

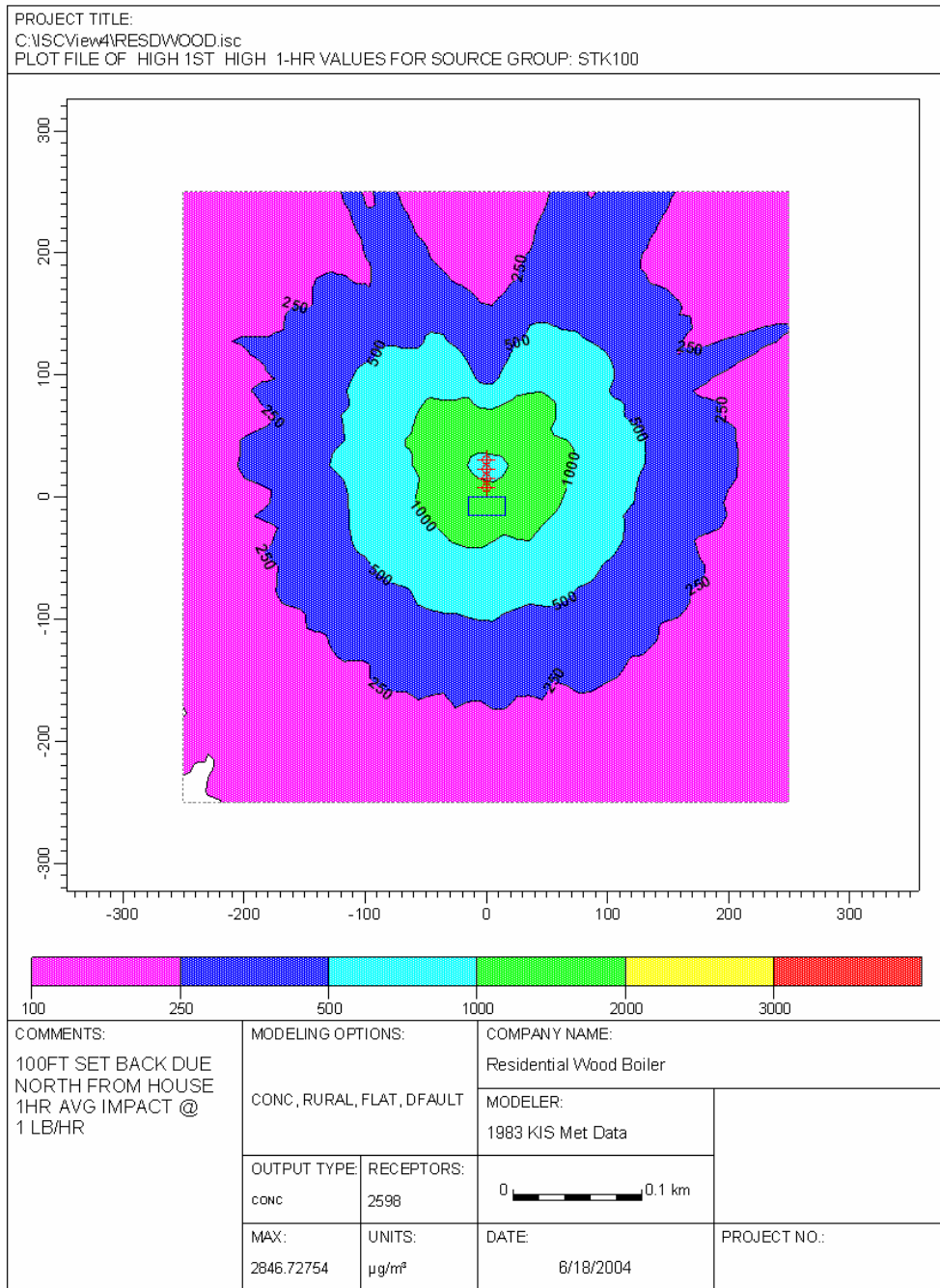
Residential Wood Boiler Study

MAXIMUM PREDICTED 1-HR AVG CONCENTRATIONS

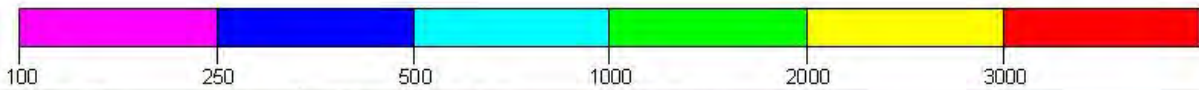
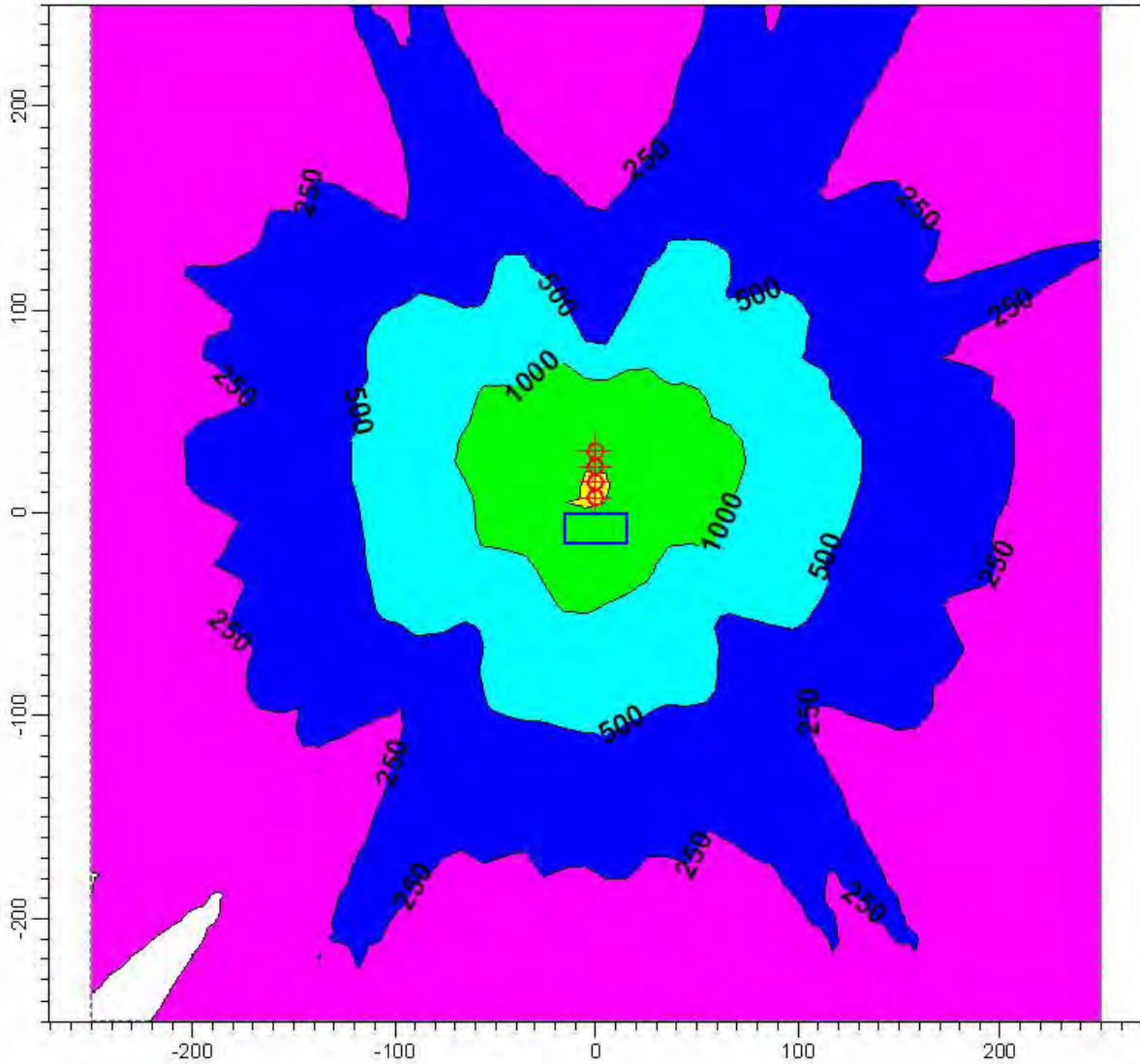
Four contour plots of the max 1-hr concentration at an emission rate of 1lb/hr. Since its 1 stack, the impacts can be scaled (linear relationship) to a different emission rate. Modeling is based on the following:

stack height = 8'
 temperature = 250F
 vel=1.5 m/s
 diameter = 6"
 50' x 100' bldg 22' high

Ran 25', 50', 75', and 100' set back distances from the bldg due north using 1983 KIS met data.

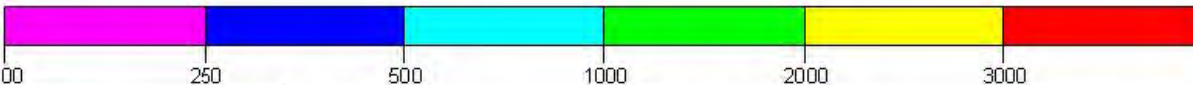
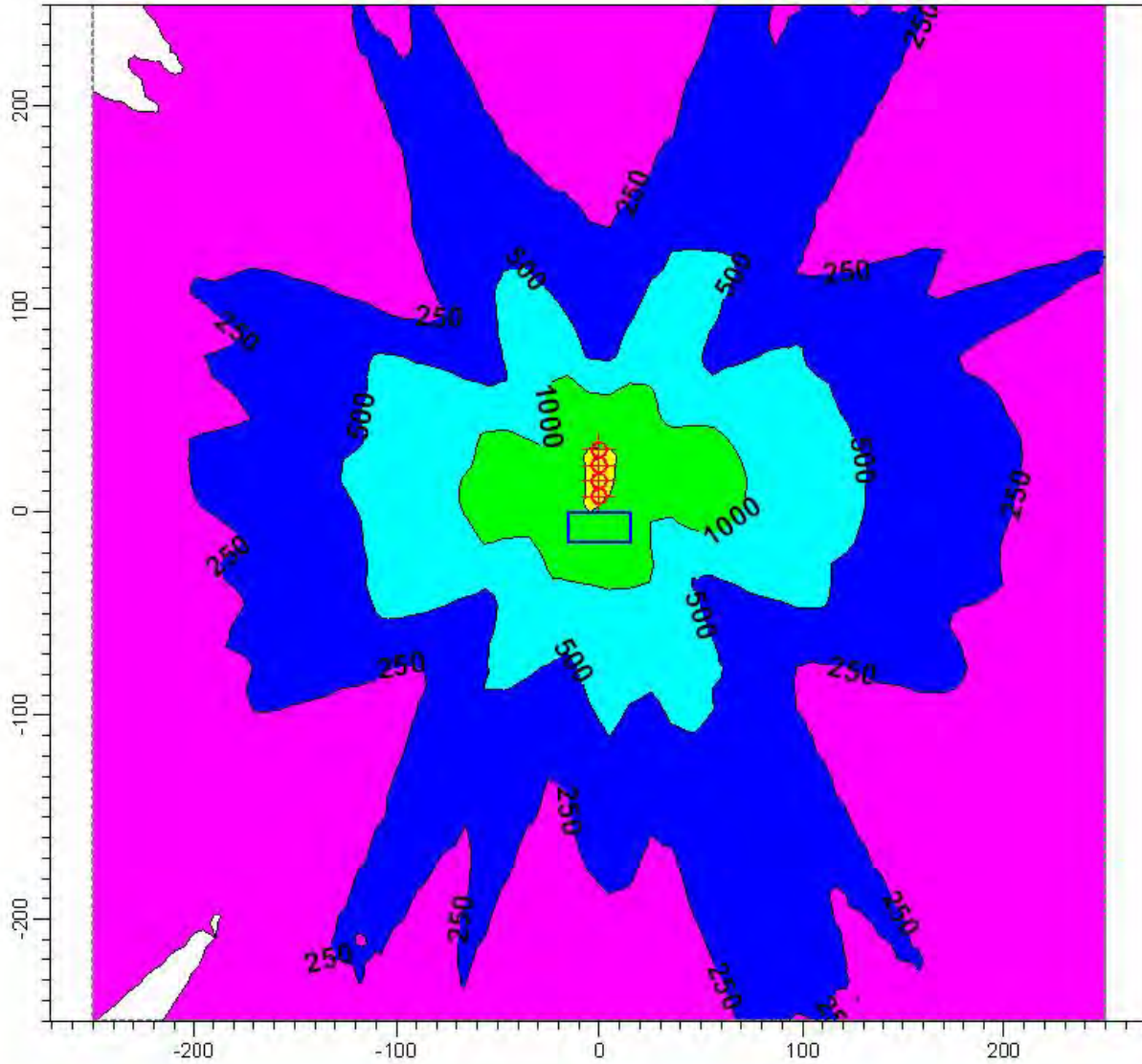


PROJECT TITLE:
 C:\ISCView4\RESWOOD.isc
 PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: STK75



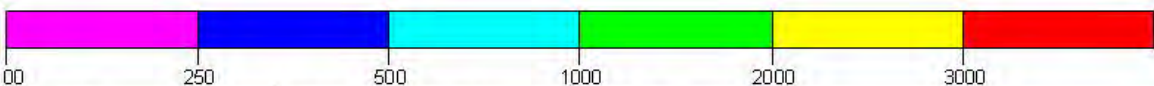
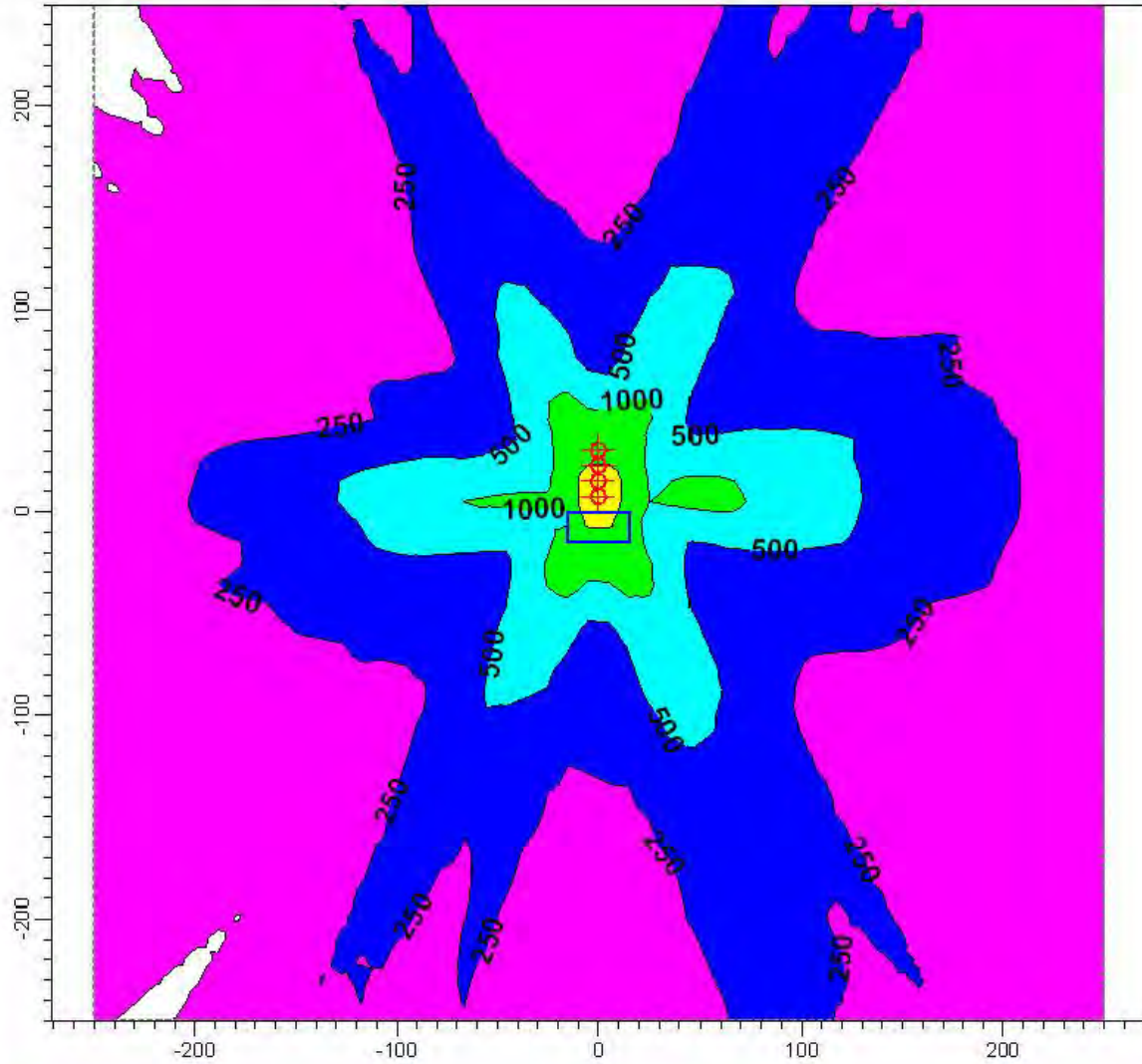
| | | | | |
|---|--|------------------------------------|--|--|
| COMMENTS: 75FT SET BACK DUE NORTH FROM HOUSE 1HR AVG IMPACT @ 1 LB/HR | MODELING OPTIONS: CONC, RURAL, FLAT, DFAULT | | COMPANY NAME: Residential Wood Boiler | |
| | OUTPUT TYPE: conc | RECEPTORS: 2598 | MODELER: 1983 KIS Met Data | |
| | MAX: 4361.85889 | UNITS: $\mu\text{g}/\text{m}^3$ | DATE: 6/18/2004 | |
| | | | PROJECT NO.: | |

PROJECT TITLE:
 C:\ISCView4\RESWOOD.isc
 PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: STK50



| | | | | |
|---|--|------------------------------------|--|--|
| COMMENTS: 50 FT SET BACK DUE NORTH FROM HOUSE 1HR AVG IMPACT @ 1LB/HR | MODELING OPTIONS: CONC, RURAL, FLAT, DFAULT | | COMPANY NAME: Residential Wood Boiler | |
| | OUTPUT TYPE: CONC | RECEPTORS: 2598 | MODELER: 1983 KIS Met Data | |
| | MAX: 4306.479 | UNITS: $\mu\text{g}/\text{m}^3$ | DATE: 6/18/2004 | |
| | | | PROJECT NO.: | |

PROJECT TITLE:
 C:\ISCView4\RESWOOD.isc
 PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: STK25



| | | | | |
|---|--|------------------------------------|--|--|
| COMMENTS: 25 FT SET BACK DUE NORTH OF HOUSE 1-HR AVG IMPACT @ 1 LB/HR | MODELING OPTIONS: CONC, RURAL, FLAT, DFAULT | | COMPANY NAME: Residential Wood Boiler | |
| | OUTPUT TYPE: conc | RECEPTORS: 2598 | MODELER: 1983 KIS Met Data | |
| | MAX: 6761.25586 | UNITS: $\mu\text{g}/\text{m}^3$ | DATE: 6/18/2004 | |