

# **APPENDIX A**

## **FIGURES**





FIGURE A-3. Project Cancer Risk Isopleths (1 in a million)

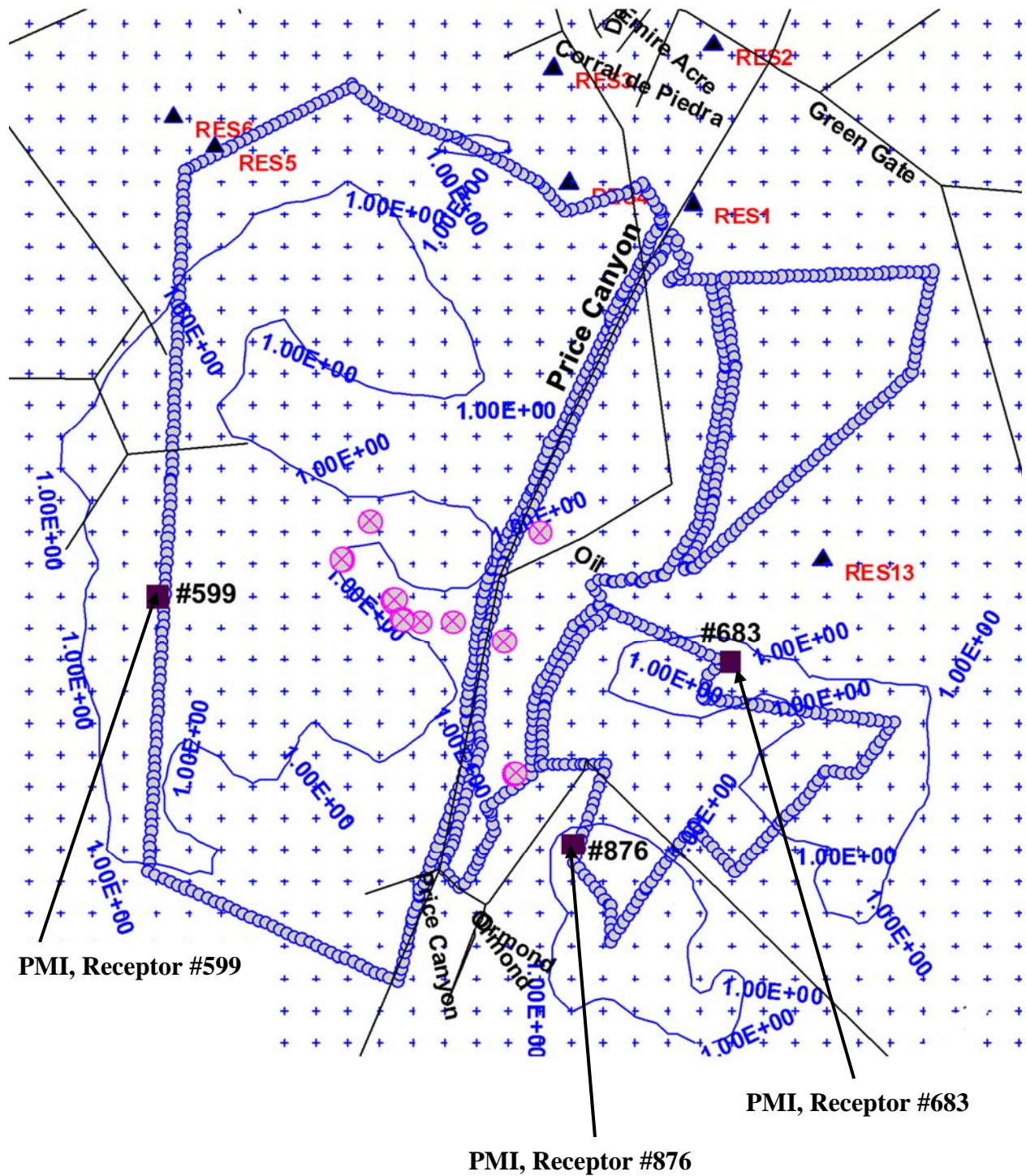


FIGURE A-4. Baseline Chronic Risk Isoleths (HI = 0.02)

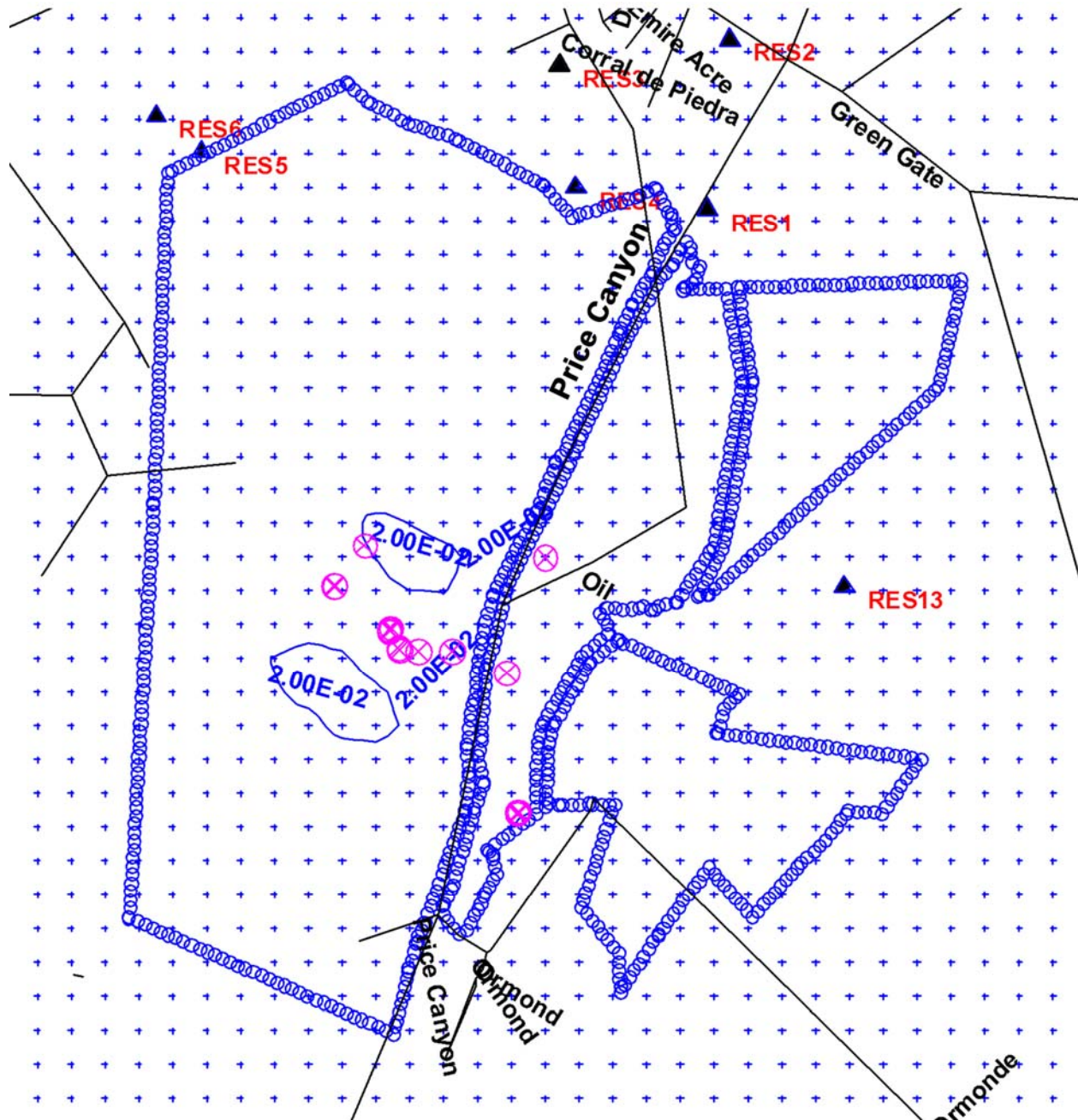


FIGURE A-5. Project Chronic Risk Isopleths (HI = 0.1)

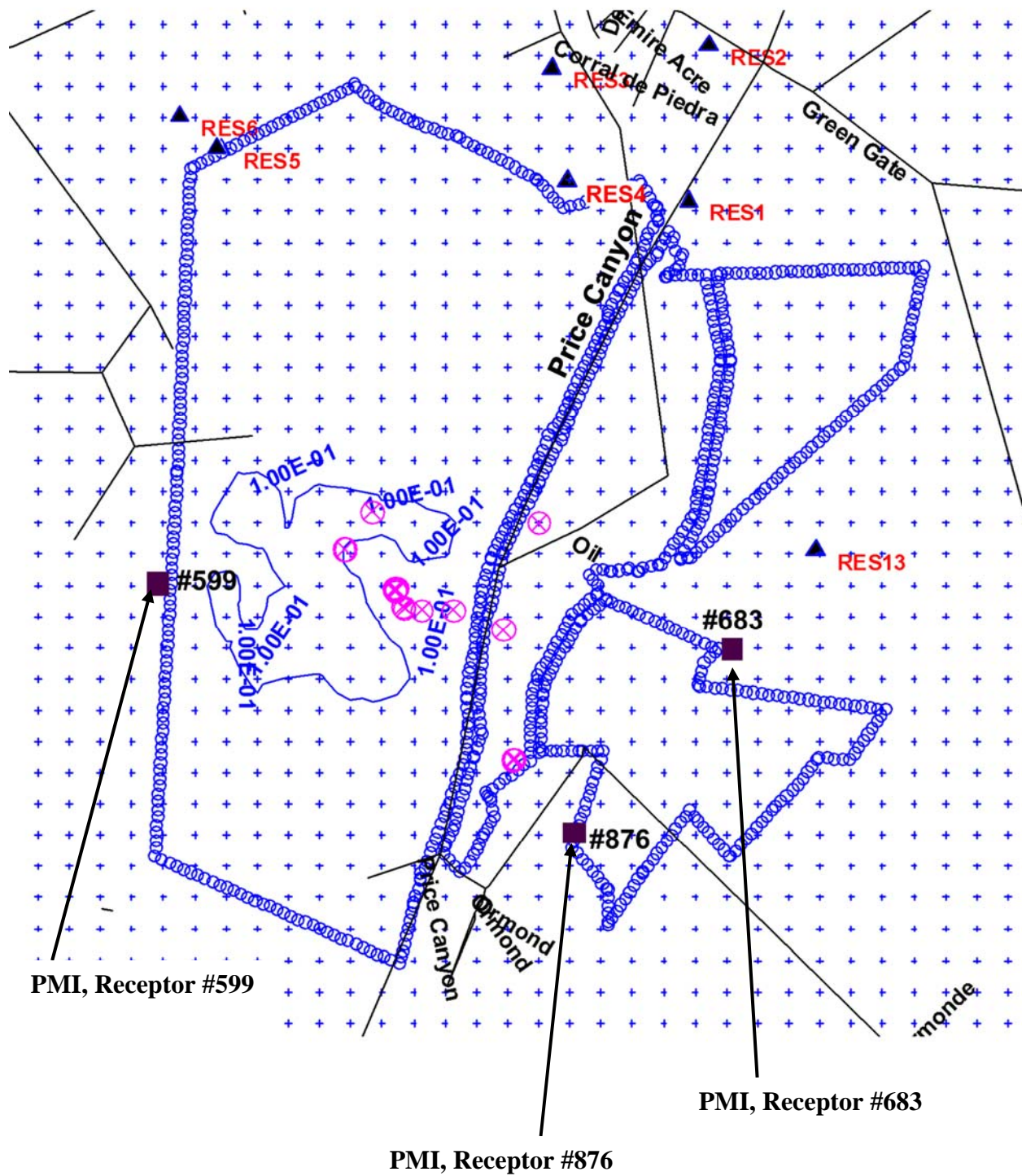


FIGURE A-6. Baseline Acute Isopleths (HI = 0.1)

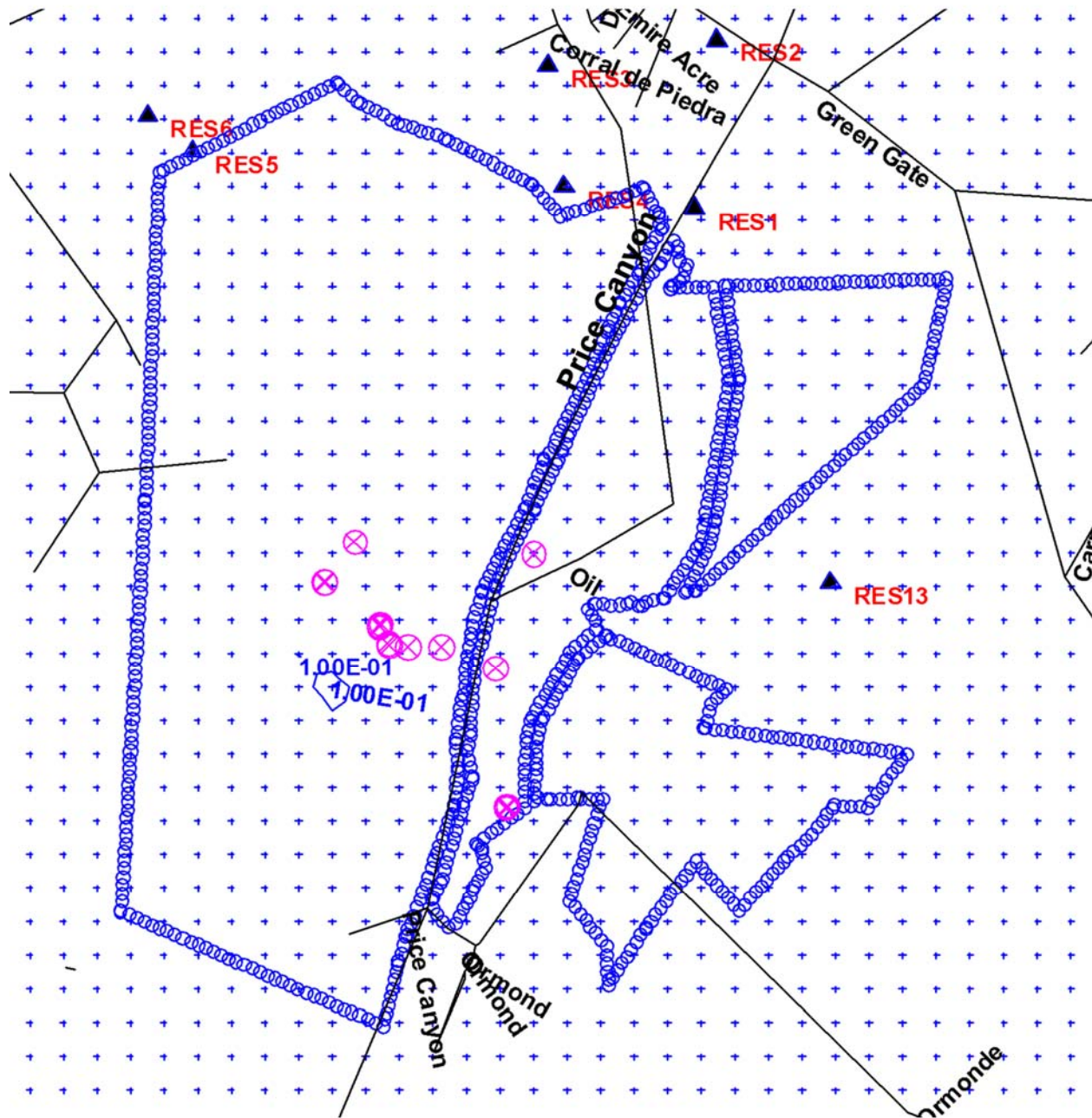
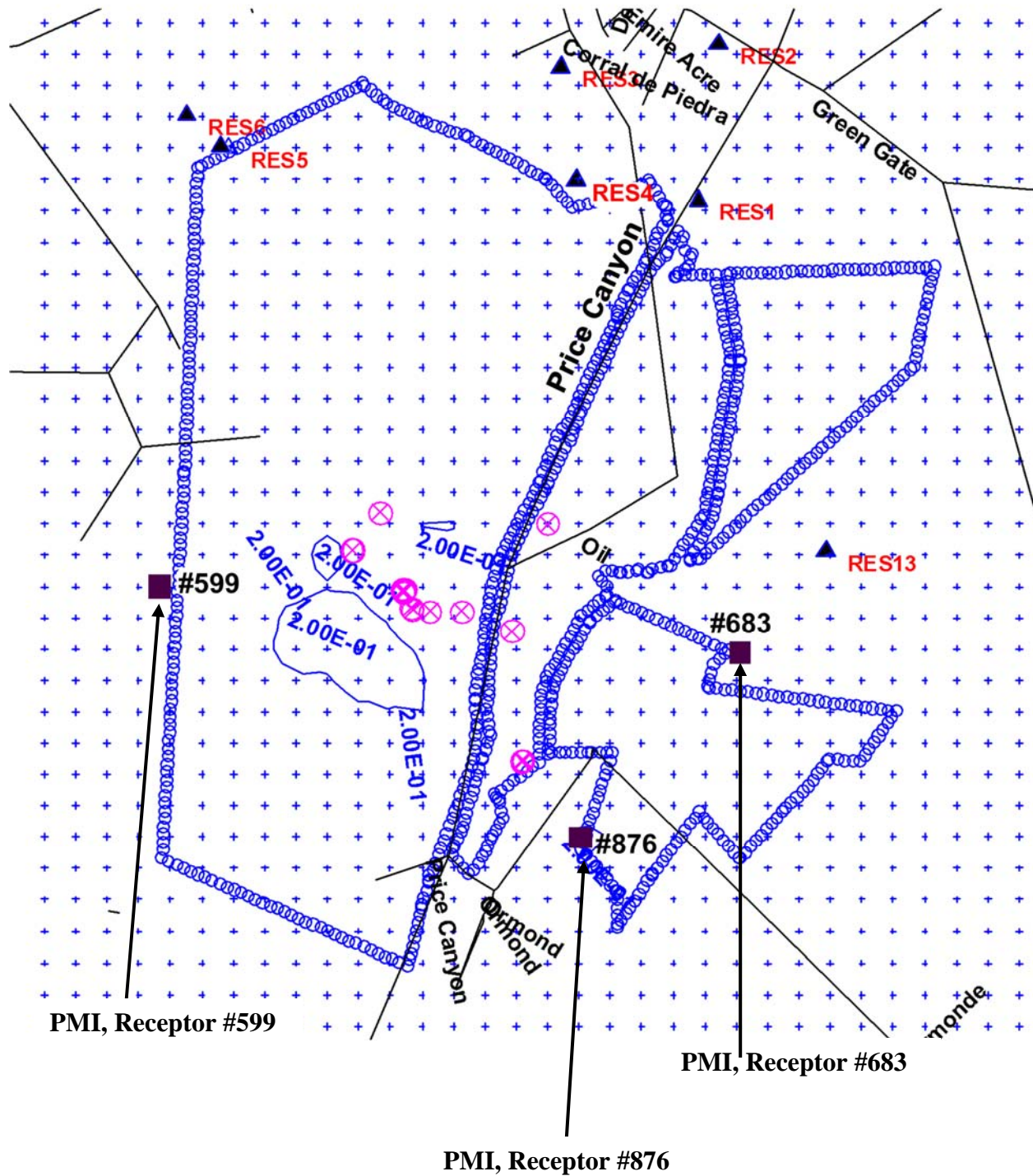


FIGURE A-7. Project Acute Isopleths (HI = 0.2)



**Table 3. Facility Equipment Emission Factors**

<b>EQUIPMENT</b>		<b>EMISSION FACTORS</b>	
<b>Steam Generators</b>	<b>CAS</b>	<b>lb/MMBtu *</b>	<b>lb/MMscf **</b>
PAH with indiv components	1150	3.92E-07	0.0004
Xylenes	1210	1.93E-05	0.0197
Formaldehyde	50000	1.21E-05	0.0123
Benzene	71432	5.69E-06	0.0058
Acetaldehyde	75070	3.04E-06	0.0031
Ethyl Benzene	100414	6.76E-06	0.0069
Acrolein	107028	2.65E-06	0.0027
Toluene	108883	2.60E-05	0.0265
Hexane	110543	4.51E-06	0.0046
Propylene	115071	5.20E-04	0.5300
<b>Turbine/Cogen ***</b>	<b>CAS</b>	<b>lb/MMBtu***</b>	
PAH w/o indiv components	1151	2.20E-06	
Xylenes	1210	6.40E-05	
Formaldehyde	50000	7.10E-04	
Benzene	71432	1.20E-05	
Acetaldehyde	75070	4.00E-05	
Propylene Oxide	75569	2.90E-05	
Naphthalene	91203	1.30E-06	
Ethylbenzene	100414	3.20E-05	
1,3-Butadiene	106990	4.30E-07	
Acrolein	107028	6.40E-06	
Toluene	108883	1.30E-04	
<b>Heater Treater*</b>	<b>CAS</b>	<b>lb/MMBtu*</b>	<b>lb/MMscf**</b>
PAH w indiv components	1150	3.92E-07	0.0004
Xylenes	1210	2.67E-05	0.0272
Formaldehyde	50000	1.67E-05	0.0170
Benzene	71432	7.84E-06	0.0080
Acetaldehyde	75070	4.22E-06	0.0043
Ethyl Benzene	100414	9.31E-06	0.0095
Acrolein	107028	2.65E-06	0.0027
Toluene	108883	3.59E-05	0.0366
Hexane	110543	6.18E-06	0.0063
Propylene	115071	7.17E-04	0.7310
<b>Fugitives and Wells (Including New Wells)</b>	<b>CAS</b>	<b>VOC Weight Fraction</b>	
Xylenes	1210	0.002	na
Benzene	71432	0.001	na
Toluene	108883	0.005	na
Hexane	110543	0.034	na
Cyclohexane	110827	0.001	na
Propylene	115071	0.001	na
H <sub>2</sub> S	7783064	0.027	na
<b>Air Strippers of the Water Treatment Facility</b>	<b>CAS</b>	<b>Treated Water, µg/L ****</b>	
Xylenes	1210	3.00	na

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