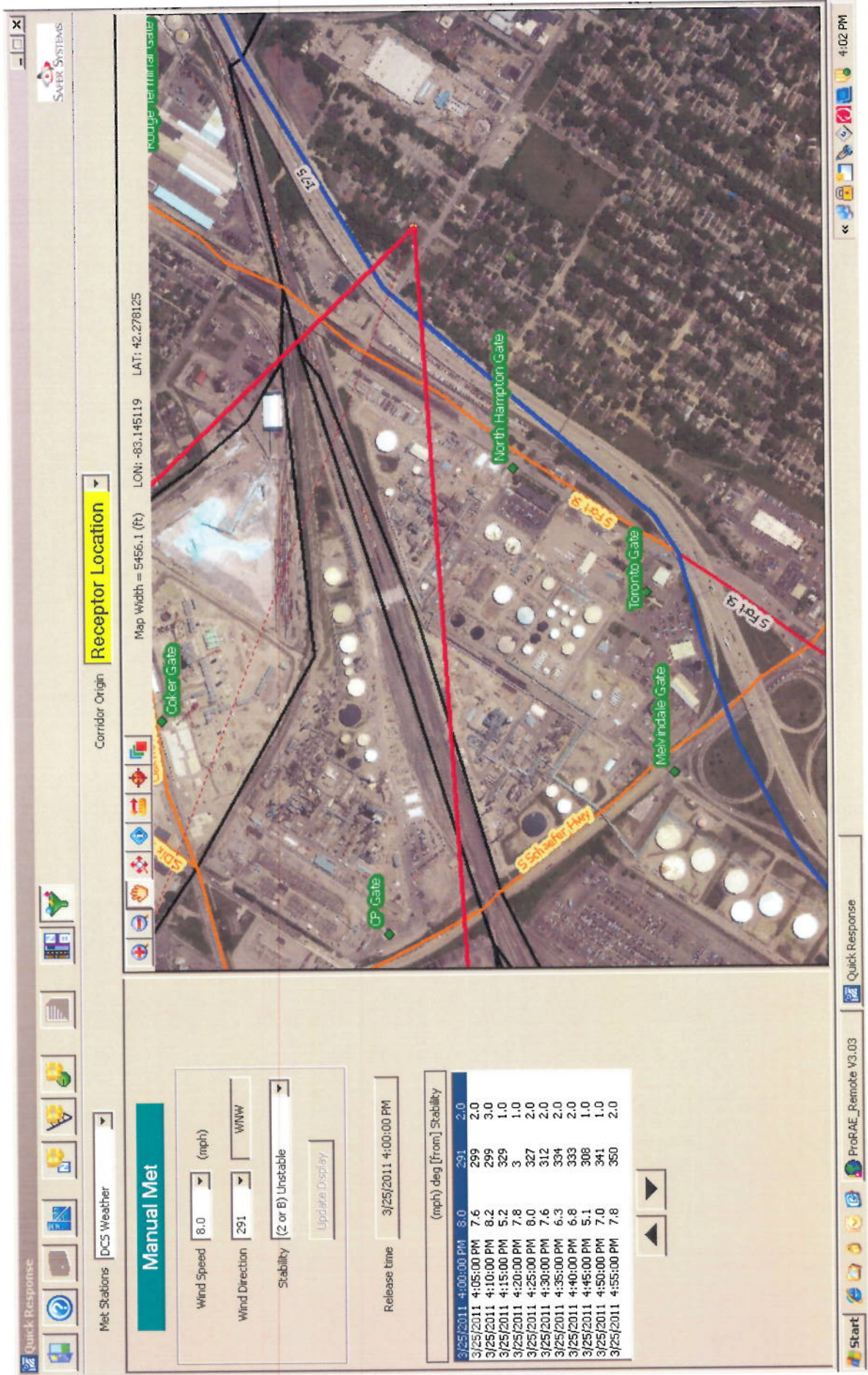


March 25 2011 3:00 pm



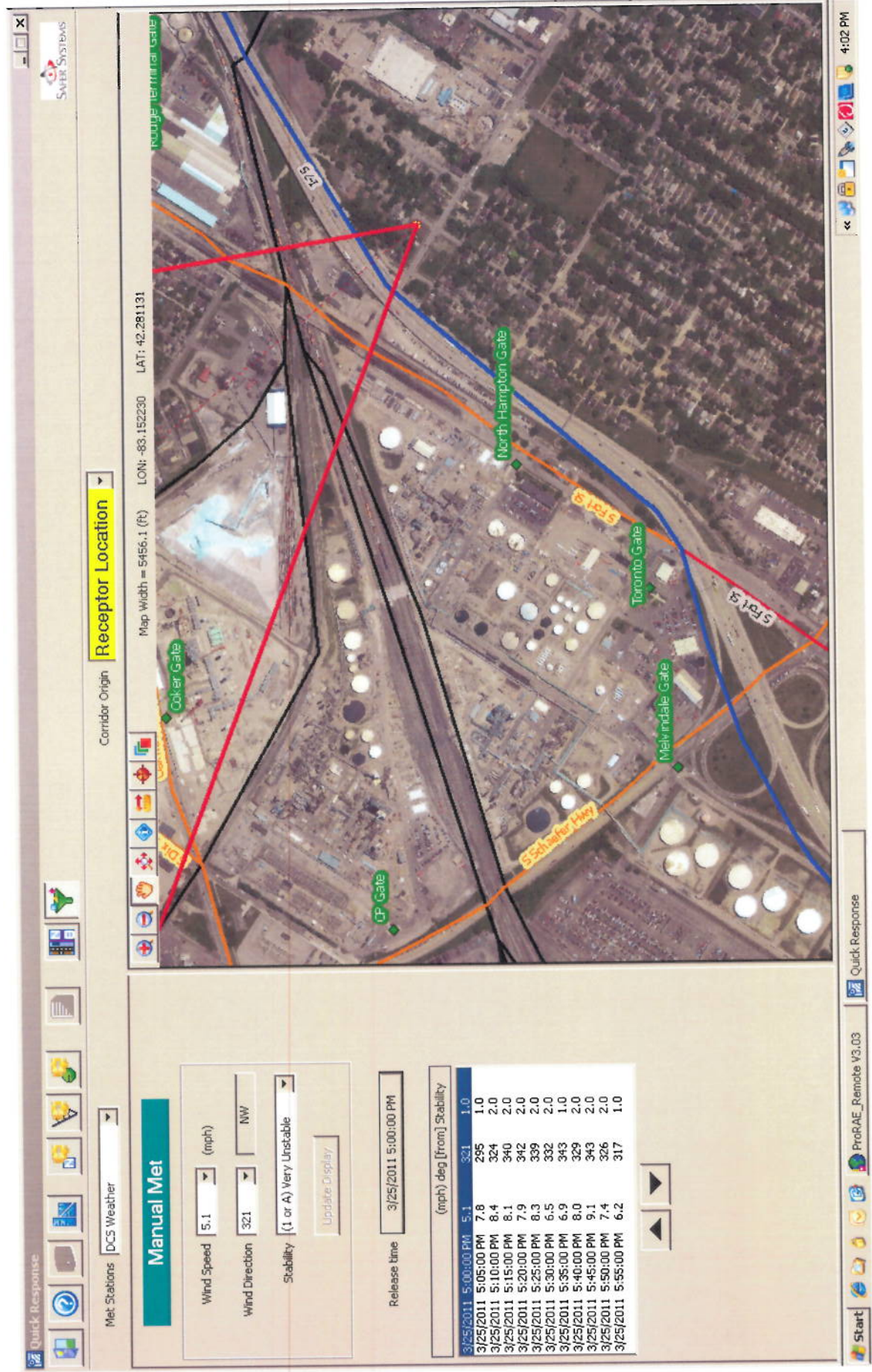


March 25 2011 4:00 pm



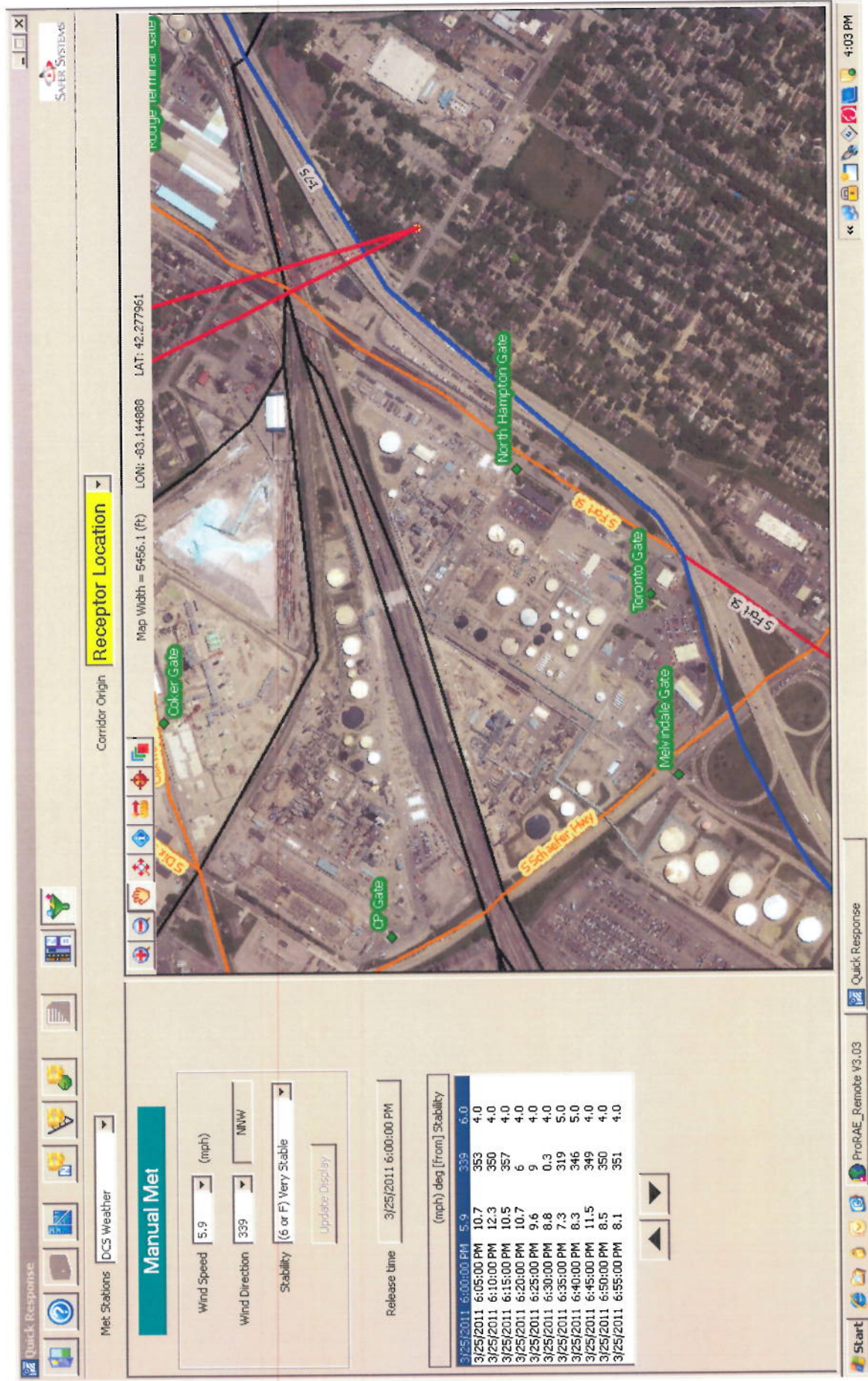


March 25 2011 5:00 pm



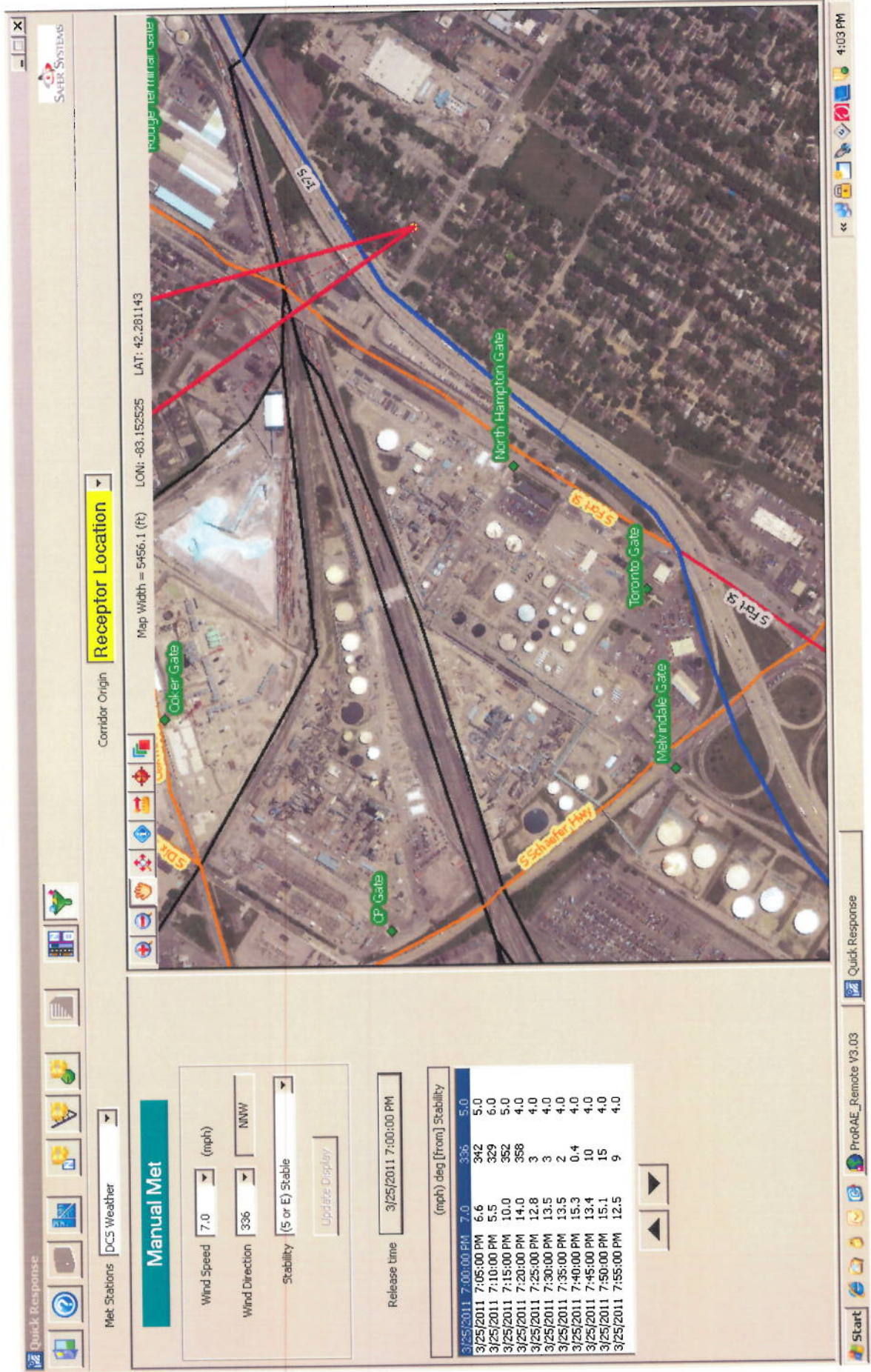


March 25 2011 6:00 pm



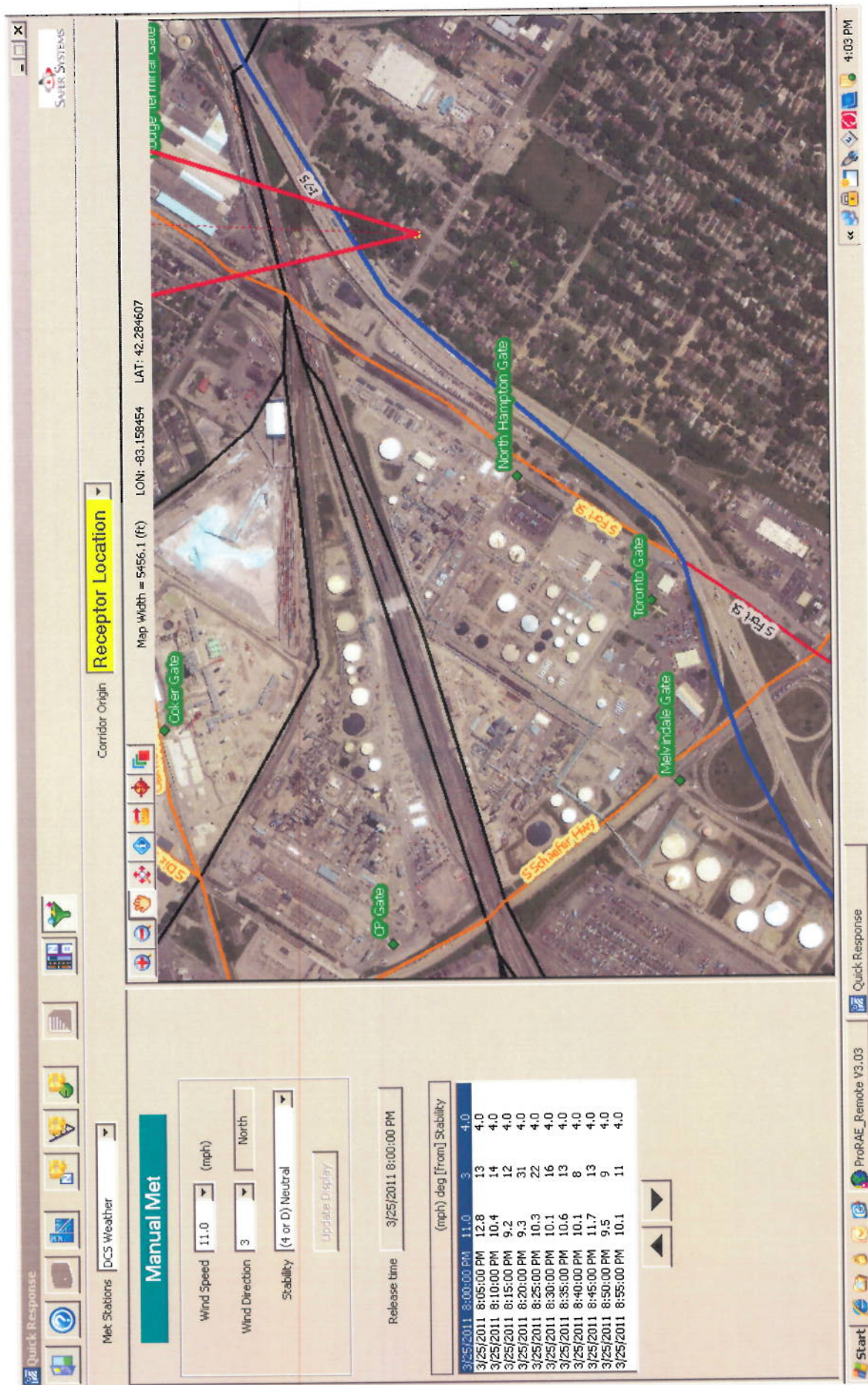


March 25 2011 7:00 pm





March 25 2011 8:00 pm





The screenshot displays the ProRAE V3.03 software interface. At the top, there is a menu bar with 'Quick Response' and 'Start' buttons. Below the menu bar, there are several toolbars containing icons for various functions. The main window is divided into several sections:

- Top Left:** A 'Manual Met' section with input fields for 'Wind Speed' (8.0 mph), 'Wind Direction' (27), and 'Stability' ((4 or D) Neutral). There is an 'Update Display' button below these fields.
- Top Right:** A 'Corridor Origin' section with a 'Receptor Location' dropdown menu. Below this, it shows 'Map Width = 5456.1 (ft)', 'LON: -83.152721', and 'LAT: 42.278956'.
- Center:** A large map of an industrial facility. The map shows various structures, including storage tanks and buildings. Several locations are marked with green dots and labeled: 'Coker Gate', 'CP Gate', 'North Hampton Gate', 'Toronto Gate', 'Melvindale Gate', and '55th Street'. A red line indicates a corridor path through the facility.
- Bottom Left:** A 'Release time' section with a dropdown menu showing '3/25/2011 9:00:00 PM'.
- Bottom Right:** A table showing wind speed and stability data over time. The table has two columns: '(mph)' and 'deg [from] Stability'. The data is for the date 3/25/2011, ranging from 9:00:00 PM to 9:55:00 PM.

	(mph)	deg [from] Stability
3/25/2011 9:00:00 PM	8.0	27
3/25/2011 9:05:00 PM	7.6	22
3/25/2011 9:10:00 PM	8.5	30
3/25/2011 9:15:00 PM	10.5	37
3/25/2011 9:20:00 PM	7.9	36
3/25/2011 9:25:00 PM	9.1	38
3/25/2011 9:30:00 PM	11.2	41
3/25/2011 9:35:00 PM	10.7	42
3/25/2011 9:40:00 PM	10.1	45
3/25/2011 9:45:00 PM	9.6	49
3/25/2011 9:50:00 PM	9.5	48
3/25/2011 9:55:00 PM	8.7	51



The screenshot displays the SAFER SYSTEMS software interface. At the top, the title bar reads "Quick Response" and "SAFER SYSTEMS". The main window is divided into several sections:

- Top Left:** A vertical toolbar with icons for various functions.
- Top Center:** A dropdown menu for "Met Stations" set to "DCS Weather".
- Top Right:** A dropdown menu for "Receptor Location" with a downward arrow.
- Map Area:** An aerial view of an industrial facility. Key features include:
  - Gates:** Labeled in green boxes: "Coker Gate", "JP Gate", "North Hampton Gate", "Toronto Gate", "Melvindale Gate".
  - Highways:** Labeled in yellow boxes: "S 140", "S 145", "S 146", "S 147", "S 148", "S 149", "S 150", "S 151", "S 152", "S 153", "S 154", "S 155", "S 156", "S 157", "S 158", "S 159", "S 160", "S 161", "S 162", "S 163", "S 164", "S 165", "S 166", "S 167", "S 168", "S 169", "S 170", "S 171", "S 172", "S 173", "S 174", "S 175", "S 176", "S 177", "S 178", "S 179", "S 180", "S 181", "S 182", "S 183", "S 184", "S 185", "S 186", "S 187", "S 188", "S 189", "S 190", "S 191", "S 192", "S 193", "S 194", "S 195", "S 196", "S 197", "S 198", "S 199", "S 200".
  - Other Labels:** "Map Width = 5456.1 (ft)", "LAT: 42.278184", "LONG: -83.147337".
- Bottom Left:** A section titled "Manual Met" with input fields for:
  - Wind Speed: 8.0 (mph)
  - Wind Direction: 47 (NE)
  - Stability: (4 or D) Neutral
  - Release time: 3/25/2011 10:00:00 PM
- Bottom Center:** A table showing wind speed and stability data over time.
 

(mph)	deg	[From]	Stability
3/25/2011 10:00:00 PM	8.0	47	4.0
3/25/2011 10:05:00 PM	6.4	42	4.0
3/25/2011 10:10:00 PM	7.1	47	4.0
3/25/2011 10:15:00 PM	6.7	49	4.0
3/25/2011 10:20:00 PM	7.9	53	4.0
3/25/2011 10:25:00 PM	7.4	52	5.0
3/25/2011 10:30:00 PM	8.3	50	5.0
3/25/2011 10:35:00 PM	7.2	50	5.0
3/25/2011 10:40:00 PM	8.3	48	5.0
3/25/2011 10:45:00 PM	8.0	47	4.0
3/25/2011 10:50:00 PM	7.0	45	4.0
3/25/2011 10:55:00 PM	7.8	48	4.0
- Bottom Right:** A vertical toolbar with icons for various functions.



March 25 2011 11:00 pm





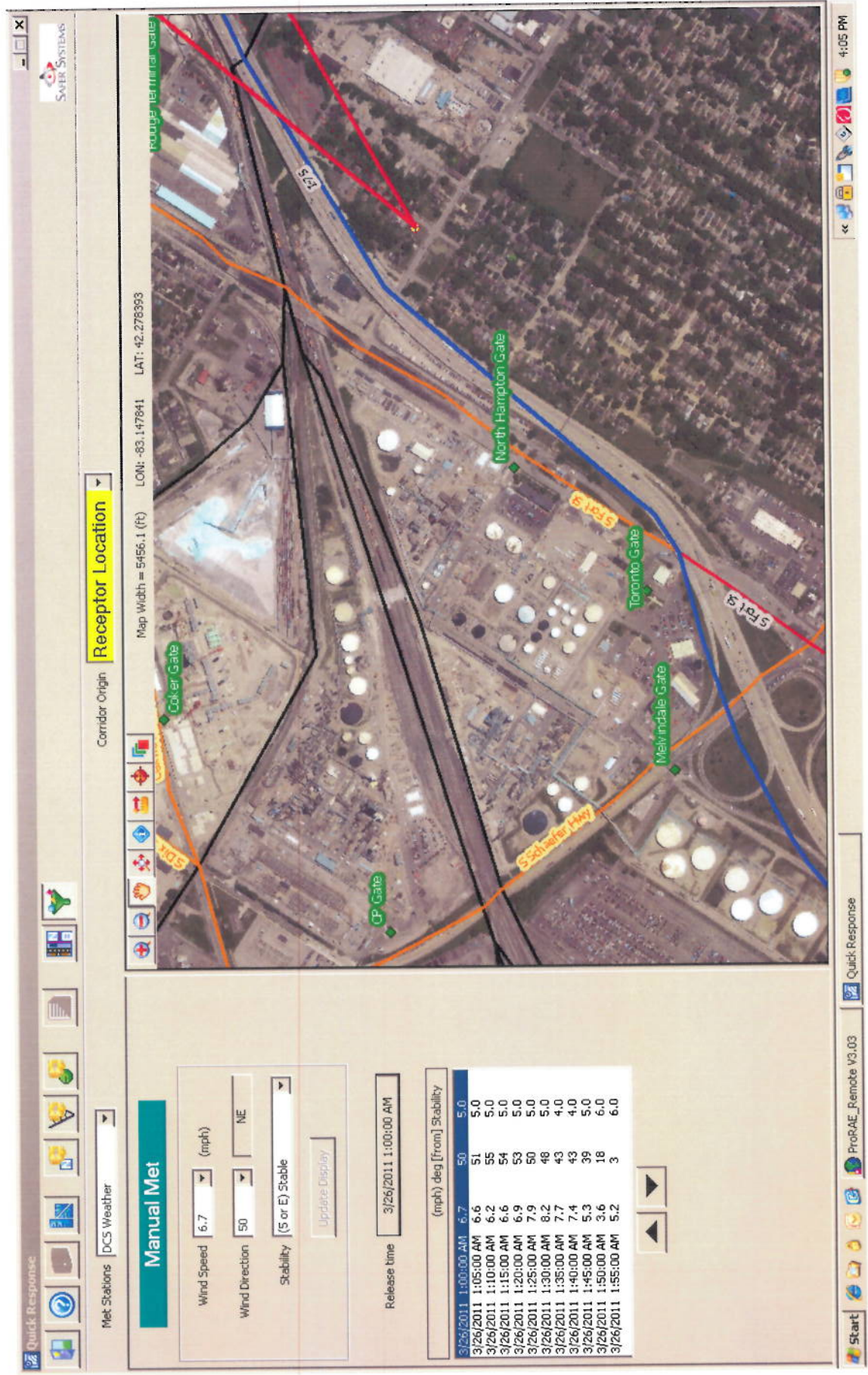
The screenshot displays the SAFER SYSTEMS software interface. At the top, the title bar shows 'SAFER SYSTEMS' and the time '4:05 PM'. The interface includes a toolbar with various icons for navigation and data management. The main window is divided into several sections:

- Top Section:** Contains a map of an industrial area with various gates labeled: 'Coker Gate', 'North Hampton Gate', 'Toronto Gate', 'Melvindale Gate', and 'CP Gate'. The map also shows 'Schooner Hwy' and '5195'. A red line indicates a path or boundary. The map width is 5456.1 (ft) and the latitude is 42.279942.
- Left Section:** Contains a 'Manual Met' section with a 'Wind Speed' of 5.2 (mph), 'Wind Direction' of 45, and 'Stability' of (6 or F) Very Stable. There is an 'Update Display' button. Below this is a 'Release time' field showing '3/26/2011'.
- Right Section:** Contains a table with the following data:
 

(mph)	deg [From]	Stability
3/26/2011 12:00:00 AM	5.2	45
3/26/2011 12:05:00 AM	5.7	48
3/26/2011 12:10:00 AM	6.4	49
3/26/2011 12:15:00 AM	6.2	50
3/26/2011 12:20:00 AM	6.0	51
3/26/2011 12:25:00 AM	5.4	53
3/26/2011 12:30:00 AM	5.4	51
3/26/2011 12:35:00 AM	6.2	51
3/26/2011 12:40:00 AM	6.6	52
3/26/2011 12:45:00 AM	6.8	51
3/26/2011 12:50:00 AM	6.9	51
3/26/2011 12:55:00 AM	7.0	50

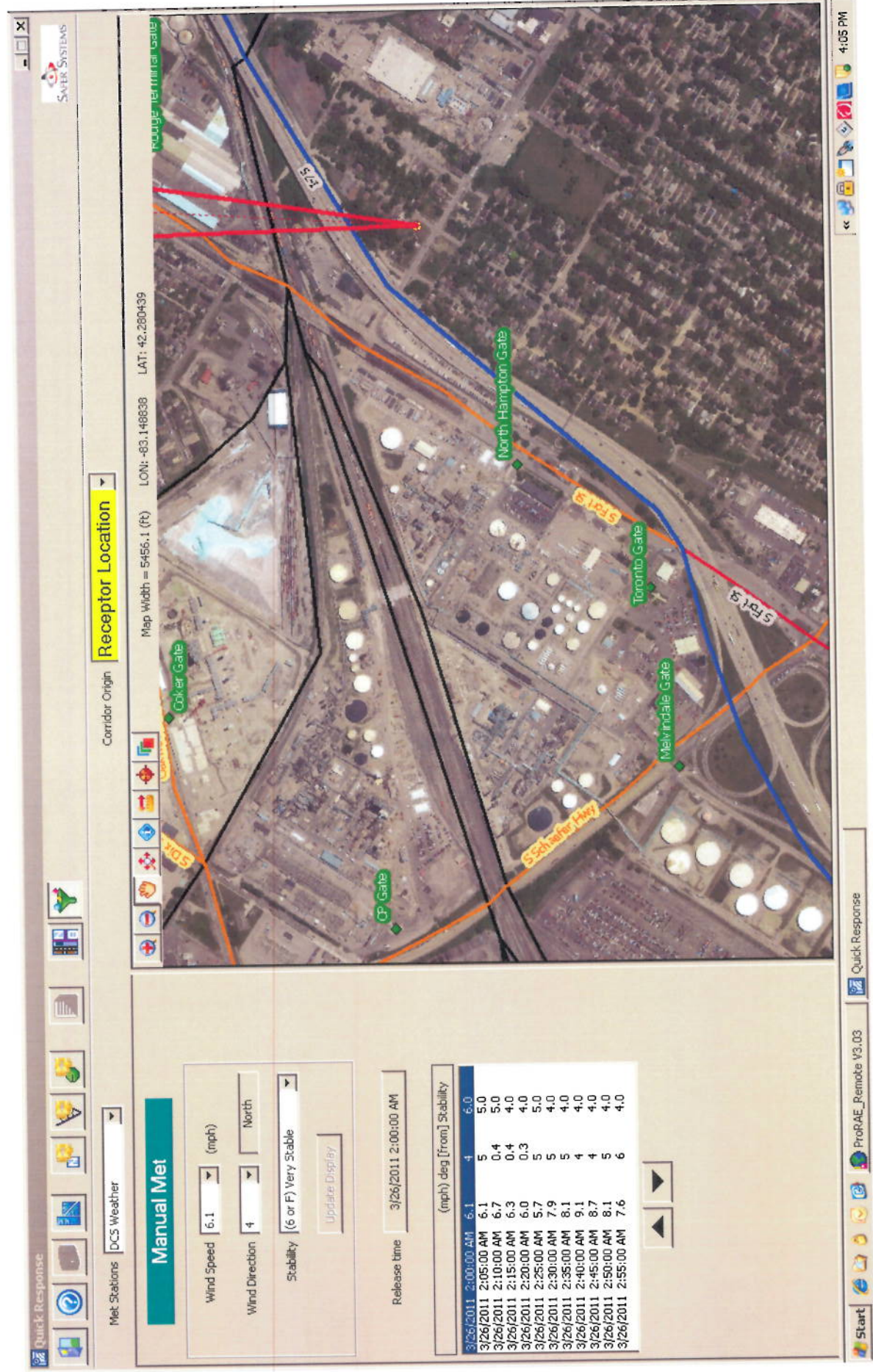


March 26 2011 1:00 am





March 26 2011 2:00 am





The screenshot displays the SAFER SYSTEMS software interface. At the top, the title bar shows standard window controls and the application name. The main interface is divided into several sections:

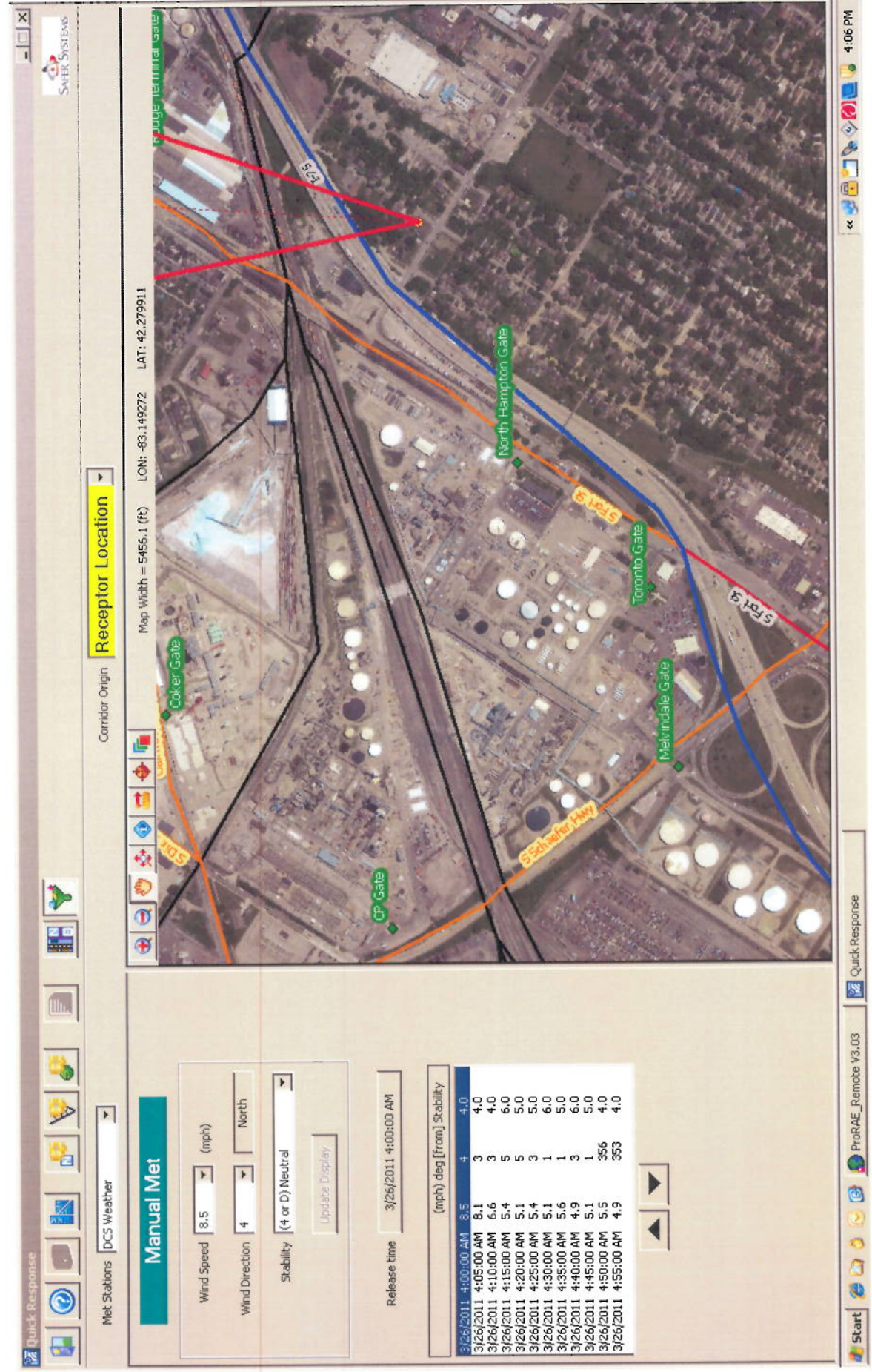
- Top Bar:** Contains the "SAFER SYSTEMS" logo and a "Quick Response" button.
- Left Panel:** Includes a "Met Stations" dropdown menu set to "DCS Weather", a "Corridor Origin" dropdown menu set to "Receptor Location", and a "Manual Met" section with input fields for Wind Speed (6.2 mph), Wind Direction (8 North), and Stability (S or E) Stable, along with an "Update Display" button.
- Map Area:** A large aerial map showing an industrial facility with various storage tanks and buildings. Several locations are marked with green labels: "Coker Gate", "JP Gate", "North Hampton Gate", "Toronto Gate", "Melvindale Gate", and "50th St". A red line indicates a corridor path across the map.
- Bottom Panel:** Contains a "Release time" dropdown menu set to "3/26/2011 3:00:00 AM" and a table showing wind speed and stability data over time.

	(mph) deg [from] Stability			
	6.2	8	5	5.0
3/26/2011 3:00:00 AM	6.2	8	5	5.0
3/26/2011 3:05:00 AM	7.4	5	3	4.0
3/26/2011 3:10:00 AM	7.6	3	4	4.0
3/26/2011 3:15:00 AM	7.1	4	4	4.0
3/26/2011 3:20:00 AM	6.7	4	4	4.0
3/26/2011 3:25:00 AM	6.9	5	4	4.0
3/26/2011 3:30:00 AM	6.6	5	4	4.0
3/26/2011 3:35:00 AM	7.4	5	4	4.0
3/26/2011 3:40:00 AM	8.4	4	4	4.0
3/26/2011 3:45:00 AM	8.6	4	4	4.0
3/26/2011 3:50:00 AM	8.4	4	4	4.0
3/26/2011 3:55:00 AM	8.4	4	4	4.0

(mch) deg [from]	Stability
3/26/2011 3:00:00 AM	6.2
3/26/2011 3:05:00 AM	7.4
3/26/2011 3:10:00 AM	7.6
3/26/2011 3:15:00 AM	7.1
3/26/2011 3:20:00 AM	6.7
3/26/2011 3:25:00 AM	6.9
3/26/2011 3:30:00 AM	6.6
3/26/2011 3:35:00 AM	7.4
3/26/2011 3:40:00 AM	8.4
3/26/2011 3:45:00 AM	8.6
3/26/2011 3:50:00 AM	8.4
3/26/2011 3:55:00 AM	8.4

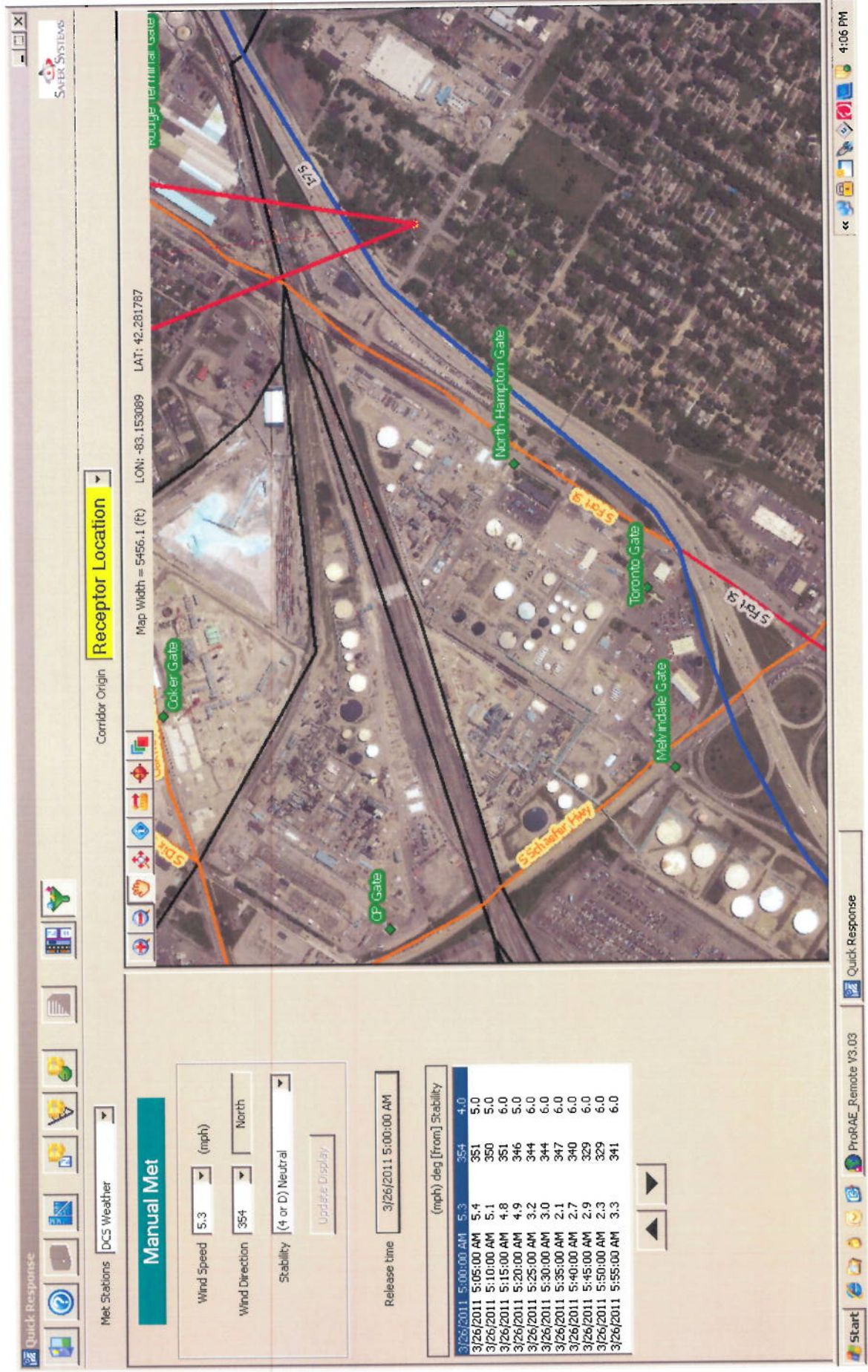


March 26 2011 4:00 am



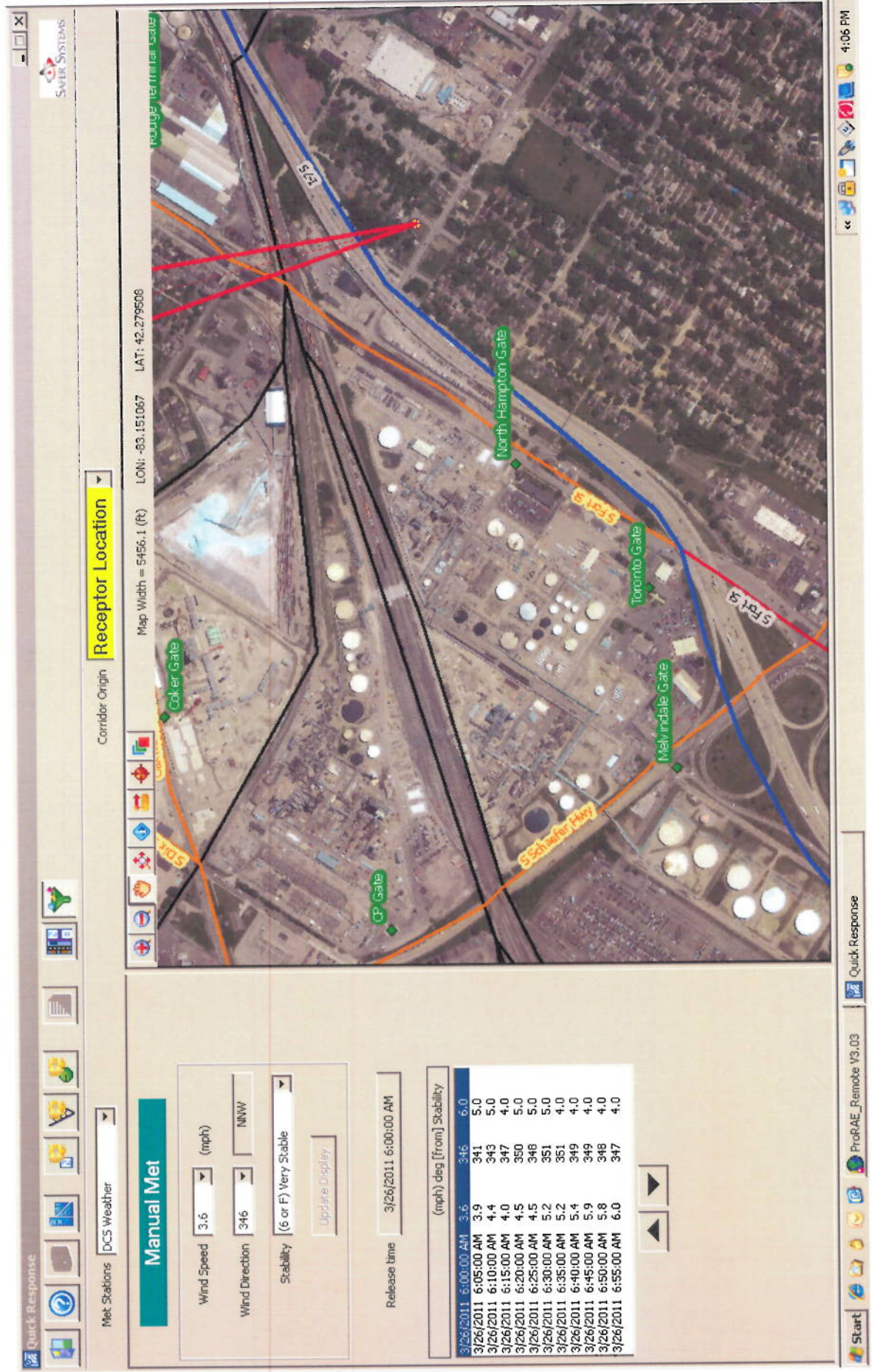


March 26 2011 5:00 am



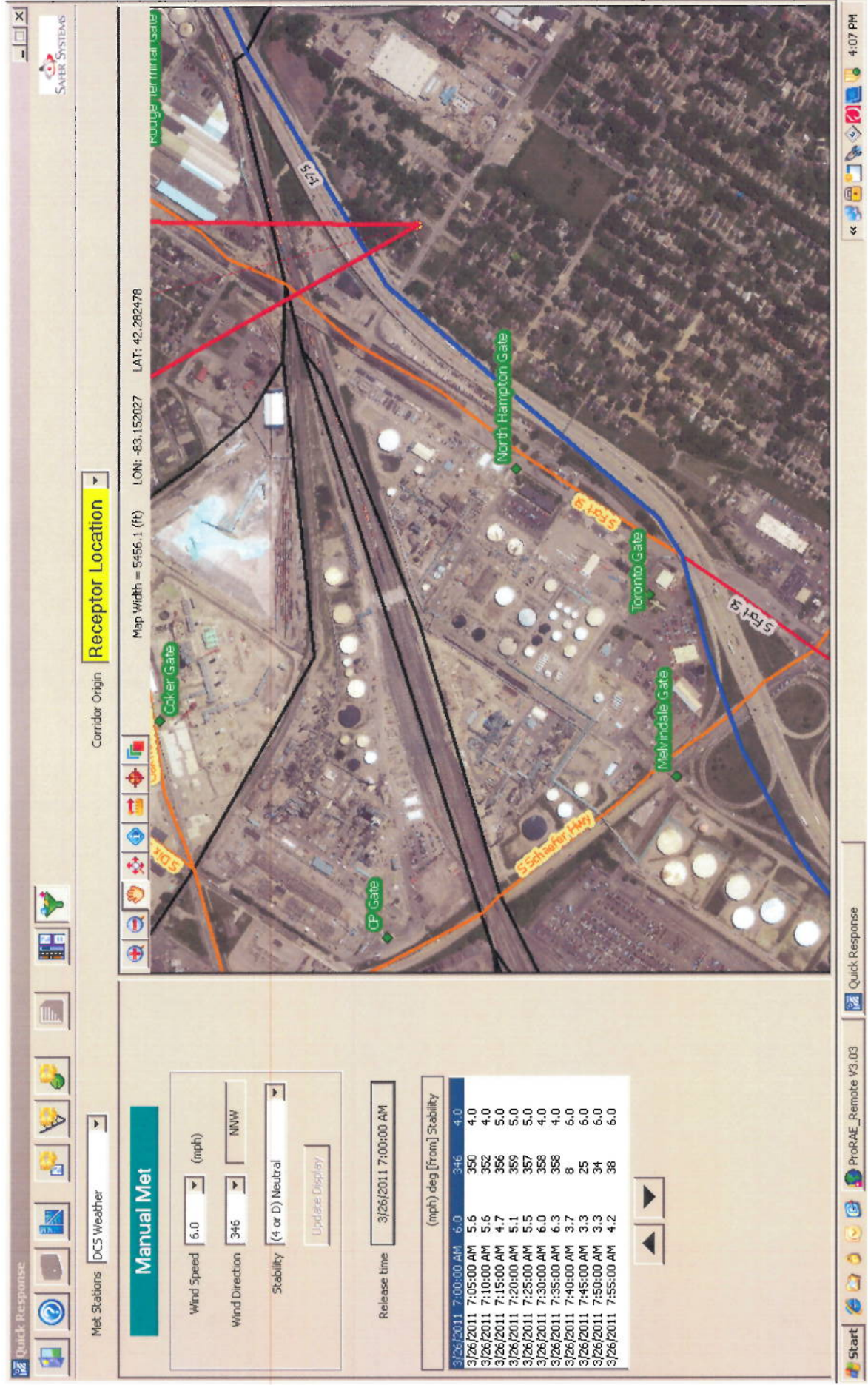


March 26 2011 6:00 am





March 26 2011 7:00 am





Met Stations: DCS Weather

Corridor Origin: Receptor Location

Map Width = 5456.1 (ft)    LON: -83.145903    LAT: 42.278564

**Manual Met**

Wind Speed: 4.7 (mph)

Wind Direction: 38 NE

Stability: (2 or E) Unstable

Update Display

Release time: 3/26/2011 8:00:00 AM

(mph)	deg [from]	Stability	
3/26/2011 8:00:00 AM	4.7	38	2.0
3/26/2011 8:05:00 AM	6.2	43	3.0
3/26/2011 8:10:00 AM	6.6	38	3.0
3/26/2011 8:15:00 AM	6.6	42	4.0
3/26/2011 8:20:00 AM	7.6	44	4.0
3/26/2011 8:25:00 AM	8.5	46	4.0
3/26/2011 8:30:00 AM	8.3	47	4.0
3/26/2011 8:35:00 AM	7.2	47	3.0
3/26/2011 8:40:00 AM	5.8	48	2.0
3/26/2011 8:45:00 AM	7.4	45	2.0
3/26/2011 8:50:00 AM	8.1	45	3.0
3/26/2011 8:55:00 AM	7.5	44	4.0



March 26 2011 9:00 am

