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BUREAU OF AIR REGULATION

**CPV Gulfcoast Power Generating Facility  
Application for Air Permit  
Document ID: CPV-GC**

**Supplemental Report**

Florida Department of Environmental  
Protection  
Division of Air Resources Management

***Prepared For:***

CPV Gulfcoast, Ltd.

***Prepared By:***

TRC Environmental Corporation  
Windsor, Connecticut

April 2001

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## **Section 1**

### **Introduction**

## **1.0 INTRODUCTION**

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CPV Gulfcoast, Ltd. (CPV) has recently submitted an application to construct a combined-cycle power generation facility near Piney Point in Manatee County, Florida. The Florida Department of Environmental Protection (FDEP) has issued a Prevention of Significant Deterioration (PSD) permit (PSD-FL-300) based on the permit application. CPV has recently included a Zero Liquid Discharge (ZLD) system in the facility design and is hereby providing the necessary data/information and supporting analysis to demonstrate that the inclusion of this system is not a major modification and will not change the facility's PSD Class II ambient air quality determination of "insignificant" impacts.

In addition to the emission sources reported in the application document titled "CPV Gulfcoast Power Generating Facility Application for Air Permit; Document ID: CPV-GC" dated September, 2000, the ZLD system proposed for the facility will result in an additional source of Particulate Matter (PM) emissions, most of which are expected to be below 10 micrometers in size, i.e., PM<sub>10</sub>. These additional emissions will result from the waste water treatment system, which includes two mechanical forced draft cooling towers. As with the already permitted 5 cell cooling towers (CT), the waste water towers (WWT) will experience cooling tower drift with attendant emissions of dissolved solids contained in the water droplet drift.

Although the WWTs will be equipped with state-of-the-art drift eliminators designed to achieve a drift rate of 0.0005 percent of the circulating water flow rate, the higher dissolved solids concentration in the circulating water results in higher emission rates, compared to the fresh water CT. Emission rates have been estimated using manufacturer design data and expected water circulation rates and dissolved solids concentrations. Table 1-1 summarizes the parameters used to calculate the resulting emission rates. The total annual emissions for the ZLD system, i.e., two WWTs, are predicted to be 4.11 tons/yr. This increase in annual PM<sub>10</sub> emissions is less than the major source modification threshold for PSD permitting. The predicted emission rate is based on a continuous 3,750 gallons/minute circulating flow rate. Consistently, emissions are assumed to also be released on a continuous basis at a rate of 0.94 lbs/hr or 0.118 g/sec.

The PM<sub>10</sub> modeling analyses previously submitted to FDEP in the above referenced report have been updated to include the WWT sources and their respective emissions. The methods employed and the resulting predicted ambient air quality impacts are discussed in the following sections.

**Table 1-1**

**Competitive Power Ventures – Gulfcoast Wastewater Tower PM Emissions Calculations**

<b>Parameter</b>	<b>Units</b>	<b>Value</b>
Cooling Tower Circulating Flow*	gal/min	3,750
Drift Fraction of Circulating Flow*	percent	0.0005
Drift Rate	gal/min	0.01875
Drift Rate	gal/hr	1.125
Water Density	lb/gal	9.163
Water Density Assumed for Cooling Water	lb/gal	9.163
Drift Rate	lb/min	0.17
Drift Rate	lb/hr	10.31
Convert lb/hr to g/s	g/s per lb/hr	0.126
Drift Rate	g/s	1.3
Dissolved & Suspended Solids in Water	mg/l	100,000
Dissolved & Suspended Solids in Water	g/l	100.0
Convert Liters to Gallons	l/gal	3.785
Dissolved & Suspended Solids in Water	g/gal	378.50
PM Emissions	g/hr	425.8
PM Emissions	lb/hr*	0.94
PM Emissions	g/s	0.118
Number of Cells		2
PM Emissions	g/s per cell	0.059
Annual Emissions	tons/year	4.11
*1.0 lb/hr based on AEP-Proserv information		

## **Section 2**

### **Modeling Analyses**

## **2.0 MODELING ANALYSES**

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The basis for the PM<sub>10</sub> modeling analyses to include the ZLD system are the ISCST3 modeling analyses described in the above referenced permit application document. The modeling analyses were performed using the same model, i.e., ISCST3, modeling inputs for the meteorological data, i.e., Tampa International Airport, 1987-1991, emission parameters for the combined-cycle turbine stack and 5-cell cooling tower and the same location and downwash input parameters for the same. The model inputs that were added or modified to integrate the WWT emissions are described below.

### **2.1 WWT Source Parameters**

The emission rate for each WWT was assumed to be one-half of the total hourly emission rate or 0.47 lb/hr (0.059 g/sec). These emissions are assumed to be released continuously from the top of the fan opening, which is approximately 14 feet in diameter and 58 feet above ground level. The combined dimensions of the support structure for the two contiguous cells are 30 feet wide and 40 feet long. The actual height of the WWT structure is 18 feet with a 7 foot fan extension. The structure will be elevated on supports to obtain a release height of 58 feet, i.e., a height equal to the CT height. The WWT will be located approximately 165 meters due west of the 5-cell CT. Drawing number SC009 provided in Appendix A illustrates the revised project plan layout. Influences to dispersion of emissions from the WWT were evaluated using the BPIP software, as in the original analysis, to derive the direction-specific dimensions of the influencing structures. These dimensions were input to the ISCST3 model for each WWT cell.

### **2.2 Receptors**

CPV has decided to extend the secured or fenced area of the site to include all of the owned property. Therefore, the ambient air boundary designation is equal to the property line boundary. Drawing SC008, given in Appendix A, illustrates the revised fence/property boundary. To be consistent with this new ambient air boundary, receptors inside the fenced property were removed and new receptors were added at 50 meters along the fenceline parameter. Refined receptors were also added parallel to the fence line boundary in 25 meter increments out to 100



meters from the fenceline. The original Cartesian and polar grids, revised to reflect the new fenceline, were retained in the analyses. Overall, 3454 receptors were used in the analyses including 63 fenceline and 588 refined grid receptors. As with the previous analyses all receptor elevations were assumed to be zero.

## **Section 3**

### **Modeling Results**

### 3.0 MODELING RESULTS

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The ISCST3 model was run with the revisions noted to determine maximum 24-hour and annual average PM<sub>10</sub> impacts. The overall maximum 24-hour average PM<sub>10</sub> impact from all sources combined is 4.6 µg/m<sup>3</sup>. The location of the maximum value is predicted to occur southeast of the CTs, in the refined grid near the fenceline. The maximum annual average PM<sub>10</sub> impact is predicted to be 0.3 µg/m<sup>3</sup>. Table 3-1 provides a summary of the previously-predicted maximum impacts and the new maximum impacts. Compared to the applicable Class II Significant Impact Levels (SILs), the predicted impacts are below the 24-hour average SIL of 5 µg/m<sup>3</sup> and the annual average SIL of 1 µg/m<sup>3</sup>.

<b>Table 3-1 CPV Gulfcoast Project Summary of Applicable PM<sub>10</sub> Limits and Predicted Impacts</b>								
<b>Pollutant</b>	<b>Averaging Period</b>	<b>NAAQS (µg/m<sup>3</sup>)</b>		<b>PSD Class II (µg/m<sup>3</sup>)</b>				
		<b>Primary</b>	<b>Secondary</b>	<b>Increment</b>	<b>SILs</b>	<b>Previous Predicted Impact</b>	<b>Revised Predicted Impact</b>	<b>Significant Impact?</b>
<b>Particulate (PM<sub>10</sub>)</b>	24-hour	150 <sup>c</sup>	N/A	30 <sup>a</sup>	5	3.6	4.6	NO
	Annual	50 <sup>b</sup>	N/A	17 <sup>b</sup>	1	0.07	0.3	NO

a Not to be exceeded more that once per year.  
b Never to be exceeded.  
c The pre-existing form is exceedance-based. The revised form is the 99<sup>th</sup> percentile.

**Section 4**

**Conclusion**

## 4.0 CONCLUSION

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The addition of a ZLD System at the Gulfcoast Facility, although a new source of PM<sub>10</sub>, will result in very small differences in air quality impacts compared to those predicted previously, while resulting in an overall improvement in environmental impacts. Inclusion of the ZLD system to the permitted project does not constitute a PSD major modification and will not change the facility's PSD Class II ambient air quality determination of "insignificant" impacts. The ambient air quality impact associated with the air emissions of PM<sub>10</sub> is predicted to be below the PSD Class II SILs. This result is consistent with previous modeling results and is expected to be minimal or insignificant relative to ambient air quality standards and other applicable limits. Therefore, the previously submitted application and resulting permit issuance are not materially effected by the inclusion of the ZLD system.

**Appendix A**  
**Air Permit Application Forms**



# Department of Environmental Protection

## Division of Air Resources Management

### APPLICATION FOR AIR PERMIT - TITLE V SOURCE

See Instructions for Form No. 62-210.900(1)

#### I. APPLICATION INFORMATION

##### Identification of Facility

1. Facility Owner/Company Name: CPV Gulfcoast, Ltd.	
2. Site Name: CPV Gulfcoast	
3. Facility Identification Number: <span style="float: right;">[ X ] Unknown</span>	
4. Facility Location: Street Address or Other Locator: City: <span style="margin-left: 150px;">County: Manatee</span> <span style="float: right;">Zip Code:</span>	
5. Relocatable Facility? [ ] Yes    [ X ] No	6. Existing Permitted Facility? [ ] Yes    [ X ] No

##### Application Contact

1. Name and Title of Application Contact: Sean Finnerty, Director of Development	
2. Application Contact Mailing Address: Organization/Firm: CPV Gulfcoast, Ltd. Street Address: 35 Braintree Hill Office Park, Suite 107 City: Braintree <span style="margin-left: 100px;">State: MA</span> <span style="float: right;">Zip Code: 02184</span>	
3. Application Contact Telephone Numbers: Telephone: ( 781 ) 848-0253 <span style="margin-left: 100px;">Fax: ( 781 ) 848-5804</span>	

##### Application Processing Information (DEP Use)

1. Date of Receipt of Application:	4-19-01
2. Permit Number:	081 0194-002-AC
3. PSD Number (if applicable):	PSD-FL-300A
4. Siting Number (if applicable):	



**Purpose of Application**

**Air Operation Permit Application**

This Application for Air Permit is submitted to obtain: (Check one)

- Initial Title V air operation permit for an existing facility which is classified as a Title V source.
- Initial Title V air operation permit for a facility which, upon start up of one or more newly constructed or modified emissions units addressed in this application, would become classified as a Title V source.

Current construction permit number: \_\_\_\_\_

- Title V air operation permit revision to address one or more newly constructed or modified emissions units addressed in this application.

Current construction permit number: \_\_\_\_\_

Operation permit number to be revised: \_\_\_\_\_

- Title V air operation permit revision or administrative correction to address one or more proposed new or modified emissions units and to be processed concurrently with the air construction permit application. (Also check Air Construction Permit Application below.)

Operation permit number to be revised/corrected: \_\_\_\_\_

- Title V air operation permit revision for reasons other than construction or modification of an emissions unit. Give reason for the revision; e.g., to comply with a new applicable requirement or to request approval of an "Early Reductions" proposal.

Operation permit number to be revised: \_\_\_\_\_

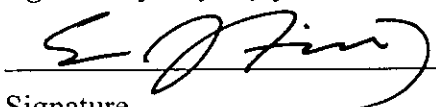
Reason for revision: \_\_\_\_\_

**Air Construction Permit Application**

This Application for Air Permit is submitted to obtain: (Check one)

- Air construction permit to construct or modify one or more emissions units.
- Air construction permit to make federally enforceable an assumed restriction on the potential emissions of one or more existing, permitted emissions units.
- Air construction permit for one or more existing, but unpermitted, emissions units.

**Owner/Authorized Representative or Responsible Official**

1. Name and Title of Owner/Authorized Representative or Responsible Official: Gary Lambert, Executive Vice President
2. Owner/Authorized Representative or Responsible Official Mailing Address: Organization/Firm: CPV Gulfcoast, Ltd. Street Address: 35 Braintree Hill Office Park, Suite 107 City: Braintree State: MA Zip Code: 02184
3. Owner/Authorized Representative or Responsible Official Telephone Numbers: Telephone: ( 781 ) 848-0253 Fax: ( 781 ) 848-5804
4. Owner/Authorized Representative or Responsible Official Statement: <i>I, the undersigned, am the owner or authorized representative*(check here [ ], if so) or the responsible official (check here [ ], if so) of the Title V source addressed in this application, whichever is applicable. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof. I understand that a permit, if granted by the Department, cannot be transferred without authorization from the Department, and I will promptly notify the Department upon sale or legal transfer of any permitted emissions unit.</i>  <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">               _____              Signature         </div> <div style="width: 45%;">             4/19/01              _____              Date         </div> </div>

\* Attach letter of authorization if not currently on file.

**Professional Engineer Certification**

1. Professional Engineer Name: Scott G. Sumner Registration Number: 44352
2. Professional Engineer Mailing Address: Organization/Firm: TRC Street Address: 21 Technology Drive City: Irvine State: CA Zip Code: 92618
3. Professional Engineer Telephone Numbers: Telephone: ( 949 ) 727-9336 Fax: ( 949 ) 727-7399

4. Professional Engineer Statement:

*I, the undersigned, hereby certify, except as particularly noted herein\*, that:*

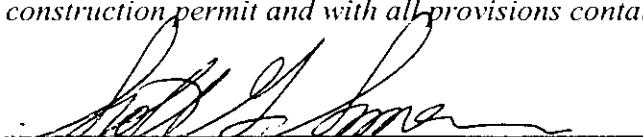
*(1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this Application for Air Permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and*

*(2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.*

*If the purpose of this application is to obtain a Title V source air operation permit (check here [ ] , if so), I further certify that each emissions unit described in this Application for Air Permit, when properly operated and maintained, will comply with the applicable requirements identified in this application to which the unit is subject, except those emissions units for which a compliance schedule is submitted with this application.*

*If the purpose of this application is to obtain an air construction permit for one or more proposed new or modified emissions units (check here [ ] , if so), I further certify that the engineering features of each such emissions unit described in this application have been designed or examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application.*

*If the purpose of this application is to obtain an initial air operation permit or operation permit revision for one or more newly constructed or modified emissions units (check here [ ] , if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit.*

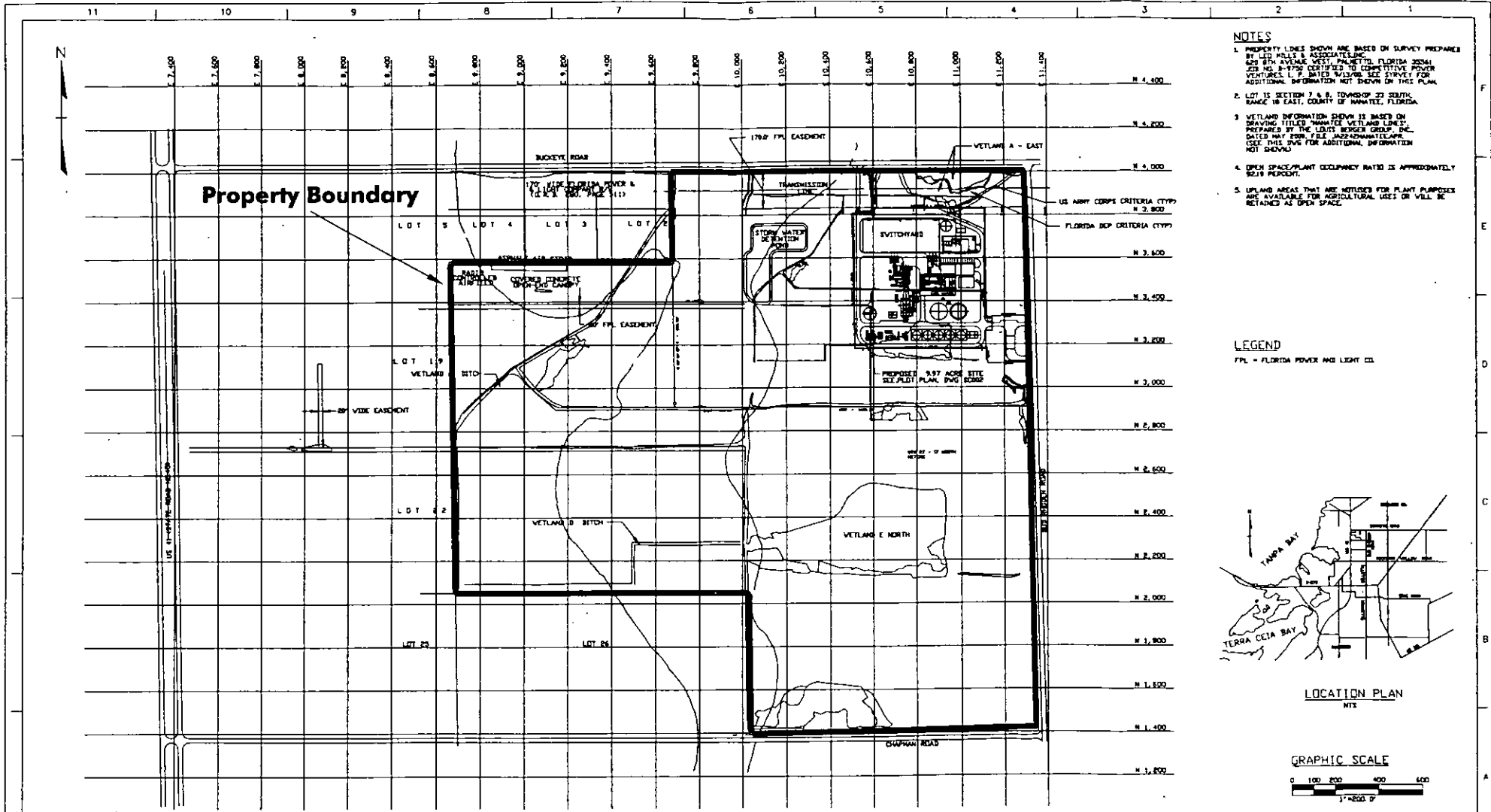
  
Signature

4-18-01  
Date

(seal)

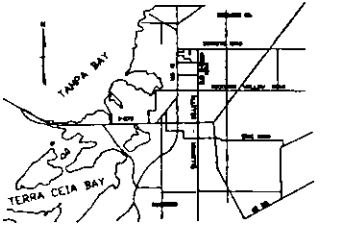
\*

**Appendix B**  
**Engineering Drawings**

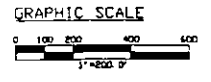


- NOTES**
1. PROPERTY LINES SHOWN ARE BASED ON SURVEY PREPARED BY LEO HULLY & ASSOCIATES, INC., 420 8TH AVENUE WEST, PALM BEACH, FLORIDA 33441, JOB NO. 8-9750, CERTIFIED TO COMPETITIVE POWER VENTURES, L.P. DATED 8/13/08. SEE SURVEY FOR ADDITIONAL INFORMATION NOT SHOWN ON THIS PLAN.
  2. LOT IS SECTION 7 & 8, TOWNSHIP 23 SOUTH, RANGE 18 EAST, COUNTY OF HAMILTON, FLORIDA.
  3. WETLAND INFORMATION SHOWN IS BASED ON DRAWING TITLED "WETLAND LINES", PREPARED BY THE LOUIS BERGER GROUP, INC., DATED MAY 2008, FILE JMS20080410000. USE THIS DWG FOR ADDITIONAL INFORMATION NOT SHOWN.
  4. OPEN SPACE/PLANT OCCUPANCY RATIO IS APPROXIMATELY 20:1 PERCENT.
  5. UPLAND AREAS THAT ARE NOTIFIED FOR PLANT PURPOSES ARE AVAILABLE FOR AGRICULTURAL USES OR WILL BE RETAINED AS OPEN SPACE.

**LEGEND**  
 FPL - FLORIDA POWER AND LIGHT CO.



LOCATION PLAN  
 NTS



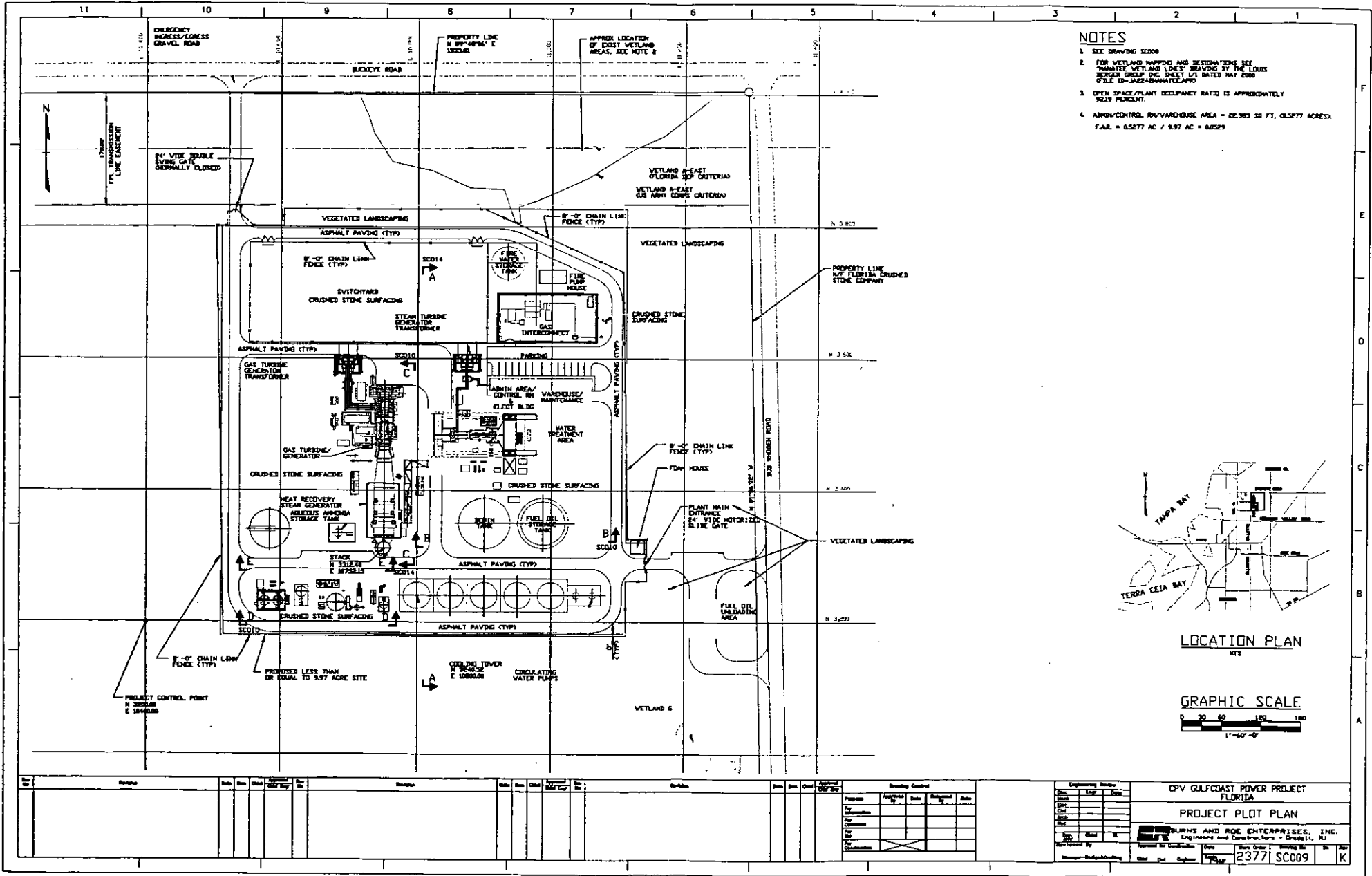
Rev	Number	Date	By	Checked	Approved	Notes
1	POINT TO BE					
2	POINT TO BE, REVISED NOTES					
3	RELOCATED STORM WATER DETENTION POND					

Drawing Control		Engineering Review	
Prepared	Checked	By	Date

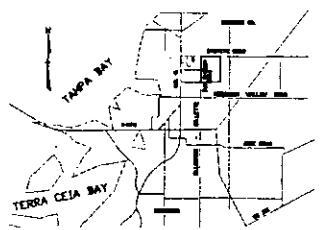
  

CPV GULFCOAST POWER PROJECT FLORIDA		2377 SC008	
SITE PLAN		2377 SC008	
LEO HULLY & ASSOCIATES, INC.		2377 SC008	
Engineers and Constructors - (Division)		2377 SC008	
Drawn By	Checked By	Scale	Sheet No.
			2377 SC008
Designed By	Approved By	Scale	Sheet No.
			2377 SC008

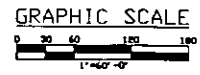


**NOTES**

- SEE DRAWING SC008
- FOR WETLAND MAPPING AND DESIGNATIONS SEE "MARATEE WETLAND LINES" DRAWING BY THE LOUIS BORGER GROUP INC. SHEET LOT DATED MAY 2000 (FILE ID-JAZZ424WVATELEAW)
- OPEN SPACE/PLANT OCCUPANCY RATIO IS APPROXIMATELY 92.19 PERCENT.
- AIRN/CONTROL RM/VARHOUSE AREA = 22,983 SQ FT, 0.5277 ACRES.  
T.A.R. = 0.5277 AC / 9.97 AC = 0.0529



LOCATION PLAN  
KTS



NO.	REVISION	DATE	DESIGN				DRAWING CONTROL				ENGINEERING REVIEW	DATE	BY	
			DATE	BY	DATE	BY	DATE	BY	DATE	BY				

NO.	REVISION	DATE	BY	DATE	BY

NO.	REVISION	DATE	BY	DATE	BY

Engineering Review		
NO.	DATE	BY

<b>CPV GULFCOAST POWER PROJECT FLORIDA</b>											
<b>PROJECT PLOT PLAN</b>											
<b>BURNS AND ROE ENTERPRISES, INC.</b> Engineers and Constructors - Dallas, TX											
Prepared by: [Blank]    Checked by: [Blank]    Date: [Blank]    Scale: [Blank]											
Drawn by: [Blank]    Date: [Blank]    Scale: [Blank]											
Project No: <b>2377</b> Sheet No: <b>SC009</b> of <b>K</b>											

**Appendix C**

**Selected ISCST3 Input/Output File Pages**

CO STARTING  
 CO TITLEONE \*\*\*CPV GULFCOAST SUPPLEMENTAL CLASS II PM10 MODELING ANALYSIS \*\*\*  
 CO TITLETWO \*\*\*ADDITION OF WASTE WATER COOLING TOWER TO GULFCOAST FACILITY\*\*\*  
 CO MODELOPT DFAULT CONC RURAL NOCMPL  
 CO AVERTIME 24 ANNUAL  
 CO POLLUTID OTHER  
 CO TERRHGTS FLAT  
 CO RUNORNOT RUN  
 CO FINISHED

SO STARTING  
 SO ELEVUNIT METERS  
 SO LOCATION STACK POINT 0.0 0.0 0  
 SO SRCPARAM STACK 5.67 45.72 397.04 14.2 5.64  
 SO BUILDHGT STACK 20.72 20.72 22.86 22.86 22.86 22.86  
 SO BUILDHGT STACK 22.86 22.86 22.86 22.86 22.86 22.86  
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 SO BUILDWID STACK 50.32 53.39 19.88 21.87 21.87 21.87  
 SO BUILDWID STACK 21.87 21.87 21.87 21.87 21.87 21.87  
 SO BUILDWID STACK 21.87 21.87 19.88 85.71 78.95 69.80  
 SO BUILDWID STACK 50.32 53.39 19.88 21.87 21.87 21.87  
 SO BUILDWID STACK 21.87 21.87 21.87 21.87 21.87 21.87  
 SO BUILDWID STACK 21.87 21.87 19.88 85.71 78.95 69.80  
 SO LOCATION CELL1 POINT 13.66 -19.60 0  
 SO SRCPARAM CELL1 .02 17.68 -10.00 7.86 10.00  
 SO BUILDHGT CELL1 20.72 20.72 20.72 20.72 20.72 12.50  
 SO BUILDHGT CELL1 12.50 12.50 12.50 12.50 12.50 12.50  
 SO BUILDHGT CELL1 22.86 22.86 22.86 20.72 20.72 20.72  
 SO BUILDHGT CELL1 20.72 20.72 20.72 20.72 20.72 12.50  
 SO BUILDHGT CELL1 12.50 12.50 12.50 12.50 12.50 12.50  
 SO BUILDHGT CELL1 22.86 22.86 22.86 20.72 20.72 20.72  
 SO BUILDWID CELL1 67.79 63.72 57.71 54.62 52.74 49.25  
 SO BUILDWID CELL1 38.77 27.11 14.63 27.11 38.77 49.25  
 SO BUILDWID CELL1 21.28 21.28 19.88 85.71 78.95 45.72  
 SO BUILDWID CELL1 50.32 53.39 54.83 54.62 52.74 49.25  
 SO BUILDWID CELL1 38.77 27.11 14.63 27.11 38.77 49.25  
 SO BUILDWID CELL1 21.28 21.28 19.88 85.71 78.95 69.80  
 SO LOCATION CELL2 POINT 28.29 -19.60 0  
 SO SRCPARAM CELL2 .02 17.68 -10.00 7.86 10.00  
 SO BUILDHGT CELL2 20.72 20.72 20.72 20.72 12.50 12.50  
 SO BUILDHGT CELL2 12.50 12.50 12.50 12.50 12.50 22.86  
 SO BUILDHGT CELL2 22.86 22.86 22.86 20.72 20.72 20.72  
 SO BUILDHGT CELL2 20.72 20.72 20.72 20.72 12.50 12.50  
 SO BUILDHGT CELL2 12.50 12.50 12.50 12.50 12.50 22.86  
 SO BUILDHGT CELL2 22.86 22.86 22.86 20.72 20.72 20.72  
 SO BUILDWID CELL2 67.79 63.72 57.71 54.62 58.23 49.25  
 SO BUILDWID CELL2 38.77 27.11 14.63 27.11 38.77 24.68  
 SO BUILDWID CELL2 23.79 22.17 19.88 53.39 50.32 45.72  
 SO BUILDWID CELL2 50.32 53.39 54.83 54.62 58.23 49.25  
 SO BUILDWID CELL2 38.77 27.11 14.63 27.11 38.77 24.68  
 SO BUILDWID CELL2 23.79 22.17 19.88 53.39 78.95 69.80  
 SO LOCATION CELL3 POINT 42.92 -19.60 0  
 SO SRCPARAM CELL3 .02 17.68 -10.00 7.86 10.00  
 SO BUILDHGT CELL3 20.72 20.72 20.72 12.50 12.50 12.50



SO BUILDHGT CELL3	12.50	12.50	12.50	12.50	22.86	22.86
SO BUILDHGT CELL3	22.86	22.86	22.86	20.72	20.72	20.72
SO BUILDHGT CELL3	20.72	20.72	20.72	12.50	12.50	12.50
SO BUILDHGT CELL3	12.50	12.50	12.50	12.50	22.86	20.72
SO BUILDHGT CELL3	22.86	22.86	20.72	20.72	20.72	20.72
SO BUILDWID CELL3	67.79	63.72	54.83	65.44	58.23	49.25
SO BUILDWID CELL3	38.77	27.11	14.63	27.11	24.82	24.68
SO BUILDWID CELL3	23.79	22.17	19.88	53.39	50.32	45.72
SO BUILDWID CELL3	50.32	53.39	54.83	65.44	58.23	49.25
SO BUILDWID CELL3	38.77	27.11	14.63	27.11	24.82	85.84
SO BUILDWID CELL3	23.79	22.17	54.83	85.71	78.95	69.80
SO LOCATION CELL4 POINT	57.55	-19.60	0			
SO SRCPARAM CELL4	.02	17.68	-10.00	7.86	10.00	
SO BUILDHGT CELL4	20.72	12.50	12.50	12.50	12.50	12.50
SO BUILDHGT CELL4	12.50	12.50	12.50	12.50	22.86	22.86
SO BUILDHGT CELL4	22.86	22.86	20.72	20.72	20.72	20.72
SO BUILDHGT CELL4	20.72	12.50	12.50	12.50	12.50	12.50
SO BUILDHGT CELL4	12.50	12.50	12.50	12.50	20.72	20.72
SO BUILDHGT CELL4	20.72	20.72	12.50	12.50	20.72	20.72
SO BUILDWID CELL4	67.79	73.74	70.67	65.44	58.23	49.25
SO BUILDWID CELL4	38.77	27.11	14.63	27.11	24.82	24.68
SO BUILDWID CELL4	23.79	22.17	54.83	53.39	50.32	45.72
SO BUILDWID CELL4	50.32	73.74	70.67	65.44	58.23	49.25
SO BUILDWID CELL4	38.77	27.11	14.63	27.11	79.15	85.84
SO BUILDWID CELL4	89.93	54.62	70.67	73.74	78.95	69.80
SO LOCATION CELL5 POINT	72.18	-19.60	0			
SO SRCPARAM CELL5	.02	17.68	-10.00	7.86	10.00	
SO BUILDHGT CELL5	12.50	12.50	12.50	12.50	12.50	12.50
SO BUILDHGT CELL5	12.50	12.50	12.50	12.50	22.86	22.86
SO BUILDHGT CELL5	22.86	20.72	20.72	20.72	20.72	20.72
SO BUILDHGT CELL5	12.50	12.50	12.50	12.50	12.50	12.50
SO BUILDHGT CELL5	12.50	12.50	12.50	12.50	20.72	20.72
SO BUILDHGT CELL5	20.72	12.50	12.50	12.50	20.72	20.72
SO BUILDWID CELL5	74.58	73.74	70.67	65.44	58.23	49.25
SO BUILDWID CELL5	38.77	27.11	14.63	27.11	24.82	24.68
SO BUILDWID CELL5	23.79	54.62	54.83	53.39	50.32	45.72
SO BUILDWID CELL5	74.58	73.74	70.67	65.44	58.23	49.25
SO BUILDWID CELL5	38.77	27.11	14.63	27.11	79.15	85.84
SO BUILDWID CELL5	52.74	65.44	70.67	73.74	78.95	69.80
SO LOCATION WASTE1 POINT	-46.55	-20.15	0.0			
SO SRCPARAM WASTE1	.059	17.68	-5.56	6.5	4.26	
SO BUILDHGT WASTE1	0.00	0.00	0.00	0.00	0.00	0.00
SO BUILDHGT WASTE1	0.00	0.00	0.00	0.00	0.00	0.00
SO BUILDHGT WASTE1	0.00	0.00	0.00	0.00	0.00	0.00
SO BUILDHGT WASTE1	0.00	0.00	0.00	22.86	22.86	22.86
SO BUILDHGT WASTE1	22.86	12.50	12.50	12.50	0.00	0.00
SO BUILDHGT WASTE1	0.00	0.00	0.00	0.00	0.00	0.00
SO BUILDWID WASTE1	0.00	0.00	0.00	0.00	0.00	0.00
SO BUILDWID WASTE1	0.00	0.00	0.00	0.00	0.00	0.00
SO BUILDWID WASTE1	0.00	0.00	0.00	0.00	0.00	0.00
SO BUILDWID WASTE1	0.00	0.00	0.00	22.17	23.79	24.68
SO BUILDWID WASTE1	24.82	27.11	14.63	27.11	0.00	0.00
SO BUILDWID WASTE1	0.00	0.00	0.00	0.00	0.00	0.00
SO LOCATION WASTE2 POINT	-46.55	-14.60	0.0			
SO SRCPARAM WASTE2	.059	17.68	-5.56	6.5	4.26	
SO BUILDHGT WASTE2	0.00	0.00	0.00	22.86	22.86	0.00
SO BUILDHGT WASTE2	0.00	0.00	0.00	0.00	0.00	0.00

SO BUILDHGT WASTE2	0.00	0.00	0.00	0.00	0.00	0.00
SO BUILDHGT WASTE2	0.00	0.00	0.00	22.86	22.86	22.86
SO BUILDHGT WASTE2	22.86	0.00	12.50	12.50	0.00	0.00
SO BUILDHGT WASTE2	0.00	0.00	0.00	0.00	0.00	0.00
SO BUILDWID WASTE2	0.00	0.00	0.00	22.17	23.79	0.00
SO BUILDWID WASTE2	0.00	0.00	0.00	0.00	0.00	0.00
SO BUILDWID WASTE2	0.00	0.00	0.00	0.00	0.00	0.00
SO BUILDWID WASTE2	0.00	0.00	0.00	22.17	23.79	24.68
SO BUILDWID WASTE2	24.82	0.00	14.63	27.11	0.00	0.00
SO BUILDWID WASTE2	0.00	0.00	0.00	0.00	0.00	0.00

SO SRCGROUP ALL  
SO SRCGROUP 1 CELL1 CELL2 CELL3 CELL4 CELL5  
SO SRCGROUP 2 WASTE1 WASTE2  
SO FINISHED

ME STARTING  
ME INPUTFIL 12842-ALL.OUT  
ME ANEMHGHT 10.  
ME SURFDATA 12842 1987 TAMPA, FL  
ME UAIRDATA 12842 1987 TAMPA, FL  
ME FINISHED

\*\*\* THE MAXIMUM 50 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): STACK , CELL1 , CELL2 , CELL3 , CELL4 , CELL5 , WASTE1 ,

WASTE2

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

RANK (XR, YR) OF TYPE	CONC (YYMMDDHH) AT	RECEPTOR (XR, YR) OF TYPE	RANK	CONC (YYMMDDHH) AT	RECEPTOR
1.	4.61744 (91021524) AT (	168.61, -88.41) DC	26.	2.96506 (88012824) AT (	-466.86, -408.75) DC
2.	4.54582 (91021524) AT (	194.09, -113.37) DC	27.	2.94879 (90102724) AT (	-652.66, -369.87) DC
3.	4.48742 (91021524) AT (	201.20, -100.60) DC	28.	2.94292 (91021524) AT (	220.04, -163.32) DC
4.	4.18722 (91021524) AT (	219.09, -113.33) DC	29.	2.93541 (88012824) AT (	-516.50, -434.05) DC
5.	4.07727 (91021524) AT (	193.61, -88.37) DC	30.	2.92113 (88092824) AT (	-341.86, -408.00) DC
6.	3.86871 (91021524) AT (	219.56, -138.32) DC	31.	2.92095 (87033124) AT (	219.56, -138.32) DC
7.	3.80803 (91021524) AT (	244.57, -138.28) DC	32.	2.87836 (87033124) AT (	169.56, -138.40) DC
8.	3.50274 (91021524) AT (	244.09, -113.29) DC	33.	2.87831 (91021524) AT (	270.52, -188.23) DC
9.	3.45528 (91021524) AT (	194.56, -138.36) DC	34.	2.87323 (90102724) AT (	-701.66, -419.87) DC
10.	3.41158 (91021524) AT (	269.57, -138.24) DC	35.	2.85377 (87033124) AT (	220.04, -163.32) DC
11.	3.40788 (91021524) AT (	270.05, -163.24) DC	36.	2.84962 (91021524) AT (	269.10, -113.25) DC
12.	3.36348 (91021524) AT (	218.61, -88.33) DC	37.	2.84862 (87111224) AT (	-491.86, -408.90) DC
13.	3.32691 (91021524) AT (	245.04, -163.28) DC	38.	2.84154 (88012824) AT (	-541.50, -434.20) DC
14.	3.27851 (90102724) AT (	-627.66, -369.86) DC	39.	2.84150 (87112324) AT (	-630.69, -219.89) DC
15.	3.22241 (88012824) AT (	-442.22, -383.60) DC	40.	2.81751 (91121724) AT (	-442.22, -383.60) DC
16.	3.20906 (87033124) AT (	194.09, -123.37) DC	41.	2.81142 (91021524) AT (	301.80, -201.20) DC
17.	3.19392 (87033124) AT (	168.61, -88.41) DC	42.	2.80594 (87111224) AT (	-442.22, -383.60) DC
18.	3.15532 (87033124) AT (	194.56, -138.36) DC	43.	2.80029c(88012524) AT (	195.03, -163.36) DC
19.	3.13205 (88012824) AT (	-491.86, -408.90) DC	44.	2.78688 (87033124) AT (	195.03, -163.36) DC
20.	3.10614 (88012824) AT (	-492.21, -383.90) DC	45.	2.77273 (90102724) AT (	-704.10, -402.30) DC
21.	3.09277 (88012824) AT (	-502.90, -402.30) DC	46.	2.75780 (91110524) AT (	-342.22, -383.00) DC
22.	3.01474 (90102724) AT (	-677.16, -394.87) DC	47.	2.75745 (88012824) AT (	-541.15, -459.20) DC
23.	2.99856 (90102724) AT (	-652.16, -394.86) DC	48.	2.75435 (90102724) AT (	-726.66, -419.87) DC
24.	2.97677 (88012824) AT (	-516.86, -409.05) DC	49.	2.74885 (91030424) AT (	168.61, -88.41) DC
25.	2.96806c(88012524) AT (	169.56, -138.40) DC	50.	2.74053 (88012824) AT (	-491.50, -433.90) DC

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
 GP = GRIDPOLR  
 DC = DISCCART  
 DP = DISCPOLR  
 BD = BOUNDARY

\*\*MODELOPTs:  
 CONC

RURAL FLAT DFAULT

PAGE 322  
 NOCMPL

\*\*\* THE MAXIMUM 50 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1 \*\*\*  
 INCLUDING SOURCE(S): CELL1 , CELL2 , CELL3 , CELL4 , CELL5

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3

RANK (XR, YR) OF TYPE	CONC (YYMMDDHH) AT	RECEPTOR (XR, YR) OF TYPE	RANK	CONC (YYMMDDHH) AT	RECEPTOR
1.	2.68265 (87033124) AT (	168.61, -88.41) DC	26.	1.66300 (87012224) AT (	194.56, -138.36) DC
2.	2.38147 (91042124) AT (	168.61, -88.41) DC	27.	1.64233 (87033124) AT (	169.56, -138.40) DC
3.	2.35095 (91030424) AT (	168.61, -88.41) DC	28.	1.62336 (87120424) AT (	201.20, -100.60) DC
4.	2.34865 (91021524) AT (	168.61, -88.41) DC	29.	1.62040 (91021524) AT (	219.09, -113.33) DC
5.	2.27916 (87033124) AT (	194.09, -113.37) DC	30.	1.61680 (88031924) AT (	194.56, -138.36) DC
6.	2.14057 (87120424) AT (	168.61, -88.41) DC	31.	1.58887c (88012524) AT (	195.03, -163.36) DC
7.	2.04153 (87012224) AT (	168.61, -88.41) DC	32.	1.58082 (87120424) AT (	194.09, -113.37) DC
8.	2.01634 (91030424) AT (	194.09, -113.37) DC	33.	1.56913 (87111124) AT (	168.61, -88.41) DC
9.	1.96669 (87033124) AT (	194.56, -138.36) DC	34.	1.55761 (87033124) AT (	219.09, -113.33) DC
10.	1.93272 (88031924) AT (	168.61, -88.41) DC	35.	1.53547 (87033124) AT (	220.04, -163.32) DC
11.	1.92187c (88012524) AT (	169.56, -138.40) DC	36.	1.52780 (87012224) AT (	169.56, -138.40) DC
12.	1.87119 (91021524) AT (	193.61, -88.37) DC	37.	1.52035c (88012524) AT (	220.04, -163.32) DC
13.	1.84841 (87033124) AT (	219.56, -138.32) DC	38.	1.50002 (88031024) AT (	169.56, -138.40) DC
14.	1.84437 (91030424) AT (	194.56, -138.36) DC	39.	1.48700 (87012224) AT (	219.56, -138.32) DC
15.	1.84435 (91021524) AT (	201.20, -100.60) DC	40.	1.48635 (87033124) AT (	245.04, -163.28) DC
16.	1.81004 (87012224) AT (	194.09, -113.37) DC	41.	1.47793 (91042124) AT (	219.09, -113.33) DC
17.	1.78068c (88012524) AT (	194.56, -138.36) DC	42.	1.46904 (87120424) AT (	193.61, -88.37) DC
18.	1.76920 (88031924) AT (	169.56, -138.40) DC	43.	1.46526 (90030324) AT (	193.61, -88.37) DC
19.	1.75867 (91021524) AT (	194.09, -113.37) DC	44.	1.46111 (87033124) AT (	193.61, -88.37) DC
20.	1.75100 (91042124) AT (	194.09, -113.37) DC	45.	1.46040 (90102524) AT (	169.56, -138.40) DC
21.	1.72261 (87033124) AT (	201.20, -100.60) DC	46.	1.45830 (87033124) AT (	244.57, -138.28) DC
22.	1.72051 (91042124) AT (	193.61, -88.37) DC	47.	1.45539 (91030424) AT (	169.56, -138.40) DC
23.	1.71977 (88031924) AT (	194.09, -113.37) DC	48.	1.44609 (87120424) AT (	219.09, -113.33) DC
24.	1.71826 (91042124) AT (	201.20, -100.60) DC	49.	1.43649 (88031424) AT (	168.61, -88.41) DC
25.	1.67316 (91030424) AT (	219.56, -138.32) DC	50.	1.43309 (90030324) AT (	168.61, -88.41) DC

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
 GP = GRIDPOLR  
 DC = DISCCART  
 DP = DISCPOLR  
 BD = BOUNDARY

\*\*MODELOPTS:  
 CONC

RURAL FLAT DEFAULT

\*\*\* THE MAXIMUM 50 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 2 \*\*\*  
 INCLUDING SOURCE(S): WASTE1 , WASTE2 ,

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

RANK (XR,YR) OF TYPE	CONC	(YYMMDDHH) AT	RECEPTOR (XR,YR) OF TYPE	RANK	CONC	(YYMMDDHH) AT	RECEPTOR
1.	3.25036	(90102724) AT (	-627.66, -369.86) DC	26.	2.64662	(89111224) AT (	-341.86, -408.00) DC
2.	3.19837	(88012824) AT (	-442.22, -383.60) DC	27.	2.64456	(87111224) AT (	-502.90, -402.30) DC
3.	3.10769	(88012824) AT (	-491.86, -408.90) DC	28.	2.64419	(88092824) AT (	-366.50, -433.15) DC
4.	3.08531	(88012824) AT (	-492.21, -383.90) DC	29.	2.63844	(89111224) AT (	-342.22, -383.00) DC
5.	3.06946	(88012824) AT (	-502.90, -402.30) DC	30.	2.61448	(87112324) AT (	-655.70, -219.90) DC
6.	2.97864	(90102724) AT (	-677.16, -394.87) DC	31.	2.60432	(91121724) AT (	-466.86, -408.75) DC
7.	2.96613	(90102724) AT (	-652.16, -394.86) DC	32.	2.58472	(91110524) AT (	-341.86, -408.00) DC
8.	2.95243	(88012824) AT (	-516.86, -409.05) DC	33.	2.58443	(89111224) AT (	-366.50, -433.15) DC
9.	2.94034	(88012824) AT (	-466.86, -408.75) DC	34.	2.58421	(90102724) AT (	-702.17, -394.87) DC
10.	2.91760	(90102724) AT (	-652.66, -369.87) DC	35.	2.58393	(88111524) AT (	-342.22, -383.00) DC
11.	2.90793	(88092824) AT (	-341.86, -408.00) DC	36.	2.56309	(90102724) AT (	-676.65, -419.86) DC
12.	2.90706	(88012824) AT (	-516.50, -434.05) DC	37.	2.55874	(88012824) AT (	-565.79, -484.35) DC
13.	2.84125	(87111224) AT (	-491.86, -408.90) DC	38.	2.54522	(87112324) AT (	-680.16, -244.90) DC
14.	2.83168	(90102724) AT (	-701.66, -419.87) DC	39.	2.54303	(90102724) AT (	-726.16, -444.87) DC
15.	2.82246	(87112324) AT (	-630.69, -219.89) DC	40.	2.53957	(87111224) AT (	-466.86, -408.75) DC
16.	2.81300	(88012824) AT (	-541.50, -434.20) DC	41.	2.53930	(88012824) AT (	-590.79, -484.50) DC
17.	2.81243	(91121724) AT (	-442.22, -383.60) DC	42.	2.52146	(91121724) AT (	-491.86, -408.90) DC
18.	2.79966	(87111224) AT (	-442.22, -383.60) DC	43.	2.51929c	(89110524) AT (	-491.86, -408.90) DC
19.	2.75541	(91110524) AT (	-342.22, -383.00) DC	44.	2.51316	(91110524) AT (	-366.86, -408.15) DC
20.	2.73179	(90102724) AT (	-704.10, -402.30) DC	45.	2.51281	(88012824) AT (	-516.15, -459.05) DC
21.	2.72491	(88012824) AT (	-541.15, -459.20) DC	46.	2.51083	(88012824) AT (	-541.86, -409.20) DC
22.	2.71289	(88012824) AT (	-491.50, -433.90) DC	47.	2.50243c	(89091324) AT (	-342.22, -383.00) DC
23.	2.70809	(90102724) AT (	-726.66, -419.87) DC	48.	2.49411	(87111224) AT (	-541.15, -459.20) DC
24.	2.67380	(88012824) AT (	-566.15, -459.35) DC	49.	2.49136	(87112324) AT (	-655.19, -244.89) DC
25.	2.66449	(87111224) AT (	-516.50, -434.05) DC	50.	2.49094	(88012824) AT (	-566.50, -434.35) DC

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
 GP = GRIDPOLR  
 DC = DISCCART  
 DP = DISCPOLR  
 BD = BOUNDARY

\*\*MODELOPTs:  
 CONC

RURAL FLAT DFAULT

NOCMPL

\*\*\* THE SUMMARY OF MAXIMUM ANNUAL ( 5 YRS) RESULTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZFLAG)				OF TYPE	NETWORK GRID-ID
ALL	1ST HIGHEST VALUE IS	0.29512 AT (	-442.22,	-383.60,	0.00,	0.00)	DC	NA
	2ND HIGHEST VALUE IS	0.27526 AT (	-466.86,	-408.75,	0.00,	0.00)	DC	NA
	3RD HIGHEST VALUE IS	0.27525 AT (	-492.21,	-383.90,	0.00,	0.00)	DC	NA
	4TH HIGHEST VALUE IS	0.27257 AT (	-491.86,	-408.90,	0.00,	0.00)	DC	NA
	5TH HIGHEST VALUE IS	0.26896 AT (	-629.68,	-269.88,	0.00,	0.00)	DC	NA
	6TH HIGHEST VALUE IS	0.26795 AT (	-502.90,	-402.30,	0.00,	0.00)	DC	NA
	7TH HIGHEST VALUE IS	0.26479 AT (	-592.21,	-384.50,	0.00,	0.00)	DC	NA
	8TH HIGHEST VALUE IS	0.26268 AT (	-628.67,	-319.87,	0.00,	0.00)	DC	NA
	9TH HIGHEST VALUE IS	0.26220 AT (	-627.66,	-369.86,	0.00,	0.00)	DC	NA
	10TH HIGHEST VALUE IS	0.26162 AT (	-542.21,	-384.20,	0.00,	0.00)	DC	NA
1	1ST HIGHEST VALUE IS	0.05638 AT (	168.61,	-88.41,	0.00,	0.00)	DC	NA
	2ND HIGHEST VALUE IS	0.04426 AT (	169.56,	-138.40,	0.00,	0.00)	DC	NA
	3RD HIGHEST VALUE IS	0.04300 AT (	194.09,	-113.37,	0.00,	0.00)	DC	NA
	4TH HIGHEST VALUE IS	0.04002 AT (	194.56,	-138.36,	0.00,	0.00)	DC	NA
	5TH HIGHEST VALUE IS	0.03881 AT (	193.61,	-88.37,	0.00,	0.00)	DC	NA
	6TH HIGHEST VALUE IS	0.03785 AT (	201.20,	-100.60,	0.00,	0.00)	DC	NA
	7TH HIGHEST VALUE IS	0.03392 AT (	195.03,	-163.36,	0.00,	0.00)	DC	NA
	8TH HIGHEST VALUE IS	0.03342 AT (	219.56,	-138.32,	0.00,	0.00)	DC	NA
	9TH HIGHEST VALUE IS	0.03226 AT (	219.09,	-113.33,	0.00,	0.00)	DC	NA
	10TH HIGHEST VALUE IS	0.03119 AT (	220.04,	-163.32,	0.00,	0.00)	DC	NA
2	1ST HIGHEST VALUE IS	0.29211 AT (	-442.22,	-383.60,	0.00,	0.00)	DC	NA
	2ND HIGHEST VALUE IS	0.27176 AT (	-466.86,	-408.75,	0.00,	0.00)	DC	NA
	3RD HIGHEST VALUE IS	0.27170 AT (	-492.21,	-383.90,	0.00,	0.00)	DC	NA
	4TH HIGHEST VALUE IS	0.26872 AT (	-491.86,	-408.90,	0.00,	0.00)	DC	NA
	5TH HIGHEST VALUE IS	0.26399 AT (	-502.90,	-402.30,	0.00,	0.00)	DC	NA
	6TH HIGHEST VALUE IS	0.26377 AT (	-629.68,	-269.88,	0.00,	0.00)	DC	NA
	7TH HIGHEST VALUE IS	0.25923 AT (	-592.21,	-384.50,	0.00,	0.00)	DC	NA
	8TH HIGHEST VALUE IS	0.25718 AT (	-542.21,	-384.20,	0.00,	0.00)	DC	NA
	9TH HIGHEST VALUE IS	0.25696 AT (	-628.67,	-319.87,	0.00,	0.00)	DC	NA
	10TH HIGHEST VALUE IS	0.25688 AT (	-441.86,	-408.60,	0.00,	0.00)	DC	NA

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
 GP = GRIDPOLR  
 DC = DISCCART  
 DP = DISCPOLR  
 BD = BOUNDARY

\*\*MODELOPTS:  
 CONC

RURAL FLAT DFAULT

\*\*\* THE SUMMARY OF HIGHEST 24-HR RESULTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR	(XR, YR, ZELEV, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	4.61744 ON 91021524	AT ( 168.61,	-88.41, 0.00,	0.00)	DC NA
1	HIGH 1ST HIGH VALUE IS	2.68265 ON 87033124	AT ( 168.61,	-88.41, 0.00,	0.00)	DC NA
2	HIGH 1ST HIGH VALUE IS	3.25036 ON 90102724	AT ( -627.66,	-369.86,	0.00,	0.00) DC NA