

Cheeka Peak Observatory (CPO)

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Project Partners

ORCAA is working with various stakeholders, including the Makah Tribe, EPA Region 10, the University of Washington, Puget Sound Clean Air Agency (PSCAA) and the Washington State Department of Ecology, to change the emphasis of the site from short-term research to a long-term background air quality monitoring site.

Project Goals

- Change the emphasis of the site from shortterm research to a long-term background air quality monitoring site.
- Develop into an NCORE facility
- Focus on the transition of the operation, maintenance and real-time data acquisition at CPO to assure consistency with Washington state air monitoring network.

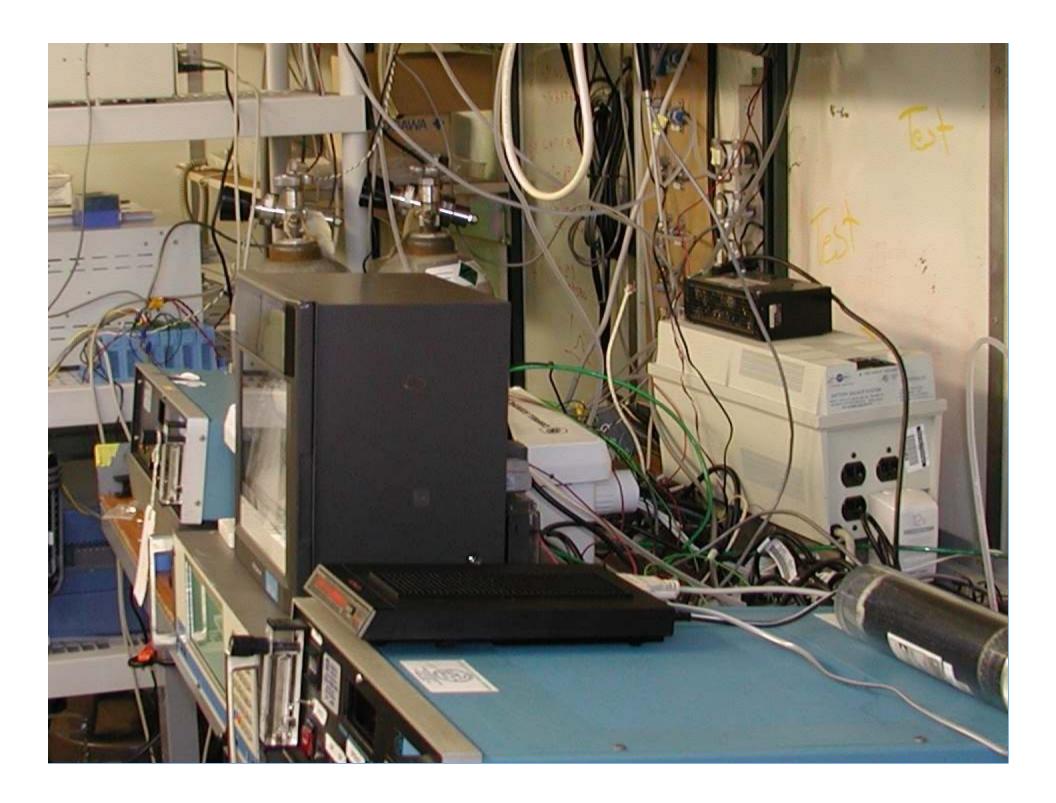
Description

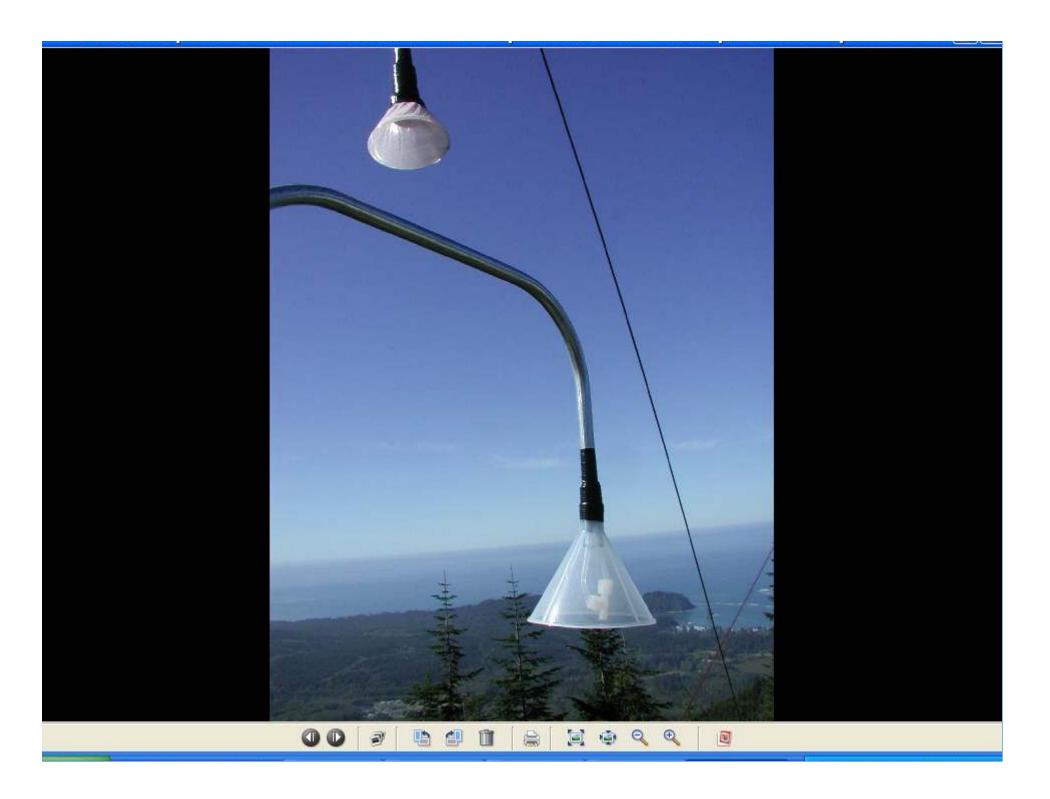
- Use monitors, analyzers, and methods that are used in the Washington state and local monitoring network
- Use EPA SOP's as a guide for implementing trace gas monitoring.

Project Plan

Current measurements of wind speed-direction,
Temperature, Relative Humidity, Total Solar Radiation,
NOy, SO2, O₃ and PM_{2.5}-Visibility-light scatter by heated
nephelometer allowing researchers and regulators to
identify and characterize major transport episodes, and to
identify the likely sources (e.g. dust, smoke). These
measurements will provide additional tools to characterize
important source types and new measurements will be
added to the existing measurements at CPO over the next
several years as funding allows.

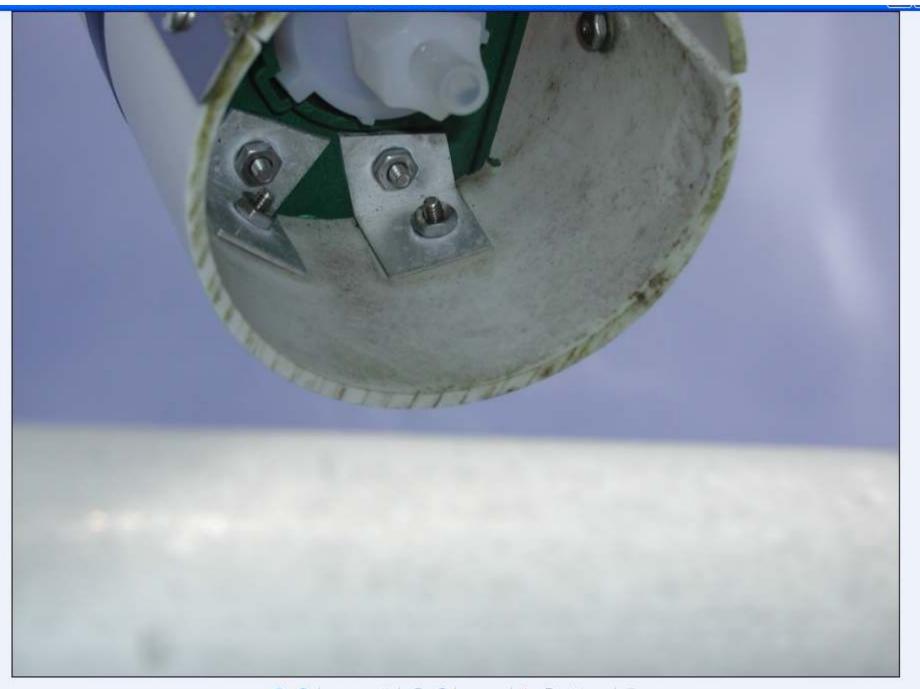


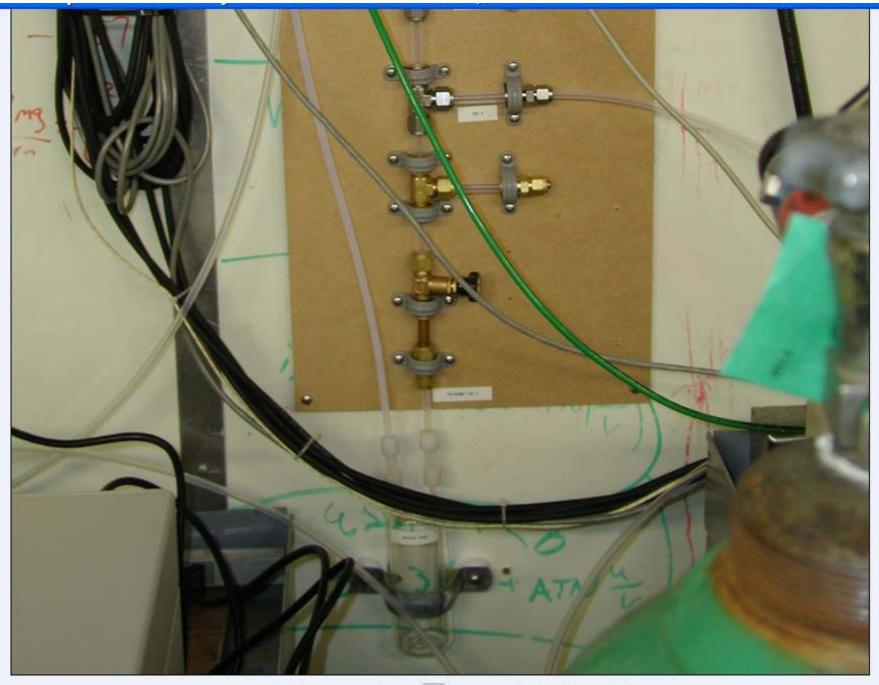




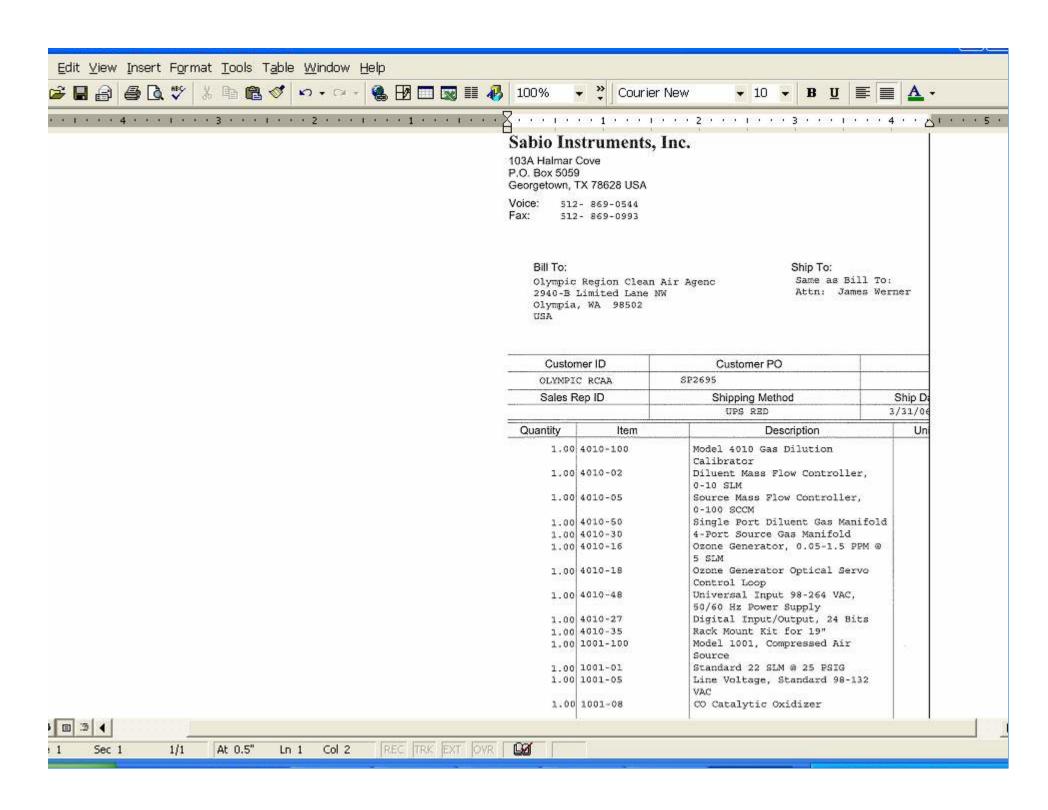


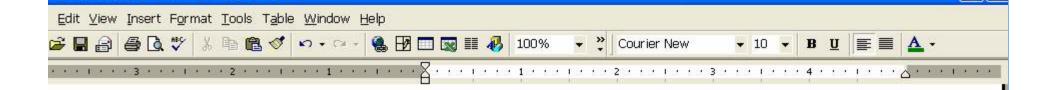












Quoted To:

Olympic Region Clean Air Agenc 2940-B Limited Lane NW Olympia, WA 98502 USA

Customer: James P. Werner

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Voice: 360 586 1044 Ext. 1

Customer ID	Good Thru	Payment Terms
OLYMPIC RCAA	8/17/06	Net 30 Days

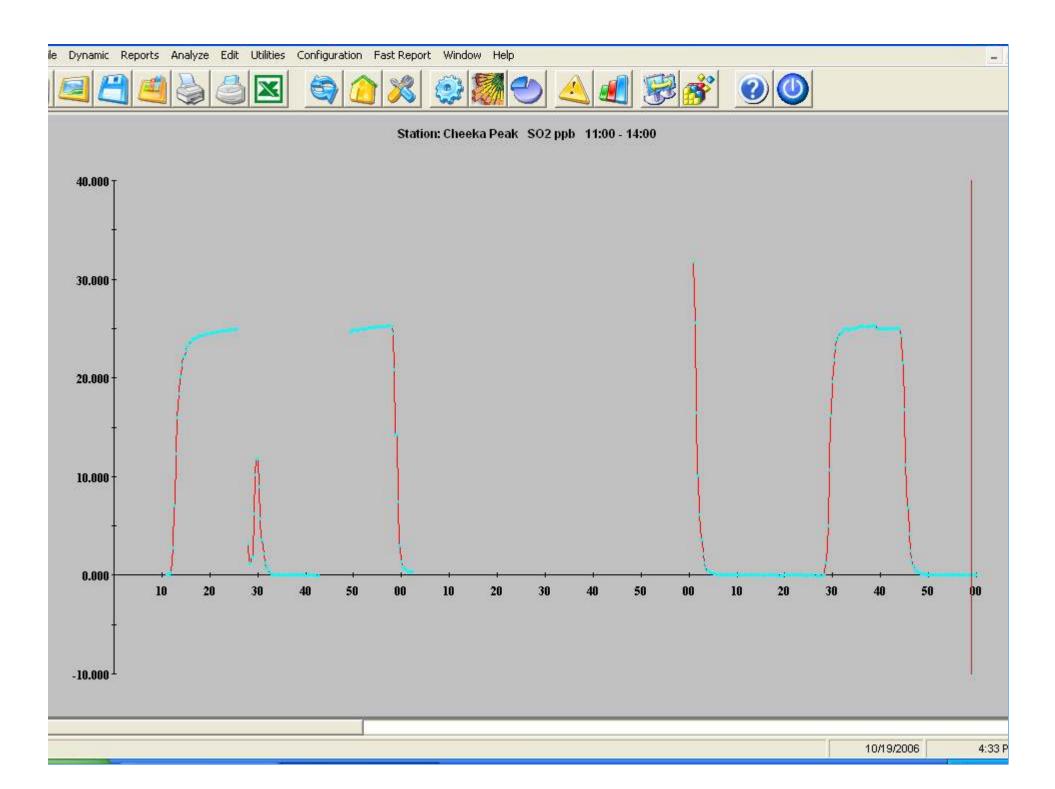
Quantity	Item	Description	Unit
1.00	1001-2104	Purafil, Per Pound, (Removes NOX, NO2, NO)	2
1.00	1001-2105	Purakol, Per Pound, (Removes SO2, O3, H2S)	3
1.00	1001-2079	Hopcalite, Per Pound, (Removes CO and Light Hydrocarbons)	e e
4.00	1001-3618	Inlet Filter for Pump, Removes Particulates	
		Media for two years of operation. Inlet filters for two years operation with change semi-annually. Change filters more often if major discolorization occurs before six month interval.	

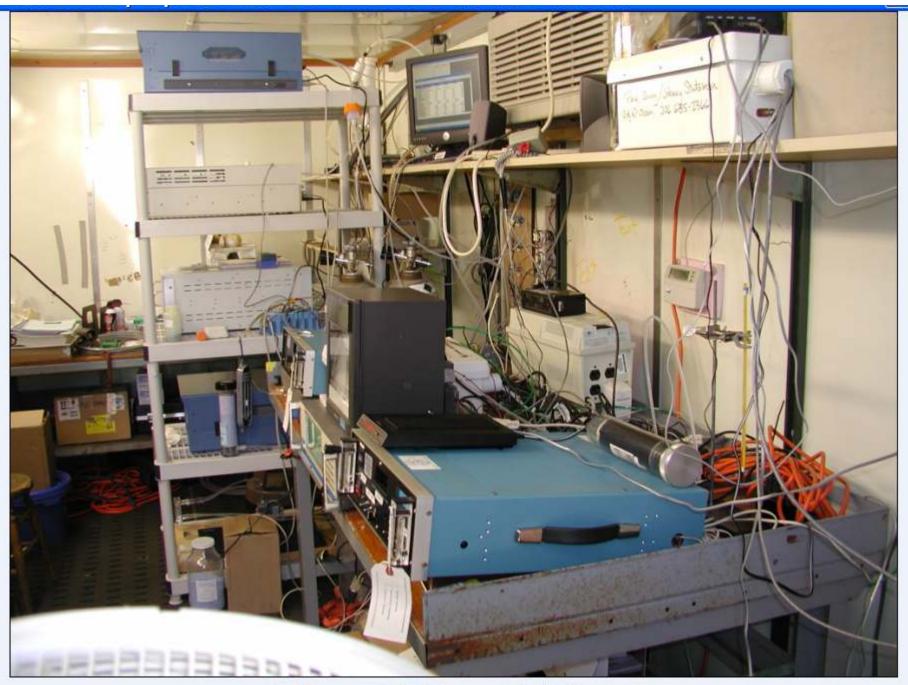
Calibration Gas CC 105850

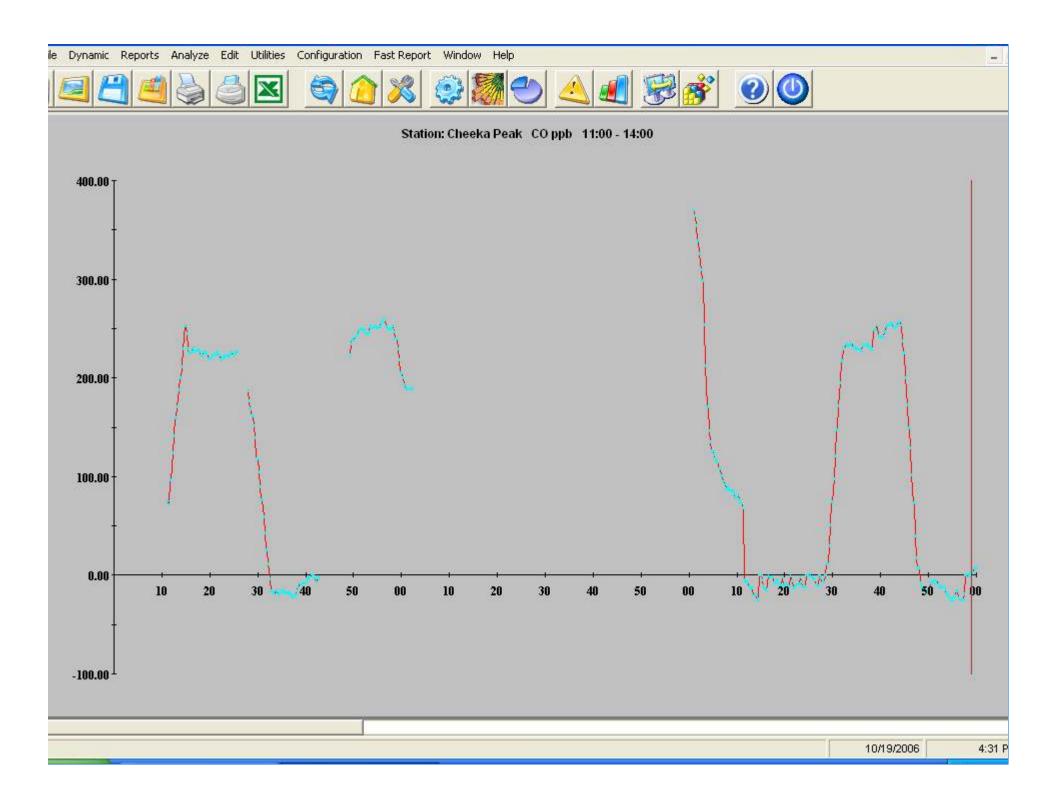
- CO = 100.6 ppm
- NO/NOX = 10.03 ppm
- SO2 = 9.9 ppm

NOY Converter Test CC101305 N-Proply Nitrate = 1.007 ppmv

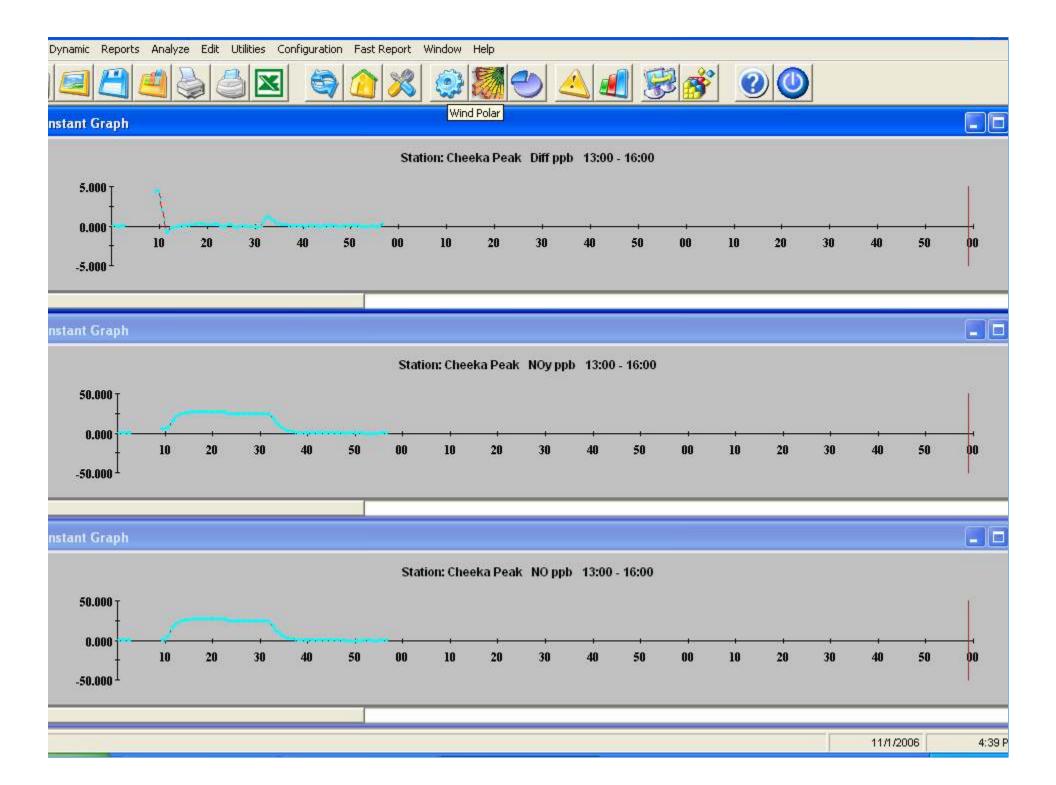


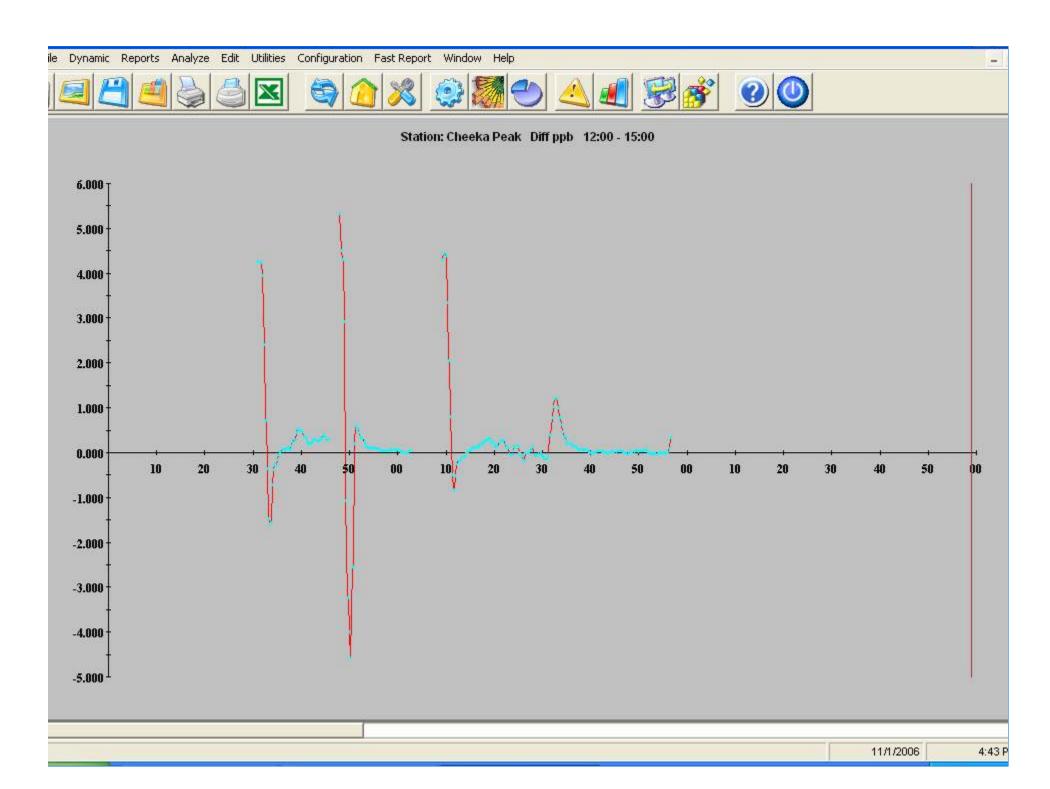


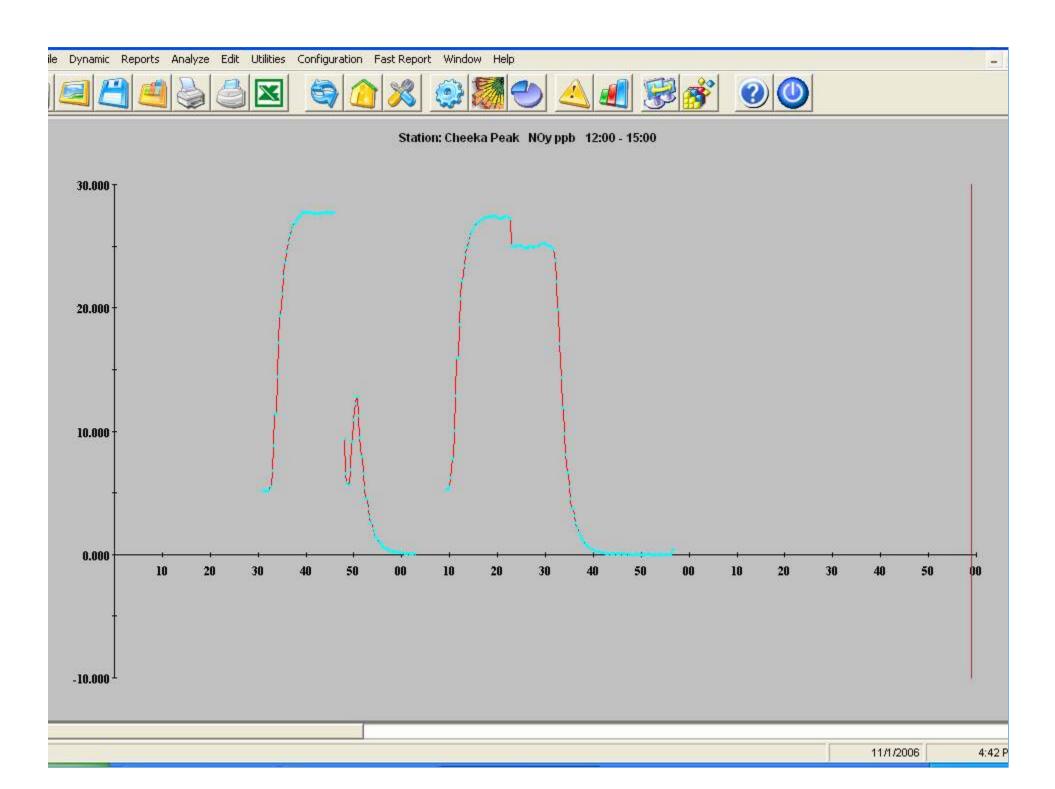


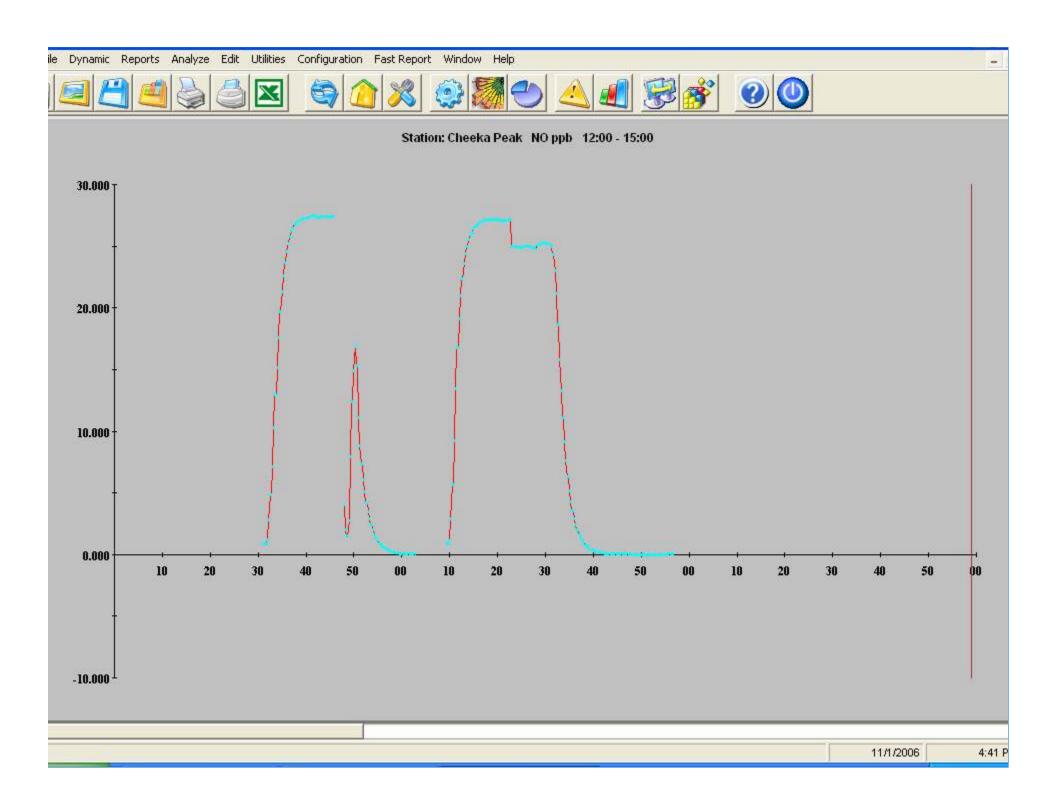


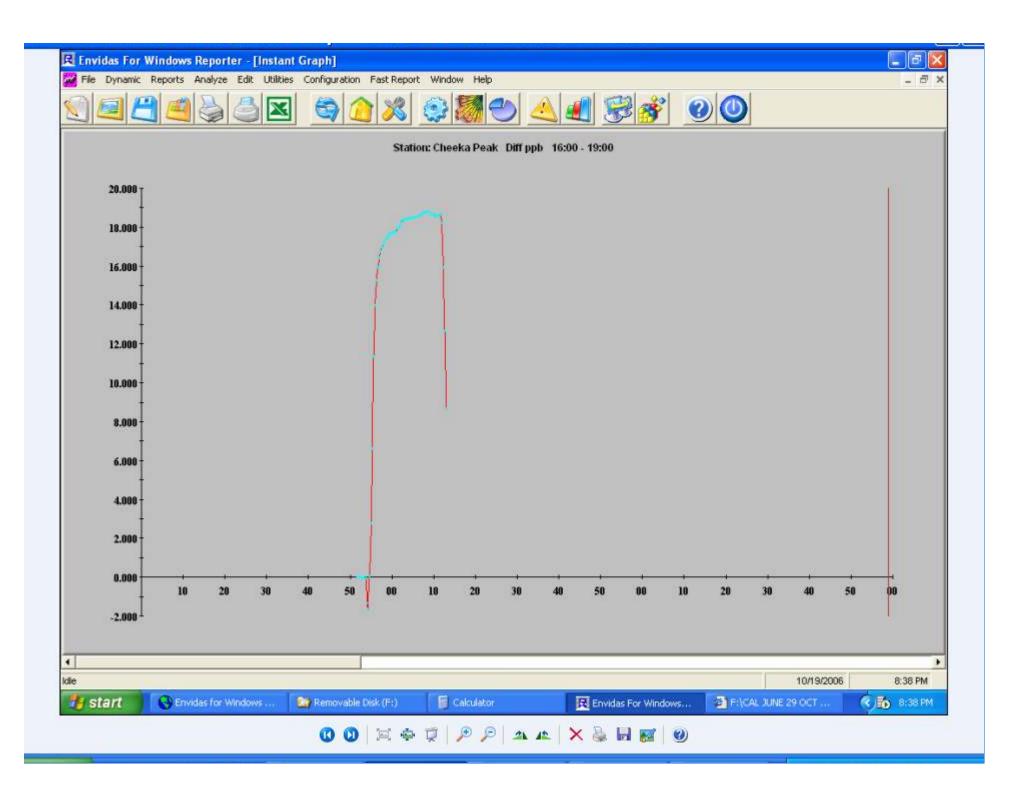


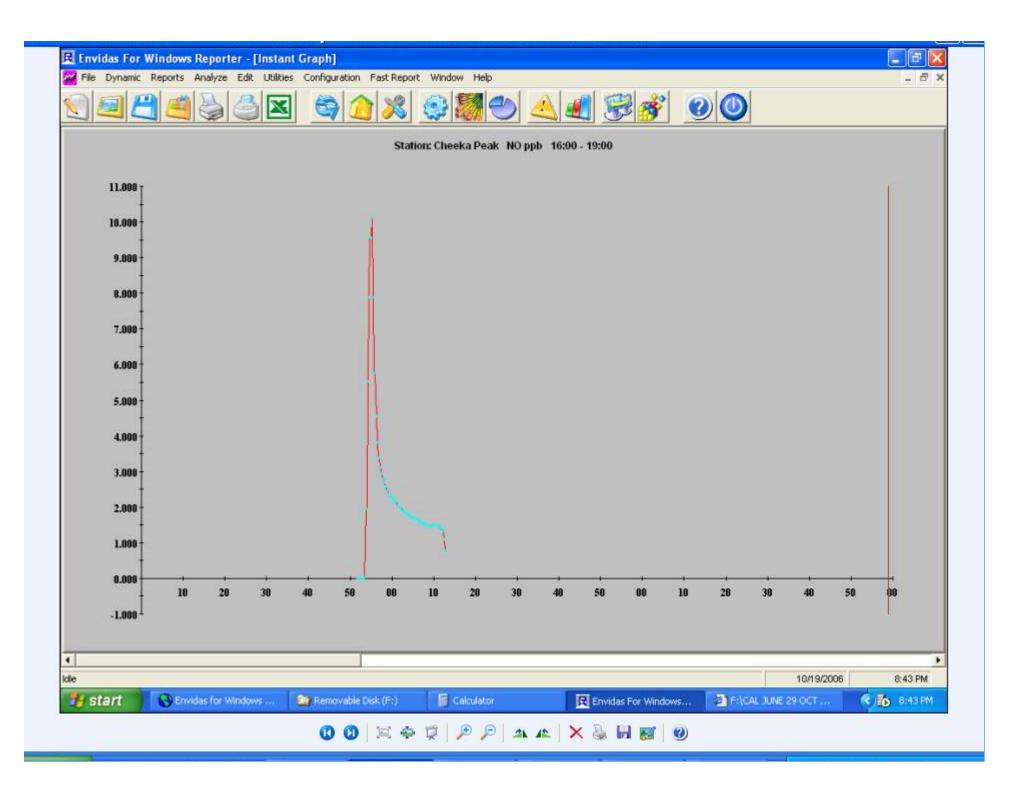


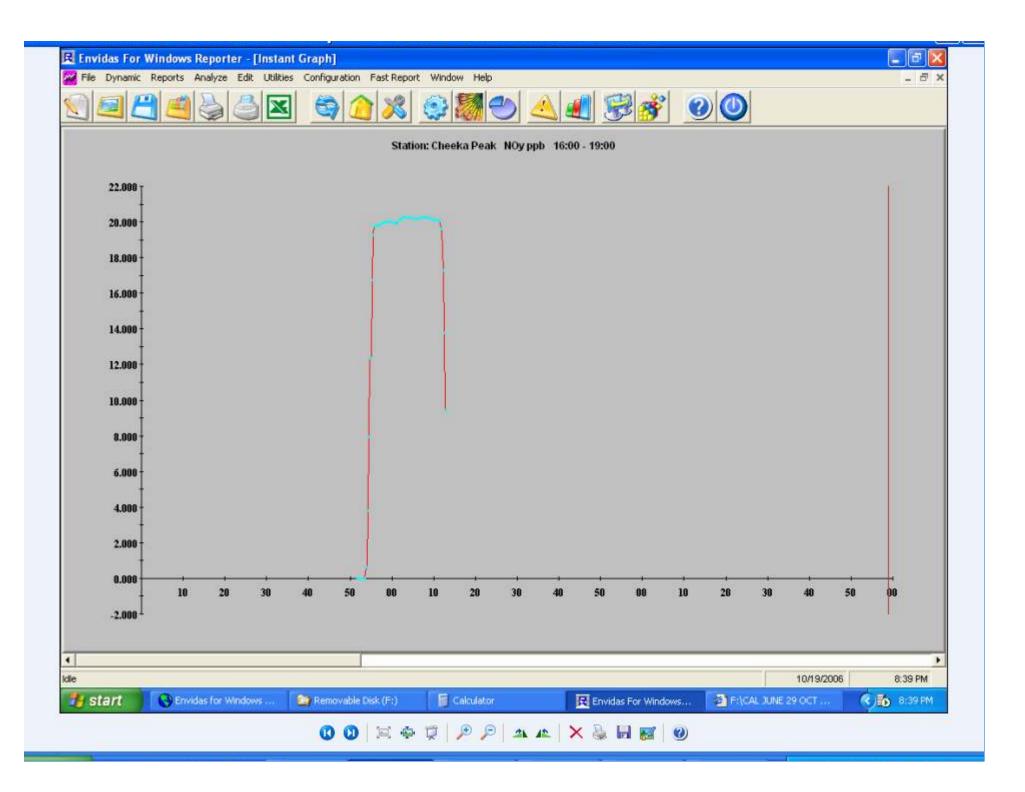












Daily Calibration

Date Tim	e	Mon.	Units	ZRef.	SRef.	ZMes.	SMes.	Zero	Factor	SDiff%
10/15/2006 2	21:36	CO	ppb	0	250	14.09	258.51	14.09	1.023	3.4
10/15/2006 2	21:36	SO2	ppb	0	25	-0.014	24.628	-0.014	1.015	-1.5
10/15/2006 2	22:36	NO	ppb	0	25	0.006	25.03	0.006	0.999	0.1
10/15/2006 2	22:36	NOy	ppb	0	25	-0.031	25.127	-0.031	0.994	0.5
10/15/2006 2	22:36	Diff	ppb	0	0	-0.036	0.093	-0.036	0	
10/16/2006 2	21:36	CO	ppb	0	250	3.98	258.89	3.98	0.981	3.6
10/16/2006 2	21:36	SO2	ppb	0	25	-0.007	24.643	-0.007	1.014	-1.4
10/16/2006 2	22:36	NO	ppb	0	25	0.011	25.617	0.011	0.976	2.5
10/16/2006 2	22:36	NOy	ppb	0	25	-0.014	25.732	-0.014	0.971	2.9
10/16/2006 2	22:36	Diff	ppb	0	0	-0.023	0.106	-0.023	0	

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□ Insert Format Tools Table

Monthly Running Average Report Run Date: 11/03/06 02:40 (1 Hour Rolling Averages)

SITE NAME: CHEEKAPK: 53-009-0013

PARAMETER NAME: RTEMP

MONTH: October

ADDRESS: LOGGING ROAD NEAR NEAH BAY

PARAMETER CODE: 62107

YEAR: 2006 DECIMAL POSITIONER: 0

LAT/LONG: 048 18' 00" / 124 37' 36"

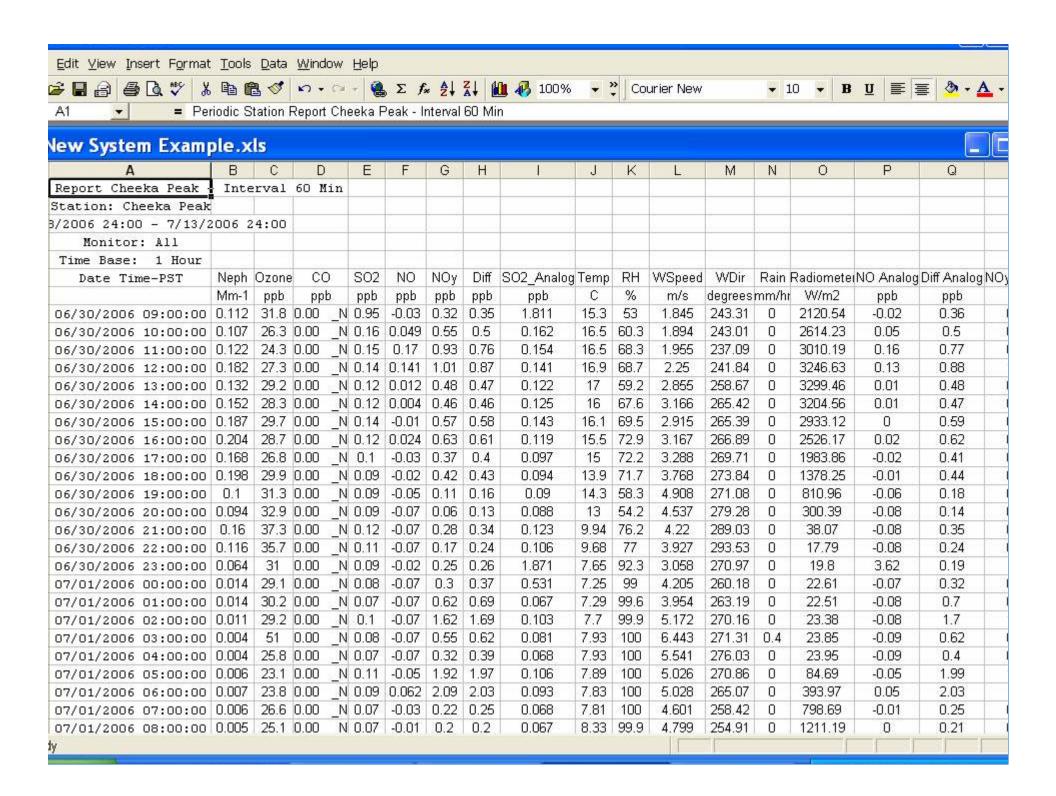
METHOD: 40 UNITS: DEG F

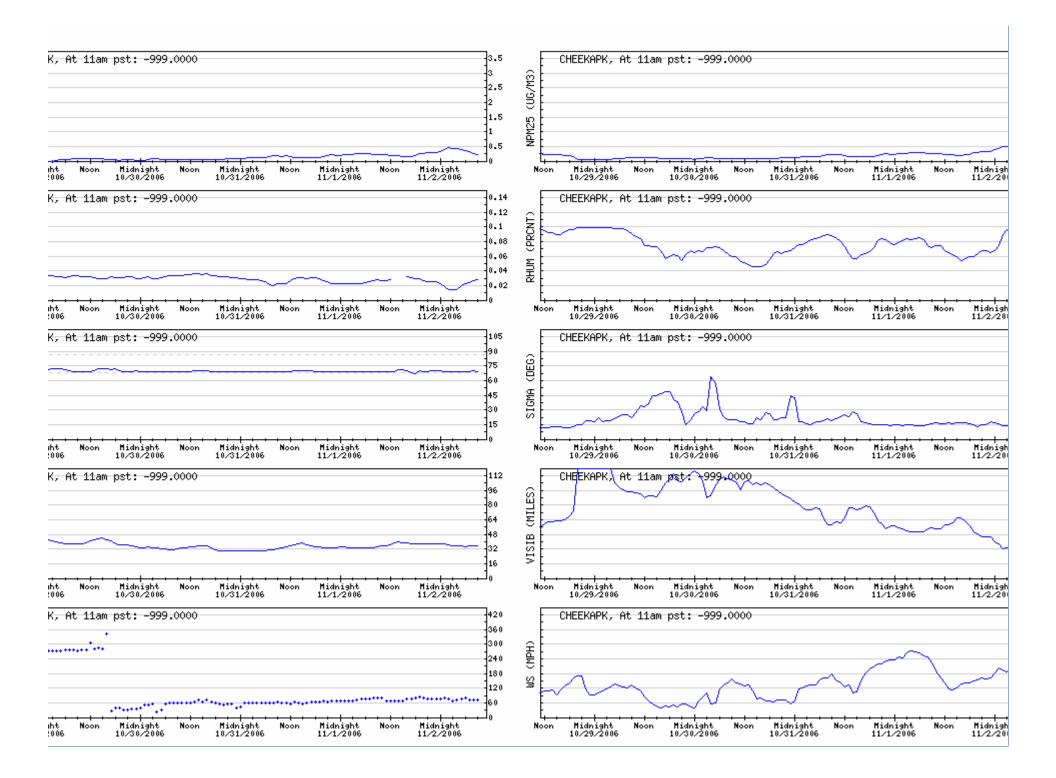
DECIMAL POSITIONER: 0 PROJECT: 05

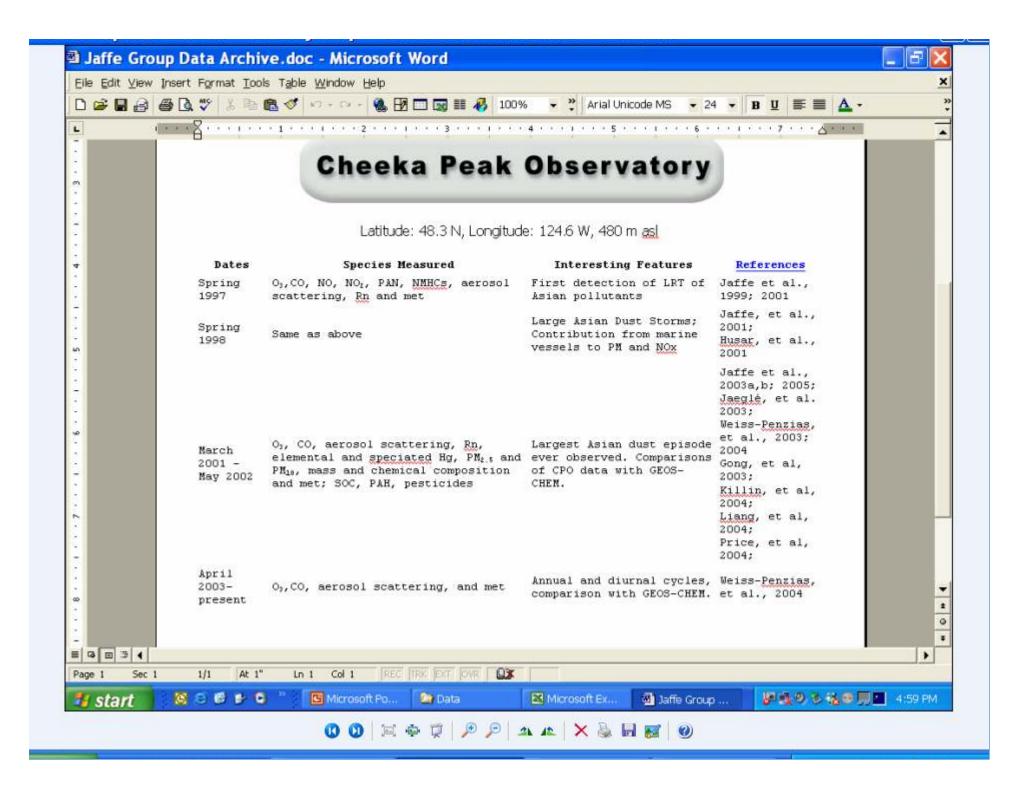
ELEVATION: 466

Hourly Averages Beginning Hour (PST)

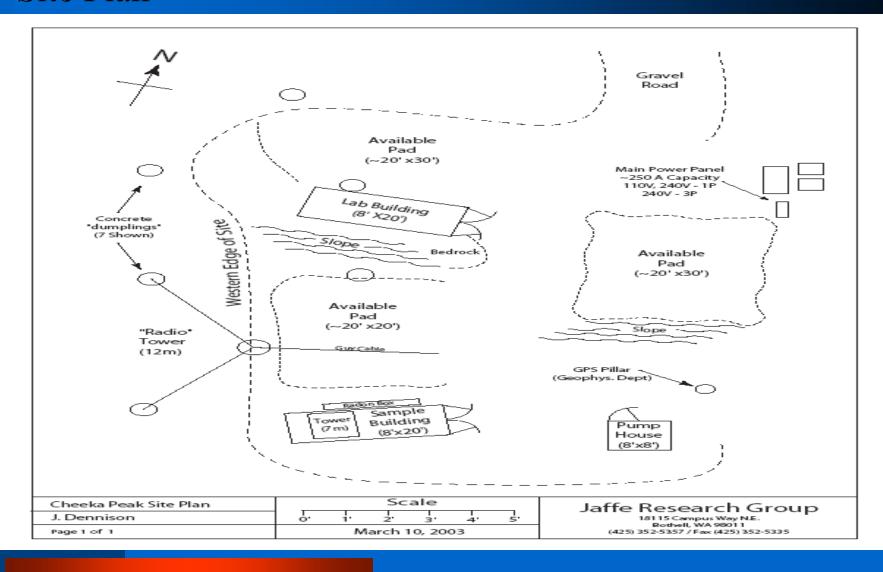
	Beginning nour (FST)																											
DA	C	00	01	02	03	04	05	06	07	₀₈	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVG	MAX	RDS
01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 20 21 22 23 24 25 27 28 29 30	SU MO TUE THE SA SU MO TUE THE FRA SU MO TUE THE	71 72 72 72 72 72 72 72 72 72 72 72 72 72	72 71 72 72 72 72 72 72 72 72 72 72 72 72 72	72 72 72 72 72 72 72 72 72 72 72 72 72 7	7227277277277272772772772772727272727272	777777777777777777777777777777777777777	72.72.72.72.72.72.72.72.72.72.72.72.72.7	777777777777777777777777777777777777777	72.72 7	72 72 72 72 72 72 72 72 72 72 72 72 72 7	72 72 72 72 72 72 72 72 72 72 72 72 72 7	71 72 72 72 72 72 72 72 72 72 72 72 72 72	71 71 71 72 72 72 73 73 73 73 73 73 73 73 73 73 73 73 73	771 71 770 771 71 72 72 72 72 72 72 72 72 72 72 72 72 72	71 71 72 72 71 71 72 72 72 72 72 72 72 72 72 72 72 72 72	771127777777777777777777777777777777777	777777777777777777777777777777777777777	777777777777777777777777777777777777777	777777777777777777777777777777777777777	777777777777777777777777777777777777777	722 711 722 722 723 727 72 72 72 72 72 72 72 72 72 72 72 72	72.72 7	727777777777777777777777777777777777777	777777777777777777777777777777777777777	72.72.71 71 71 72.72.72 72 72.72 72.72 72.72 72.72 72.72 72.72 72.72 72.72 72.72 72.7	72.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.	722222222222222222222222222222222222222	24 24 24 24 24 24 24 24 24 24 24 24 24 2
E	28 SS C																											



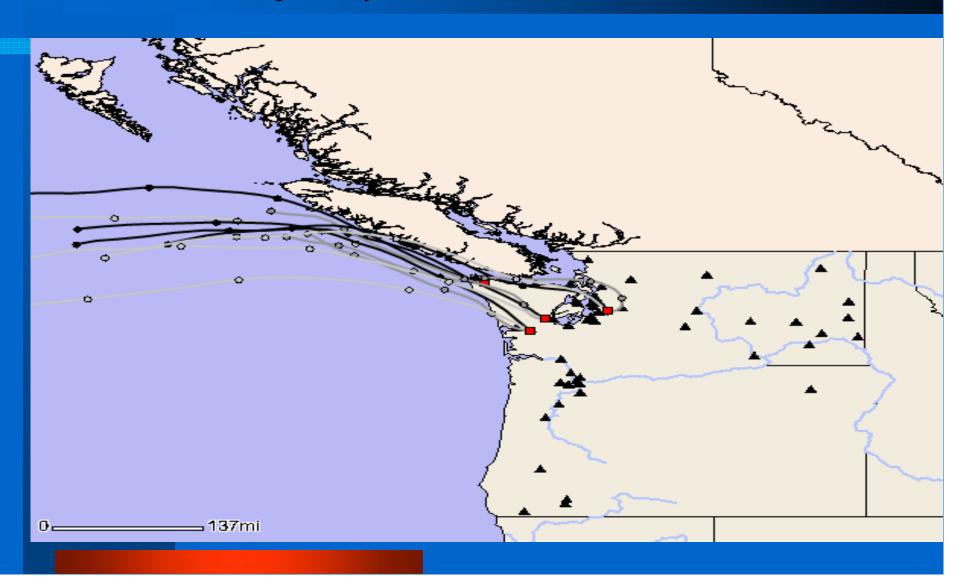




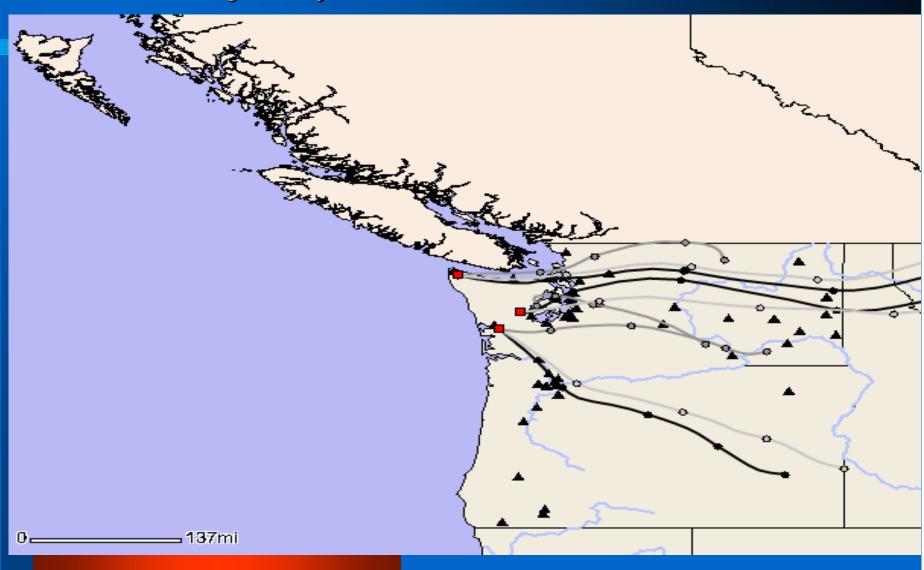
Site Plan



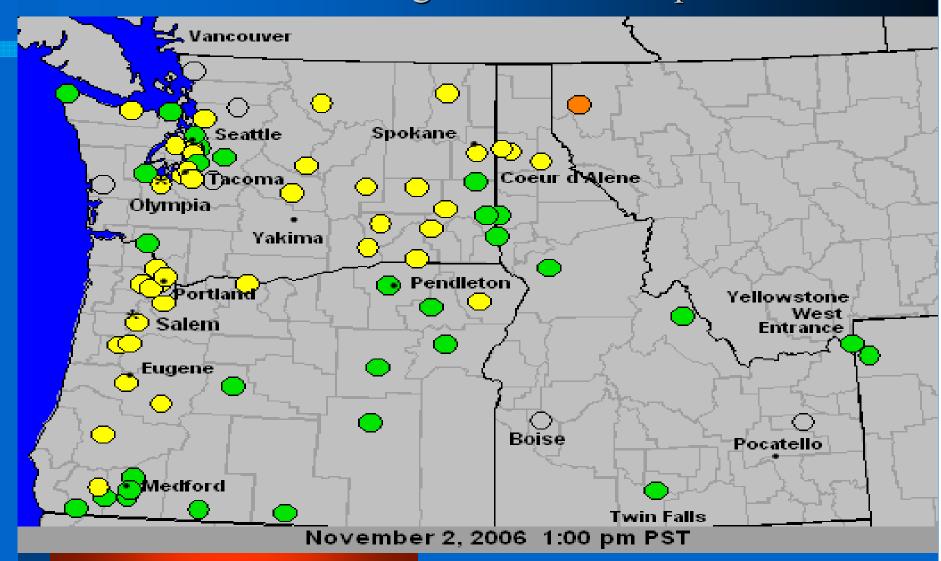
Backward Trajectory



Forward Trajectory



AirNOW Regional PM2.5 Map



Georgian Basin



