SUSITNA HYDROELECTRIC PROJECT

FEDERAL ENERGY REGULATORY COMMISSION
PROJECT No. 7114

HARZA-EBASCO
Susitna Joint Venture
Document Number

2612

Please Return To
DOCUMENT CONTROL

RESPONSE TO FEDERAL ENERGY REGULATORY COMMISSION DATA REQUEST OF MARCH 4, 1985

VOLUME 1

ITEMS 1a - 1e
ITEM 2
ITEMS 3a - 3c

HARZA-EBASCO
SUSITNA JOINT VENTURE

MARCH 19, 1985

ALASKA POWER AUTHORITY

SUSITNA

HYDROELECTRIC PROJECT

Federal Energy Regulatory Commission

Project No. 7114

ALASKA POWER AUTHORITY

RESPONSE TO

FEDERAL ENERGY REGULATORY COMMISSION

DATA REQUEST OF

MARCH 4, 1985

Volume 1

Items 1a-1e

Item 2

Items 3a-3c

March 19, 1985

610541

Item 1: "List of all air pollution emitting equipment to be used during Susitna dam construction. To be included are:"

(a) "Number and type of equipment used."

Response:

Based on preliminary assumptions regarding earth and rockfill dam construction practices, a list of construction equipment anticipated during the peak year of the Watana dam construction is given in Table 1. The list includes only equipment that will be powered by diesel engines. Other pieces of equipment to be used at the site (e.g., the rock conveyors and gravel processing plant) will be powered by stationary diesel electric generators.

Air quality analysis on the stationary diesel electric generators was filed with the Commission on April 23, 1984 (Items 3B-9 and A-3-1).

The number of pieces of equipment listed in Table 1 apply to only the peak years of construction (years 4 and 5). According to the 1983 FERC license application (Volume 1, Exhibit C, p. C-1-3), the following construction sequence is anticipated:

Construction Year	Dam Fill Quantity (cy x 10^6)
1	3
2	6
3	12
4	13
5	13
6	12
7	3

TABLE 1

DISTRIBUTION OF CONSTRUCTION EQUIPMENT

DURING PEAK YEAR OPERATIONS

WATANA DAM

Quarry A/Required Excavations:	9 - 40 cy haul trucks
	2 - D8 dozers
	2 - Front loaders
Borrow Area D:	7 - 40 cy haul trucks
	2 - 12 cy dragline
	2 - D8 dozers
	2 - D8 Push cats
Borrow Area E:	27 - 40 cy haul trucks
	2 - 12 cy dragline
	2 - D8 dozers
	2 - D8 Push cats
Quarry A Conveyor Toe:	10 - 40 cy haul trucks
Borrow Area D Conveyor Toe:	5 - 40 cy haul trucks
Dam Placement Area:	3 - D8 Roller cats
	3 - D8 Push cats
	3 - D8 dozers
	2 - Water trucks
	3 - Motor graders
General Haul Road Maintenance:	4 - Water trucks
	2 - Motor graders

It can be assumed that the amount of required construction equipment will be roughly proportional to the volume of fill placed in a given year.

(b) "The time period over which they are to be used, including the work shifts they are used per day."

Response:

Watana dam construction is planned to last 6 to 7 years. Dam fill placement will be done between April and October of each year. Rock quarrying will be done between March and November of each year. A 7-day work week will be used, with two 10-hour daily work shifts.

(c) "The fuel usage (and type of fuel used) per day for each piece of equipment."

Response:

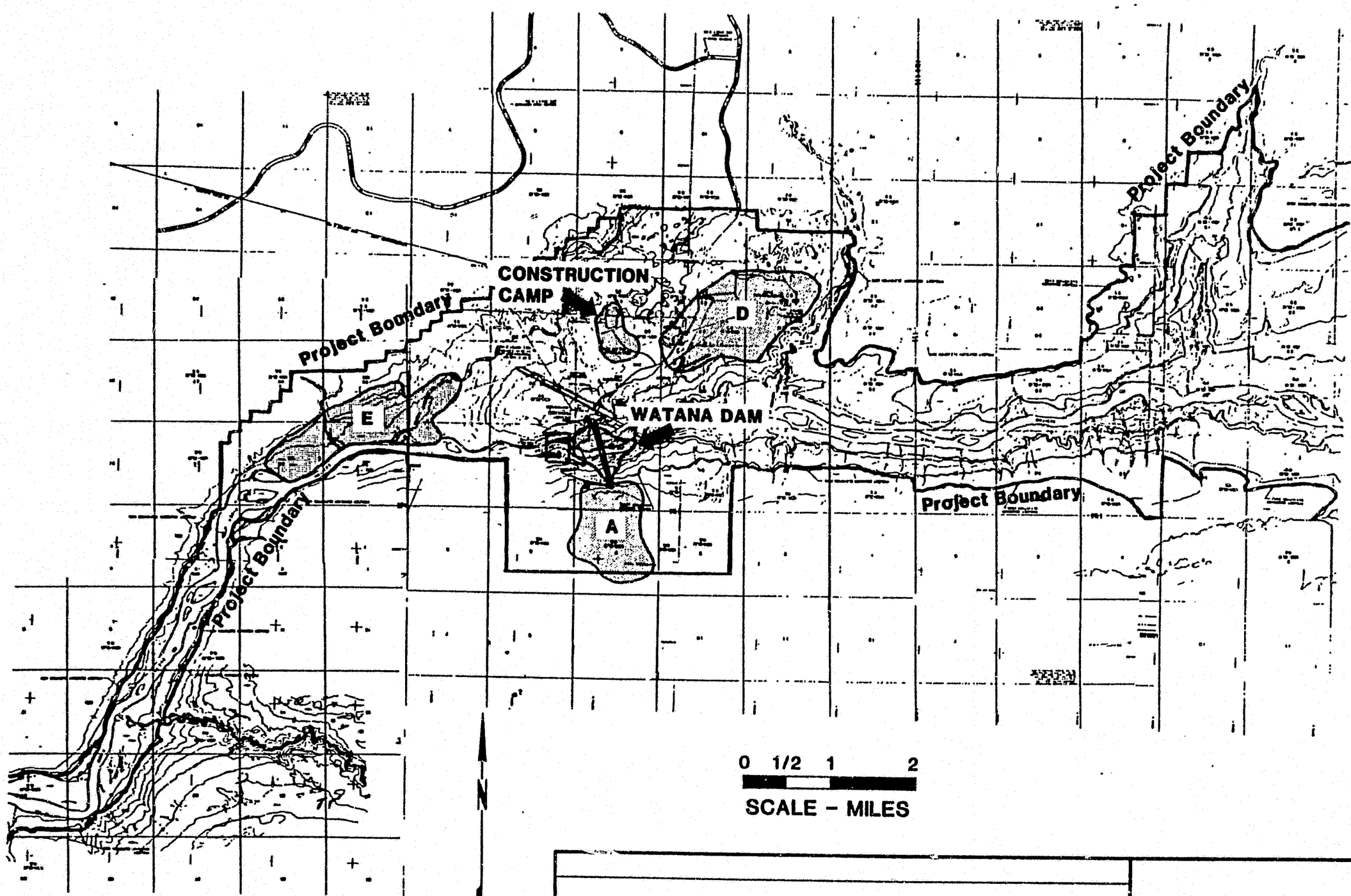
All equipment items that are listed in Table 1 will use diesel fuel. Based on information from equipment manufacturers and available literature on construction equipment, the following fuel consumption rates are anticipated:

D8 Dozers	-	14 gal/hr
Front Loaders	-	14 gal/hr
Motor Graders	-	7 gal/hr
40 cy Haul Truck	-	10 gal/hr

(d) "Location of the site where the equipment will be used on a monthly basis."

Response:

The material sources for the Watana site from where the dam fill will be excavated are shown in Figure 1. The construction activities that will be performed at each source are listed in Table 2. The quantities of construction material from each source during the peak construction year are listed in Table 3. The soil properties for the dam fill material excavated from each source are listed in Table 4.



PRELIMINARY DAM FILL BORROW AREAS

Figure 1

HARZA-EBASCO

TABLE 2

CONSTRUCTION ACTIVITIES
WATANA DAM

Quarry A/Required Excavations (March - November)

- Rock drilling and blasting
- Rock loading to haul trucks
- Rock hauling to conveyor (1-mile round trip over 1% silt haul road, size parameter 0.8, 8-wheel 37 ton average weight truck, 20 mph haul speed)
- Conveyor loading

Quarry A Conveyor Toe (March - November)

- Conveyor unloading to stockpile
- Haul truck loading
- Rock hauling to dam placement site (1-mile round trip over 0.25% silt washed gravel haul road, size parameter 0.8, 8-wheel 37 ton average weight truck, 10 mph haul speed)

Borrow Area D (April - October)

- Spoil material removal and reclamation
- Product removal by dragline
- Product loading onto haul trucks
- Soil hauling to conveyor (4-mile round trip over 1% silt haul road, size parameter 0.8, 8-wheel 39 ton average weight truck, 20 mph haul speed)
- Dumping into conveyor
- Conveyor to dam site loading area

Borrow Area D Conveyor Toe (April - October)

- Conveyor unloading to stockpiles
- Stockpile loading to haul trucks
- Product hauling to dam site (1-mile round trip over 0.25% silt washed gravel haul road, size parameter 0.8, 8-wheel 39 ton average weight truck, 10 mph haul speed)

TABLE 2 (Continued)

Borrow Area E (April - October)

- Wet gravel excavation by dragline
- Wet gravel dumping into stockpiles
- Ten day working stockpile
- Gravel screening plant (wet process)
- Washed gravel loading into trucks
- Hauling to dam site (5-mile round trip over 0.25% silt gravel haul road, size parameter 0.8, 8-wheel 36 ton average weight truck, 15 mph haul speed)

Damsite Operations

- Fill placement and compaction (rockfill: March - November; earthfill: April - October)
- Watering of fill
- Discing and scarifying

Construction Camp

- Daily commuting of workers (100 round trips/day, 3-mile round trip, 4-wheel 5 ton van, 30 mph speed, 1% silt, size parameter 0.8)

TABLE 3

ASSUMED PEAK YEAR CONSTRUCTION MATERIAL QUANTITIES

WATANA DAM

Borrow Area	Fill Type	Embankment Quantity (Cubic Yards/Day)	Haul Quantity (Tons/Day)	Assumed Spoil Material (Tons/Day)
Quarry A/ Required Excavations	Rock Fill	24,600	39,600	Negligible
D	Impervious Fill	10,800	21,300	1,800
E	Filter and Shell Fills	36,800	60,400	Negligible

TABLE 4

ASSUMED EXCAVATED SOIL PROPERTIES

WATANA DAM

Borrow Area	Silt Content (%)	Moisture (%)
A	1	Negligible
D	10	10
E	5 (Before Washing) 0.25 (After washing)	15 (As excavated) 5 (After stockpiling)
Spoil Material	30	15

The assumed operations at each of the material sources are described below. Note that the operations described here are based on feasibility-level assumptions. The actual dam construction plan developed by the construction contractor eventually selected will probably be different from the one described below.

Borrow Area D (April - October)

The gravel- clay soil mixture for the dam core will be excavated from Borrow Area D, on the plateau north of the dam site. Spoil material will be moved aside and the gravel and clay soils will be excavated by dragline. The soil will be transported in haul trucks to a conveyor that will carry the soil down the bluff. The conveyor will discharge to a working stockpile. Additional haul trucks will transport the soil from the conveyor toe to the dam embankment zone.

Borrow Area E (April - October)

Sand-gravel material for the dam fill filters will be excavated by dragline from Borrow Area E, downstream of the dam. The wet sands and gravels will be screened and washed at a gravel processing area within the borrow area. The washed gravel will be transported from stockpiles in haul trucks to the dam embankment zone.

Quarry Area A/Required Excavations (March - November)

The rock fill to be used for the outer layers of the earth- and rockfill dam will be mined from Quarry A, and/or required excavations. The hard rock will be blasted, loaded into haul trucks and transported to a conveyor, which will carry the rock down the bluff. The conveyor will discharge to a working stockpile. The rock fill will be transported by haul trucks from the conveyor toe to the dam embankment zone.

Dam Embankment Zone

The impervious core, filters, and rock fill will be spread, wetted/dried, and compacted in thin lifts, using pneumatic and vibratory rollers. The haul roads to the dam embankment zone will be constructed of clean river gravel with binder material. Rockfill will be placed from March through November; earthfill will be placed from April through October.

(e) "Emissions of NO_x and TSP from the exhaust of the equipment, as well as TSP from the wheels as a function of time for each class of equipment."

Response:

The tailpipe emissions and fugitive dust emissions for each operation at the borrow areas and dam site were calculated using the preliminary construction plan and assumptions shown in Table 2, the tentative material quantities shown in Table 3 and Table 4, and the most recent air pollutant emission factors (EPA 1983; EPA 1981). The emission factors for tailpipe emissions of NO_x and TSP were from the AP-42 emission factors (EPA 1983). Those emission factors are known to give conservatively high results. The emission factors and assumed mitigations used to predict the fugitive dust emissions from the excavation operations and haul trucks are listed in Table 5.

Based on the assumed dam construction operations, the calculated fugitive dust emissions and tailpipe emissions for each of the construction zones are listed in Table 6. Those calculated emissions apply to the peak construction period, as described in Item (a) above. The emissions during the non-peak construction periods will be less than those shown in Table 6.

The calculated emission rates shown in Table 6 were based on preliminary assumptions regarding excavation methods, material conveying methods, haul truck size and speed, haul road routes and construction materials, and dam construction practices. The actual construction plans to be used for the Watana dam will be developed by the contractor selected by the Power

TABLE 5

LISTING OF ASSUMED EMISSION FACTORS AND MITIGATIONS

WATANA DAM

Operation	Emission Factor	Emission Factor Reference	Assumed Mitigation and Efficiency
Spoil Removal	0.037 lbs/cy	EPA (1981)	None
Spoil Dumping	$\frac{K(0.0018)(s/5)(U/5)(H/5)}{(M/2)^2(Y/6)^{0.33}}$ lbs/ton	EPA (1983)	Minimize drop distance
Drilling	0.22 lbs/hole	EPA (1981)	Bag filter; 90 percent control
Blasting	25 - 78 lbs/blast	EPA (1981)	None
Product Removal	0.037 lbs/cy	EPA (1981)	None
Product Dumping	Same as Spoil Dumping		
Storage Piles	1.7(S/1.5)((365-p)/235)(f/15)	EPA (1983)	Coherex; 50 percent control
Conveyer Dumping	$\frac{K(0.0018)(s/5)(U/5)(H/10)}{(M/2)^2}$	EPA (1983)	Minimize drop distance

TABLE 5 (Continued)

Operation	Emission Factor	Emission Factor Reference	Assumed Mitigation and Efficiency
Product Hauling	$K(5.9)(s/12)(S/30)(W/3)^{0.7}(w/4)^{0.5}$ lbs/VMT	EPA (1983)	Watering or Application of penetrating chemicals; 50 percent control
Exposed Area (Wind Erosion)	Same as Storage Piles	EPA (1983)	Reseeding and chemical binders; 75 percent reduction in affected area
Dam Fill Operation	$\frac{5.7\ (S)^{1.2}}{M^{1.3}}$	EPA (1983)	Normal watering of clay fill = 100 percent reduction; no mitigation for processing of rock fill or gravel fill.

TABLE 6

SUMMARY OF EMISSIONS DURING PEAK YEAR DAM CONSTRUCTION

WATANA DAM

Operation	Quarry A/ Req. Exc.	Quarry A Conveyor Toe	Borrow Area D	Borrow Area D Conveyor Toe	Borrow Area E	Dam Area	Construction Camp
Fugitive Dust, lbs/day							
Spoil Material Removal	0	0	66	0	0	0	0
Spoil Material Replacement	0	0	66	0	0	0	0
Drilling and Blasting	57	0	0	0	0	0	0
Product Removal	910	0	140	0	0	0	0
Product Hauling	661	83	1,388	43	957	0	0
Truck Dumping at Conveyor	60	0	6	0	0	0	0
Truck Dumping to Stockpile	0	65	0	1	0	0	0
Haul Truck Loading by Conveyor	0	65	0	1	3	0	0
Fill Placement and Spreading	0	0	0	0	0	386	0
Exposed Area Erosion	160	26	458	26	199	33	448
Commuter Traffic	0	0	0	0	0	0	84
TOTAL Fugitive Dust, lbs/day	1,848	239	2,124	71	1,159	419	532
Tailpipe Emissions, lbs/day							
Particulates	82	72	75	41	219	24	0
Nitrogen Oxides	2,286	2,137	2,101	1,220	6,374	328	16.5

Authority based on competitive bids. It is likely that construction practices utilized by the contractor will be different from those that were described in Items (a) and (d).

For this reason, it is only possible to generally predict the air pollutant emission rates that will result from the dam construction. The Power Authority recognizes that a detailed air quality analysis is required to obtain a Permit to Operate from the Alaska Department of Environmental Conservation (ADEC), in accordance with 18 AAC 50.300. That detailed air quality analysis will consist of the following steps:

1) The Power Authority will prepare a detailed construction plan based on the plan of operation to be developed by the selected construction contractor. The plan of operation will specify all mitigation measures to reduce air pollution emissions.

2) The Power Authority will use the most up-to-date calculation procedures to predict air pollution emissions. The calculated emissions will reflect the specified mitigation measures identified in Step 1 above.

3) The Power Authority will use ADEC-approved computer models and onsite meteorological data to predict the ambient air quality impacts caused by the dam construction.

4) The computed air quality impacts will be compared with the specified allowable limits listed in 18 AAC 50.020.

5) If any of the computed air quality impacts exceeds the allowable limits, then the Power Authority will either revise the contractor's plan of operation, or new mitigation measures to reduce air pollutant emissions will be specified.

6) The Power Authority will repeat Steps 2 through 5 above until the ADEC-approved modeling procedures show that no exceedances of the air quality limits will result from the dam construction.

By following the above procedures, the Power Authority will work with ADEC and the selected construction contractor, to ensure that the dam construction will cause no significant air quality impacts.

REFERENCES

EPA. 1981. Summary of BACT Determinations made by EPA Region VIII for Large Surface Coal and Uranium Operations.

EPA. 1983. Compilation of Air Pollutant Emission Factors. AP-42, revised 1983.

Item 2: "Provide the details on the method of removal and disposal of trees from the site area before reservoir and dam construction. If burning is to be used, provide emissions estimates and a discussion of anticipated air quality impacts."

Response:

Prior to reservoir filling, trees and brush will be removed. The silvicultural technique to be used to dispose of woody material in the impoundment area has yet to be developed. Should open burning be employed to dispose of the vegetation, air quality impacts would need to be addressed. Total air emissions resulting from open burning of timber and brush are estimated below. Air quality impacts are discussed below.

It should be emphasized that the results presented here are worst case. Clearing techniques and schedules would be developed by the Power Authority in consultation with the appropriate regulatory agencies. Also, until a field check is undertaken the estimates presented below cannot be considered as more than indications of amounts of air emissions. Emission factors of pollutants in combustion gases resulting from fires are highly variable. Differences in burning techniques produce widely different emissions. Therefore, ranges of emission estimates for major combustion products have been calculated and presented below.

The areas to be cleared, in acres, as presented in the FERC Draft EIS, are as follows (FERC 1984, pp. J-47 and J-57):

Area	Watana	Devil Canyon
Forest	27,000	5,700
Shrubs	4,100	170
TOTAL	31,100	5,870

The volume of timber in the Watana and Devil Canyon impoundment areas was estimated using data from the U.S. Forest Service (USFS 1985). Of the six plots in the impoundment area that were surveyed by the Forest Service, the volume of trees with a diameter at breast height of five inches or greater ranged from zero to 984 ft^3/acre. To conservatively account for all vegetation, including large and small trees, shrubs, and brush, the maximum volume of timber (984 ft^3/acre) was used as the average volume per acre of all woody material.

The moisture content of the fuel material is an important aspect of emission calculations when open burning is used. The moisture content can be expected to range from 28 to 53 percent, depending on drying methods. Based upon available weight to density data (Institute of Forest Products, p. 95) for the most common tree species (spruce) in the impoundment area (FERC 1984, p. J-27) the following tonnage of material per acre is expected:

Moisture Content (%)	Weight of Material lb/ft^3	Weight of Material tons/acre
28	32.1	15.8
53	49.2	24.2

Emission estimates from large area sources such as forest fires are calculated from (EPA 1975, p. 11.1-3):

$$E_i = P_i \ L \ A$$

where

E_i = emission estimate for pollutant i (lbs)
P_i = yield for pollutant i (lb of pollutant/ton of fuel)
L = fuel consumed (tons/acre)
A = area cleared (acres)

Because emissions are highly variable, a range of emission factors reported in the literature has been utilized for this estimate (EPA 1978). For these calculations minimum moisture content is combined with the minimum emission factors and maximum moisture content is combined with the maximum emission factors.

Anticipated major constituent emission ranges calculated by the formula presented above are presented in Table 1 for the Watana impoundment area and in Table 2 for the Devil Canyon impoundment area. Sulfur emissions from forest fuels are low in comparison with other carbonaceous fuels, and are considered negligible (EPA 1978). Therefore, sulfur oxide emissions have not been included in the tables.

Combustion products from open burning are emitted into the atmosphere and are transported in a downwind direction. Meteorological parameters determine to what height the plume will rise and what the plume's dimension will be at downwind points. The characteristics which quantitatively describe plume composition, size, and behavior are determined from a number of interrelated factors including type and quantity of fuel, burning phase, meteorological condition, land slope, and the type of burning.

To date air quality impacts associated with burning of material cleared from the impoundment area have not been quantitatively determined. However, it may be stated that such burning of cleared material would not significantly impact local air quality, for the following reasons:

- Each burn event would be short-term in nature.
- The impoundment area would be cleared in sections over a period of years.

TABLE 1

RANGE OF EMISSIONS FOR COMBUSTION OF WOODY MATERIAL

IN WATANA IMPOUNDMENT AREA (31,100 ACRES)

	EMISSION			
	LOW MOISTURE (28%)		HIGH MOISTURE (53%)	
Effluent	Low Emission Factor (lb/ton)	Total Emission (tons)	High Emission Factor (lb/ton)	Total Emission (tons)
Carbon Dioxide (CO_2)	2,000	485,803	3,500	1,302,136
Water (H_2O)	500	121,451	1,500	558,058
Carbon Monoxide (CO)	20	4,858	500	186,019
Particulates (TSP)	17	4,129	67	24,927
Hydrocarbons (HC)	10	2,429	40	14,882
Nitrogen Oxides (NO_x)	2	486	6	2,232

TABLE 2

RANGE OF EMISSIONS FOR COMBUSTION OF WOODY MATERIAL

IN DEVIL CANYON IMPOUNDMENT AREA (5,870 ACRES)

	EMISSION			
	LOW MOISTURE (28%)		HIGH MOISTURE (53%)	
Effluent	Low Emission Factor (lb/ton)	Total Emission (tons)	High Emission Factor (lb/ton)	Total Emission (tons)
Carbon Dioxide (CO_2)	2,000	92,082	3,500	161,144
Water (H_2O)	500	23,021	1,500	69,062
Carbon Monoxide (CO)	20	921	500	23,021
Particulates (TSP)	17	783	67	3,085
Hydrocarbons (HC)	10	460	40	1,842
Nitrogen Oxides (NO_x)	2	92	6	276

- High temperatures associated with open burning (1000-2000 degrees F; EPA 1978) insure that the plume is carried to a high altitude. This would minimize ground level impacts.

- Prudent choice of burning techniques and days with favorable meteorological conditions will also minimize ground level impacts.

If open burning is to be utilized in clearing the impoundment areas of woody material, the results presented here, refined by better estimates of the total fuel content of the vegetation material, may be used to estimate total air emissions. It should be reiterated that the total area of the impoundment would not be cleared nor the woody material burned at one time. Clearing techniques, clearing schedules and other detailed site-specific considerations would be developed in consultation with the appropriate regulatory agencies during the preparation of a burn plan and the accompanying Alaska Department of Environmental Conservation permitting process. This will ensure that all environmental regulations are met.

REFERENCES

EPA. 1978. Impact of Forestry Burning upon Air Quality. U.S. Environmental Protection Agency Region 10, EPA 910/9-78-052. October 1978.

EPA. 1975. Compilation of Air Pollutant Emission Factors. AP-42.

FERC. 1984. Susitna Hydroelectric Project, Draft Enviromental Impact Statement. Office of Electric Power Regulation, Federal Energy Regulatory Commission. May 1984.

Institute of Forest Products. Conversion Factors for the Pacific Northwest Forest Industry. College of Forest Resources, University of Washington, Seattle, Washington.

USFS. 1985. Personal communication of Fred Larson, USFS, to Chuck Elliott, Harza-Ebasco Joint Venture. March 8, 1985.

Item 3a: "Fugitive dust emissions discussed on p. 5-11 and 5-13."

Response:

1. Attached are four pages of calculations that were referred to in Section 5.2.3.2 Power Plant Fugitive Dust, pages 5-11 and 5-13 of the text.

2. Attached are three pages of calculations that were referred to in Section 5.2.3.3. Lignite Creek Mine Fugitive Dust, page 5-13 of the text.

3.a.1.

Power Plant Fugitive Dust Calculations

610541

J. Wilder
8/10/84
1/4

Worst Case Coal Power Plant Fugitive Dust

Basis = 2- 200 MW plants
135 ton/hr feed rate x 2 = 270 ton/hr coal
Coal Storage Pile = 750,000 ft^2 = 17.2 acres
Nominal Truck Traffic = 50 VMT/day
May wind speed = 8 mph @ Talkeetna (Based on LCD)
Emission Factors: EPA Region XIII for Surface Mining

1. Coal Pile Emissions

EF = 1.6 u lbs/acre-hr
u = mps wind speed = 3.58 mps
E = (1.6)(3.58 mps) = 5.72 lbs dust/acre/hr
Pile area = 17.2 acres
Uncontrolled dust = $5.72 \frac{\text{lbs}}{\text{acr-hr}} \times 17.2 \text{ acres} \times 24 \frac{\text{hrs}}{\text{day}}$

= 2,360 lbs/day
Assumed dust control by Conerex = 75%
Controlled dust = $25\% \times 2{,}360 \frac{\text{lbs}}{\text{day}}$ = 590 lbs/day

2. Coal Loading to & From Silos

EF = 0.0002 lbs/ton.
E = 0.0002 lb/T x 270 ton/hr = 0.054 lbs/hr = 1.2 lbs/day

3. Coal Conveying

Controlled EF = 0.002 lbs/Ton

Controlled E = 0.002 lb/Ton x 270 $\frac{Ton}{hr}$ x 24 $\frac{hr}{day}$ = 120 $\frac{lbs}{day}$

4. Coal Dumping onto Stockpile

EF = 0.023 lbs/Ton (uncontrolled)

Uncontrolled E = 0.023 $\frac{lbs}{Ton}$ x 270 Ton/day = 149 lbs/day

Control Eff'cy (Telescoping Chute) = 75%

Controlled E = 0.25 x 149 lbs/day = 37.3 lbs/day

5. Haul Road Emissions

$EF = (0.6)(.81S)(V/30)^2(N/4)$ lbs/VMT

S = silt content = 15%

V = 25 mph

N = 6 wheels

$EF = (0.6)(0.81)(15\%)(25/30)^2(6/4) = 7.58$ lbs/VMT

E = 7.58 $\frac{lb}{VMT}$ x 50 $\frac{VMT}{day}$ = 379 lbs/day

Assume watering @ 50%

Controlled E = 190 lbs/day

6. Summary of Worst Day Emissions

Coal Loading to Stockpile	37.3 lb/day
Coal Conveying	120 lb/day
Coal Loading to Silo	1.2 lb/day
Coal Stockpile	590 lbs/day
Vehicle Dust	190 lb/day
Total Fugitive Dust (Worst day)	938 lb/day for worst case 24-hr
Average Annual Natural Mitigations	49%
Annual Average Emissions with Natural Mitigations (See Attached Sheets for determination of natural mitigation efficiency)	478 lb/day (2.51 g/sec)

Natural Mitigation

Assume the following mitigations:

- 50% mitigation from November - April (Snowcover) on days with no precip; and
- 100% mitigation on any days with > 0.01 inches precip

Use Anchorage data (Local Climatological Data Summary, NOAA)

Nov - April ⇒ (Snow Cover)
Days with > 0.01 precip = 49 days
Days w/out 0.01 precip = 182 - 49 = 133 days

May - Oct ⇒ (No Snow Cover)
Days w/ > 0.01 precip = 64 days
Days without precip = 182 - 64 = 116 days

So there are:
133 days w/ 50% mitg (36% of the time)
113 days with 100% mitigation (31% of the time)
119 days w/ no mitigation (33% of the time)

Total penetration = 0.33(1.00) + 0.31(0) + 0.36(0.50)
= 0.51 (51%)

So overall annual natural mitigations = 49%

3.a.2.

Mine Fugitive Dust Calculations

610541

JW
8/14/
1/3

Lignite Creek Coal Mine Fugitive Dust

Mining Rate = 13,600 tons of coal /day
Overburden Rate = 54,000 tons of overburden per day
Emission Factors = AP-42, Table 8.24-4

1. Drilling ⇒ Assume 10 holes/day = 3,650 holes/yr
90% mitigation by baghouse

E = 10 holes/day 1.3 lbs/hole x (1-0.90) = 13 lbs/day

2. Overburden Removal + Replacement — Assume 2 x 54,000 = 108,000 tons/day
0% mitigation daily
49% Annual mitigation

Daily E = 108,000 tons/day x 0.012 lbs/Ton = 1,296 lbs/day
Annual E = 1,296 lbs/day x 0.51 = 660 lbs/day

3. Truck Loading + Unloading — Assume 13,600 x 2 = 28,000 tons coal/day
0% mitigation daily
0% annual mitigation

28,000 ton/day x $\left(\frac{.037 + .027}{2}\right)$ lbs/Ton = 896 lbs/day

4. Wind Erosion

Assume 100 acres exposed area
25% daily mitigation
49% annual mitigation

Daily E = 100 acres × 0.38 $\frac{\text{Tons}}{\text{A-yr}}$ × (0.75) = 28.5 tons/yr = 156 lbs/day

Annual E = 100 ac × 0.38 $\frac{\text{T}}{\text{A-y}}$ × (0.51) = 19.4 Ton/yr = 106 lbs/day

5. Haul Trucks

Quartz Hill EF: 1.22 lbs/VMT, mitigated
Assume: 164 ton trucks, 2 miles/trip, 13,605 tons/day

13,600 tons coal/day × $\frac{\text{1 trip}}{\text{164 tons}}$ × $\frac{\text{2 miles}}{\text{trip}}$ × 1.22 $\frac{\text{lbs}}{\text{VMT}}$ = 202 $\frac{\text{lbs}}{\text{day}}$

Annual E ⇒ Use 75% mitigation; 202 × 50/75 = 135 lbs/day

Summary of Controlled Mine Emissions, lbs/day

	Maximum Daily	Annual Average
Overburden Removal	1,296	660
Coal Removal	162	82
Truck Loading + Unloading	896	716
Coal Blending	457	228
Haul Roads	202	135
Wind Erosion	156	106
Train Loading	190	143
	3,359 lbs/day	2,067 lbs/day

Item 3b: "Simplified VALLEY screening calculations from p. 5-14 for Willow and Nenana."

Response:

1. Nenana Power Plant SO_2 Impacts were calculated as follows:

   - Hypothetical plant site from Figure 4.1 of Volume 5.
   - Terrain elevations from Figure 4.1 of Volume 5.
   - SO_2 emission data from the COMPLEX computer output (see reponse to Item 3c).
   - Assumed wind rose from Table 5.5 of Volume 5.
   - Annual average SO_2 concentrations shown in Figure 5.1 are calculated by multiplying the calculated 1-hr concentrations in the computer output times the frequency of occurrence of wind direction (Table 5.5).
   - Twenty-four hour SO_2 impacts were calculated using standard VALLEY/F/2.5 hand calculation from the EPA 1977 reference in Volume 5, plus SO_2 emission data from COMPLEX computer output.

2. Willow Power Plant SO_2 Impacts were calculated as follows:

   - Hypothetical plant site and local terrain elevations from Figure 4.2 of Volume 5.
   - SO_2 emission data from COMPLEX computer output (see response to Item 3c).

Item 3b (continued)

- Assumed wind rose from Table 5.6 of Volume 5.

- Annual average SO_2 isopleths shown in Figure 5.2 were calculated by mutliplying the 1-hr values in the computer output times the frequency of wind direction occurrence (Table 5.6).

- Twenty-four hour SO_2 impacts were calculated using the standard VALLEY/F/2.5 hand calculation from the EPA 1977 reference from Volume 5, plus SO_2 emission data from COMPLEX computer output.

Item 3c: "COMPLEX I model predictions for Nenana and Willow plants (p. 5-14)."

Response:

1. Attached is a copy of the COMPLEX I computer runs for annual SO_2 concentrations for the Nenana power plant referred to in Section 5.2.3.4 Modeling Approach for Stack Emissions, page 5-14 of the text.

2. Attached is a copy of the COMPLEX I computer runs for annual SO_2 concentrations for the Willow power plant referred to in Section 5.2.3.4 Modeling Approach for Stack Emissions, page 5-14 of the text.

3.c.1.

COMPLEX Computer Runs for

Annual SO_2 Impacts at Nenana Power Plant

610541

COMPLEX I - VERSION 80353

Susitna DEIS Comments
Nenana Site Three 200 MW Coal Fired Plants
Worst Case Impacts for SO2 Using Worst Case Coal

COMPLEXI (VERSION 81052)
AN AIR QUALITY DISPERSION MODEL IN
SECTION 2. NON-GUIDELINE MODELS.
IN UNAMAP (VERSION 5) DEC 82
SOURCE: FILE 16 ON UNAMAP MAGNETIC TAPE FROM NTIS.

GENERAL INPUT INFORMATION

THIS RUN OF COMPLEX I -VERSION 80353 IS FOR THE POLLUTANT SO2 FOR 16 1-HOUR PERIODS.
CONCENTRATION ESTIMATES BEGIN ON HOUR- 1,JULIAN DAY- 1, YEAR-1984.
A FACTOR OF 1.0000000 HASBEEN SPECIFIED TO CONVERT USER LENGTH UNITS TO KILOMETERS.
0 SIGNIFICANT SOURCES ARE TO BE CONSIDERED.
THIS RUN WILL NOT CONSIDER ANY POLLUTANT LOSS.
A FACTOR OF 1.0000000 HAS BEEN SPECIFIED TO CONVERT USER HEIGHT UNITS TO METERS.

OPTION	OPTION LIST	OPTION SPECIFICATION : 0= IGNORE OPTION 1= USE OPTION
	TECHNICAL OPTIONS	
1	TERRAIN ADJUSTMENTS	1
2	DO NOT INCLUDE STACK DOWNWASH CALCULATIONS	1
3	DO NOT INCLUDE GRADUAL PLUME RISE CALCULATIONS	1
4	CALCULATE INITIAL PLUME SIZE	0
	INPUT OPTIONS	
5	READ MET DATA FROM CARDS	1
6	READ HOURLY EMISSIONS	0
7	SPECIFY SIGNIFICANT SOURCES	0
8	READ RADIAL DISTANCES TO GENERATE RECEPTORS	0
	PRINTED OUTPUT OPTIONS	
9	DELETE EMISSIONS WITHHEIGHT TABLE	1
10	DELETE MET DATA SUMMARY FOR AVG PERIOD	1
11	DELETE HOURLY CONTRIBUTIONS	1
12	DELETE MET DATA ON HOURLY CONTRIBUTIONS	1
13	DELETE FINAL PLUME RISE CALC ON HRLY CONTRIBUTIONS	1
14	DELETE HOURLY SUMMARY	0
15	DELETE MET DATA ON HRLY SUMMARY	1
16	DELETE FINAL PLUME RISE CALC ON HRLY SUMMARY	1
17	DELETE AVG-PERIOD CONTRIBUTIONS	1
18	DELETE AVERAGING PERIOD SUMMARY	1
19	DELETE AVG CONCENTRATIONS AND HI-STABLES	1
	OTHER CONTROL AND OUTPUT OPTIONS	
20	RUN IS PART OF A SEGMENTED RUN	0
21	WRITE PARTIAL CONC TO DISK OR TAPE	0
22	WRITE HOURLY CONC TO DISK OR TAPE	0
23	WRITE AVG-PERIOD CONC TO DISKOR TAPE	0
24	PUNCH AVG-PERIOD CONC ONTO CARDS	0
25	COMPLEX TERRAIN OPTION	3

ANEMOMETER HEIGHT IS: 10.00
EXPONENTS FOR POWER- LAW WIND INCREASE WITH HEIGHT ARE:0.07,0.07,0.10,0.15,0.35,0.55
TERRAIN ADJUSTMENTS ARE: 1.000,1.000,1.000,1.000,0.000,0.000 ZMIN IS 10.0

POINT SOURCE INFORMATION

SOURCE	EAST COORD (USER UNITS)	NORTH COORD (USER UNITS)	SO2(G/SEC) EMISSIONS	PART(G/SEC) EMISSIONS	STACK HT(M)	STACK TEMP(K)	STACK DIAM(M)	STACK VEL(M/SEC)	POTEN. IMPACT (MICRO G/M**3)	EFF HT(M)	GRD-LVL ELEV USER HT UNITS	BUOY FLUX F M**4/S**3
1 3 X 200 MW	0.00	0.00	86.00	0.00	134.0	361.0	5.5	20.1	22.82	513.11	106.00	279.76

ADDITIONAL INFORMATION ON SOURCES.

EMISSION INFORMATION FOR 1 (NPT) POINT SOURCES HAS BEEN INPUT
0 SIGNIFICANT POINT SOURCES(NSIGP) ARE TO BE USED FOR THIS RUN
THE ORDER OF SIGNIFICANCE(IMPS) FOR 25 OR LESS POINT SOURCES USED IN THIS RUN AS LISTED BY POINTSOURCE NUMBER:

RECEPTOR INFORMATION

RECEPTOR	IDENTIFICATION	EAST COORD (USER UNITS)	NORTH COORD (USER UNITS)	RECEPTOR HT ABV LOCAL GRD LVL (METERS)	RECEPTOR GROUND LEVEL ELEVATION (USER HT UNITS)
1		0.383	0.924	0.0	106.7
2		0.765	1.848	0.0	106.7
3		1.148	2.772	0.0	106.7
4		1.531	3.695	0.0	106.7
5		1.913	4.619	0.0	106.7
6		2.296	5.543	0.0	106.7
7		2.679	6.467	0.0	106.7
8		3.062	7.391	0.0	106.7
9		3.444	8.315	0.0	106.7
10		3.827	9.239	0.0	106.7
11		5.740	13.858	0.0	106.7
12		7.764	18.478	0.0	106.7
13		9.567	23.097	0.0	106.7
14		11.481	27.716	0.0	106.7
15		15.307	36.955	0.0	106.7
16		19.134	46.194	0.0	106.7
17		0.707	0.707	0.0	106.7
18		1.414	1.414	0.0	106.7
19		2.121	2.121	0.0	106.7
20		2.828	2.828	0.0	106.7
21		3.536	3.536	0.0	106.7
22		4.243	4.243	0.0	106.7
23		4.950	4.950	0.0	182.9
24		5.657	5.657	0.0	213.4
25**		6.364	6.364	0.0	396.2
26**		7.071	7.071	0.0	487.7
27**		10.607	10.607	0.0	426.7
28**		14.142	14.142	0.0	426.7
29**		17.678	17.678	0.0	426.7
30**		21.213	21.213	0.0	426.7
31**		28.284	28.284	0.0	426.7
32**		35.355	35.355	0.0	426.7
33		0.924	0.383	0.0	106.7
34		1.848	0.765	0.0	106.7
35		2.772	1.148	0.0	106.7
36		3.695	1.531	0.0	106.7
37		4.619	1.913	0.0	106.7
38		5.543	2.296	0.0	106.7
39		6.467	2.679	0.0	106.7

40	7.391	3.062	0.0	106.7
41	8.315	3.444	0.0	106.7
42	9.239	3.827	0.0	106.7
43	13.858	5.740	0.0	106.7
44	18.478	7.654	0.0	106.7
45	23.097	9.567	0.0	106.7
46	27.716	11.481	0.0	106.7
47	36.955	15.307	0.0	106.7
48	46.194	19.134	0.0	106.7
49	1.000	0.000	0.0	106.7
50	2.000	0.000	0.0	106.7
51	3.000	0.000	0.0	106.7
52	4.000	0.000	0.0	106.7
53	5.000	0.000	0.0	106.7
54	6.000	0.000	0.0	106.7
55	7.000	0.000	0.0	106.7
56	8.000	0.000	0.0	106.7
57	9.000	0.000	0.0	106.7
58	10.000	0.000	0.0	106.7
59	15.000	0.000	0.0	106.7
60	20.000	0.000	0.0	106.7
61	25.000	0.000	0.0	106.7
62	30.000	0.000	0.0	106.7
63	40.000	0.000	0.0	106.7
64	50.000	0.000	0.0	106.7
65	0.924	-0.383	0.0	106.7
66	1.848	-0.765	0.0	106.7
67	2.772	-1.148	0.0	106.7
68	3.695	-1.531	0.0	106.7
69	4.619	-1.913	0.0	106.7
70	5.543	-2.296	0.0	106.7
71	6.467	-2.679	0.0	106.7
72	7.391	-3.061	0.0	106.7
73	8.315	-3.444	0.0	106.7
74	9.239	-3.827	0.0	106.7
75	13.858	-5.740	0.0	106.7
76	18.478	-7.654	0.0	106.7
77	23.097	-9.567	0.0	106.7
78	27.716	-11.481	0.0	106.7
79	36.955	-15.307	0.0	106.7
80	46.194	-19.134	0.0	106.7
81	0.707	-0.707	0.0	106.7
82	1.414	-1.414	0.0	106.7
83	2.121	-2.121	0.0	106.7
84	2.829	-2.828	0.0	106.7
85	3.536	-3.536	0.0	106.7
86	4.243	-4.243	0.0	106.7
87	4.950	-4.950	0.0	106.7
88	5.657	-5.657	0.0	106.7
89	6.364	-6.364	0.0	106.7
90	7.071	-7.071	0.0	106.7
91	10.607	-10.607	0.0	106.7
92	14.142	-14.142	0.0	106.7
93	17.678	-17.678	0.0	106.7
94	21.213	-21.213	0.0	106.7
95	28.284	-28.284	0.0	106.7
96	35.355	-35.355	0.0	106.7
97	0.383	0.924	0.0	106.7
98	0.765	-1.848	0.0	106.7
99	1.148	-2.772	0.0	106.7
100	1.531	-3.695	0.0	106.7

3

101	1.913	-4.619	0.0	106.7
102	2.296	-5.543	0.0	106.7
103	2.679	-6.467	0.0	106.7
104	3.062	-7.391	0.0	106.7
105	3.444	-8.315	0.0	106.7
106	3.827	-9.239	0.0	106.7
107	5.740	-13.858	0.0	106.7
108	7.764	-18.478	0.0	106.7
109	9.567	-23.097	0.0	106.7
110	11.481	-27.716	0.0	106.7
111	15.307	-36.955	0.0	106.7
112	19.134	-46.194	0.0	106.7
113	0.000	-1.000	0.0	106.7
114	0.000	-2.000	0.0	106.7
115	0.000	-3.000	0.0	106.7
116	0.000	-4.000	0.0	106.7
117	0.000	-5.000	0.0	106.7
118	0.000	-6.000	0.0	106.7
119	0.000	-7.000	0.0	106.7
120	0.000	-8.000	0.0	106.7
121	0.000	-9.000	0.0	106.7
122	0.000	-10.000	0.0	106.7
123	0.000	-15.000	0.0	106.7
124	0.000	-20.000	0.0	106.7
125	0.000	-25.000	0.0	106.7
126	0.000	-30.000	0.0	106.7
127	0.000	-40.000	0.0	106.7
128	0.000	-50.000	0.0	106.7

* ONE ASTERISK INDICATES THAT THE ASSOCIATED RECEPTOR(S) HAVE A GROUND LEVEL ELEVATION LOWER THAN THE LOWEST SOURCE BASE ELEVATION.
CAUTION SHOULD BE USED IN INTERPRETING CONCENTRATIONS FOR THESE RECEPTORS.
** TWO ASTERISKS INDICATE THAT THE ASSOCIATED RECEPTOR(S) HAVE GROUND LEVEL ELEVATIONS ABOVE THE LOWEST STACK TOP.
CONSEQUENTLY NO CALCULATIONS WILL BE PERFORMED WITH THIS RECEPTOR.A SERIES OF ASTERISKS WILL INSTEAD APPEAR IN THE OUTPUT.

4

Susitna DEIS Comments
Nenana Site Three 200 MW Coal Fired Plants
Worst Case Impacts for SO2 Using Worst Case Coal

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 84/ 1 : HOUR 1

RECEPTOR NO.	NAME	EAST COORD	NORTH COORD	RECEPTOR HT ABV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1		0.38	0.92	0.0	106.7	0.0000	0.0000	16
2		0.77	1.85	0.0	106.7	0.0000	0.0000	17
3		1.15	2.77	0.0	106.7	0.0000	0.0000	18
4		1.53	3.70	0.0	106.7	0.0000	0.0000	19
5		1.91	4.62	0.0	106.7	0.0000	0.0000	20
6		2.30	5.54	0.0	106.7	0.0000	0.0000	21
7		2.68	6.47	0.0	106.7	0.0000	0.0000	22
8		3.06	7.39	0.0	106.7	0.0000	0.0000	23
9		3.44	8.31	0.0	106.7	0.0000	0.0000	24
10		3.83	9.24	0.0	106.7	0.0000	0.0000	25
11		5.74	13.86	0.0	106.7	0.0000	0.0000	26
12		7.76	18.48	0.0	106.7	0.0000	0.0000	27
13		9.57	23.10	0.0	106.7	0.0000	0.0000	28
14		11.48	27.72	0.0	106.7	0.0000	0.0000	29
15		15.31	36.96	0.0	106.7	0.0000	0.0000	30
16		19.13	46.19	0.0	106.7	0.0000	0.0000	31
17		0.71	0.71	0.0	106.7	0.0000	0.0000	32
18		1.41	1.41	0.0	106.7	0.0000	0.0000	33
19		2.12	2.12	0.0	106.7	0.0000	0.0000	34
20		2.83	2.83	0.0	106.7	0.0000	0.0000	35
21		3.54	3.54	0.0	106.7	0.0000	0.0000	36
22		4.24	4.24	0.0	106.7	0.0000	0.0000	37
23		4.95	4.95	0.0	182.9	0.0000	0.0000	38
24		5.66	5.66	0.0	213.4	0.0000	0.0000	39
25**		6.36	6.36	0.0	396.2	0.0000	0.0000	40
26**		7.07	7.07	0.0	487.7	0.0000	0.0000	41
27**		10.61	10.61	0.0	426.7	0.0000	0.0000	42
28**		14.14	14.14	0.0	426.7	0.0000	0.0000	43
29**		17.68	17.68	0.0	426.7	0.0000	0.0000	44
30**		21.21	21.21	0.0	426.7	0.0000	0.0000	45
31**		28.28	28.28	0.0	426.7	0.0000	0.0000	46
32**		35.36	35.36	0.0	426.7	0.0000	0.0000	47
33		0.92	0.38	0.0	106.7	0.0000	0.0000	48
34		1.85	0.77	0.0	106.7	0.0000	0.0000	49
35		2.77	1.15	0.0	106.7	0.0000	0.0000	50
36		3.70	1.53	0.0	106.7	0.0000	0.0000	51
37		4.62	1.91	0.0	106.7	0.0000	0.0000	52
38		5.54	2.30	0.0	106.7	0.0000	0.0000	53
39		6.47	2.68	0.0	106.7	0.0000	0.0000	54
40		7.39	3.06	0.0	106.7	0.0000	0.0000	55
41		8.31	3.44	0.0	106.7	0.0000	0.0000	56
42		9.24	3.83	0.0	106.7	0.0000	0.0000	57
43		13.86	5.74	0.0	106.7	0.0000	0.0000	58
44		18.48	7.65	0.0	106.7	0.0000	0.0000	59
45		23.10	9.57	0.0	106.7	0.0000	0.0000	60
46		27.72	11.48	0.0	106.7	0.0000	0.0000	61
47		36.96	15.31	0.0	106.7	0.0000	0.0000	62
48		46.19	19.13	0.0	106.7	0.0000	0.0000	63
49		1.00	0.00	0.0	106.7	0.0000	0.0000	64

50	2.00	0.00	0.0	106.7	0.0000	0.0000	65
51	3.00	0.00	0.0	106.7	0.0000	0.0000	66
52	4.00	0.00	0.0	106.7	0.0000	0.0000	67
53	5.00	0.00	0.0	106.7	0.0000	0.0000	68
54	6.00	0.00	0.0	106.7	0.0000	0.0000	69
55	7.00	0.00	0.0	106.7	0.0000	0.0000	70
56	8.00	0.00	0.0	106.7	0.0000	0.0000	71
57	9.00	0.00	0.0	106.7	0.0000	0.0000	72
58	10.00	0.00	0.0	106.7	0.0000	0.0000	73
59	15.00	0.00	0.0	106.7	0.0000	0.0000	74
60	20.00	0.00	0.0	106.7	0.0000	0.0000	75
61	25.00	0.00	0.0	106.7	0.0000	0.0000	76
62	30.00	0.00	0.0	106.7	0.0000	0.0000	77
63	40.00	0.00	0.0	106.7	0.0000	0.0000	78
64	50.00	0.00	0.0	106.7	0.0000	0.0000	79
65	0.92	-0.38	0.0	106.7	0.0000	0.0000	80
66	1.85	-0.77	0.0	106.7	0.0000	0.0000	81
67	2.77	-1.15	0.0	106.7	0.0000	0.0000	82
68	3.70	-1.53	0.0	106.7	0.0000	0.0000	83
69	4.62	-1.91	0.0	106.7	0.0000	0.0000	84
70	5.54	-2.30	0.0	106.7	0.0000	0.0000	85
71	6.47	-2.68	0.0	106.7	0.0000	0.0000	86
72	7.39	-3.06	0.0	106.7	0.0000	0.0000	87
73	8.31	-3.44	0.0	106.7	0.0000	0.0000	88
74	9.24	-3.83	0.0	106.7	0.0000	0.0000	89
75	13.86	-5.74	0.0	106.7	0.0000	0.0000	90
76	18.48	-7.65	0.0	106.7	0.0000	0.0000	91
77	23.10	-9.57	0.0	106.7	0.0000	0.0000	92
78	27.72	-11.48	0.0	106.7	0.0000	0.0000	93
79	36.96	-15.31	0.0	106.7	0.0000	0.0000	94
80	46.19	-19.13	0.0	106.7	0.0000	0.0000	95
81	0.71	-0.71	0.0	106.7	0.0000	0.0000	96
82	1.41	-1.41	0.0	106.7	0.0000	0.0000	97
83	2.12	-2.12	0.0	106.7	0.0000	0.0000	98
84	2.83	-2.83	0.0	106.7	0.0000	0.0000	99
85	3.54	-3.54	0.0	106.7	0.0000	0.0000	100
86	4.24	-4.24	0.0	106.7	0.0000	0.0000	101
87	4.95	-4.95	0.0	106.7	0.0000	0.0000	102
88	5.66	-5.66	0.0	106.7	0.0000	0.0000	103
89	6.36	-6.36	0.0	106.7	0.0000	0.0000	104
90	7.07	-7.07	0.0	106.7	0.0000	0.0000	105
91	10.61	-10.61	0.0	106.7	0.0000	0.0000	106
92	14.14	-14.14	0.0	106.7	0.0000	0.0000	107
93	17.68	-17.68	0.0	106.7	0.0000	0.0000	108
94	21.21	-21.21	0.0	106.7	0.0000	0.0000	109
95	28.28	-28.28	0.0	106.7	0.0000	0.0000	110
96	35.36	-35.36	0.0	106.7	0.0000	0.0000	111
97	0.38	-0.92	0.0	106.7	0.0000	0.0000	112
98	0.77	-1.85	0.0	106.7	0.0000	0.0000	113
99	1.15	-2.77	0.0	106.7	0.0000	0.0000	114
100	1.53	-3.70	0.0	106.7	0.0000	0.0000	115
101	1.91	-4.62	0.0	106.7	0.0000	0.0000	116
102	2.30	-5.54	0.0	106.7	0.0000	0.0000	117
103	2.68	-6.47	0.0	106.7	0.0000	0.0000	118
104	3.06	-7.39	0.0	106.7	0.0000	0.0000	119
105	3.44	-8.31	0.0	106.7	0.0000	0.0000	120
106	3.83	-9.24	0.0	106.7	0.0000	0.0000	121
107	5.74	-13.86	0.0	106.7	0.0000	0.0000	122
108	7.65	-18.48	0.0	106.7	0.0000	0.0000	123
109	9.57	-23.10	0.0	106.7	0.0000	0.0000	124
110	11.48	-27.72	0.0	106.7	0.0000	0.0000	125

111	15.31	-36.96	0.0	106.7	0.0000	0.0000	126
112	19.13	-46.19	0.0	106.7	0.0000	0.0000	127
113	0.00	-1.00	0.0	106.7	0.0000	0.0000	128
114	0.00	-2.00	0.0	106.7	0.0000	0.0000	15
115	0.00	-3.00	0.0	106.7	0.0000	0.0000	14
116	0.00	-4.00	0.0	106.7	0.0000	0.0000	13
117	0.00	-5.00	0.0	106.7	0.0000	0.0001	12
118	0.00	-6.00	0.0	106.7	0.0000	0.0011	11
119	0.00	-7.00	0.0	106.7	0.0000	0.0056	10
120	0.00	-8.00	0.0	106.7	0.0000	0.0180	9
121	0.00	-9.00	0.0	106.7	0.0000	0.0423	8
122	0.00	-10.00	0.0	106.7	0.0000	0.0808	7
123	0.00	-15.00	0.0	106.7	0.0000	0.3892	6
124	0.00	-20.00	0.0	106.7	0.0000	0.7112	5
125	0.00	-25.00	0.0	106.7	0.0000	0.9237	4
126	0.00	-30.00	0.0	106.7	0.0000	1.0319	2
127	0.00	-40.00	0.0	106.7	0.0000	1.0385	1
128	0.00	-50.00	0.0	106.7	0.0000	0.9642	3

Susitna DEIS Comments
Nenana Site Three 200 MW Coal Fired Plants
Worst Case Impacts for SO2 Using Worst Case Coal

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 84/ 1 : HOUR 2

RECEPTOR NO.	NAME	EAST COORD	NORTH COORD	RECEPTOR HT ABV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1		0.38	0.92	0.0	106.7	0.0000	0.0000	1
2		0.77	1.85	0.0	106.7	0.0000	0.0000	2
3		1.15	2.77	0.0	106.7	0.0000	0.0000	3
4		1.53	3.70	0.0	106.7	0.0000	0.0000	4
5		1.91	4.62	0.0	106.7	0.0000	0.0000	5
6		2.30	5.54	0.0	106.7	0.0000	0.0000	6
7		2.68	6.47	0.0	106.7	0.0000	0.0000	7
8		3.06	7.39	0.0	106.7	0.0000	0.0000	8
9		3.44	8.31	0.0	106.7	0.0000	0.0000	9
10		3.83	9.24	0.0	106.7	0.0000	0.0000	10
11		5.74	13.86	0.0	106.7	0.0000	0.0000	11
12		7.76	18.48	0.0	106.7	0.0000	0.0000	12
13		9.57	23.10	0.0	106.7	0.0000	0.0000	13
14		11.48	27.72	0.0	106.7	0.0000	0.0000	14
15		15.31	36.96	0.0	106.7	0.0000	0.0000	15
16		19.13	46.19	0.0	106.7	0.0000	0.0000	16
17		0.71	0.71	0.0	106.7	0.0000	0.0000	17
18		1.41	1.41	0.0	106.7	0.0000	0.0000	18
19		2.12	2.12	0.0	106.7	0.0000	0.0000	19
20		2.83	2.83	0.0	106.7	0.0000	0.0000	20
21		3.54	3.54	0.0	106.7	0.0000	0.0000	21
22		4.24	4.24	0.0	106.7	0.0000	0.0000	22
23		4.95	4.95	0.0	182.9	0.0000	0.0000	23
24		5.66	5.66	0.0	213.4	0.0000	0.0000	24
25**		6.36	6.36	0.0	396.2	0.0000	0.0000	25
26**		7.07	7.07	0.0	487.7	0.0000	0.0000	26
27**		10.61	10.61	0.0	426.7	0.0000	0.0000	27
28**		14.14	14.14	0.0	426.7	0.0000	0.0000	28
29**		17.68	17.68	0.0	426.7	0.0000	0.0000	29
30**		21.21	21.21	0.0	426.7	0.0000	0.0000	30
31**		28.28	28.28	0.0	426.7	0.0000	0.0000	31
32**		35.36	35.36	0.0	426.7	0.0000	0.0000	32
33		0.92	0.38	0.0	106.7	0.0000	0.0000	33
34		1.85	0.77	0.0	106.7	0.0000	0.0000	34
35		2.77	1.15	0.0	106.7	0.0000	0.0000	35
36		3.70	1.53	0.0	106.7	0.0000	0.0000	36
37		4.62	1.91	0.0	106.7	0.0000	0.0000	37
38		5.54	2.30	0.0	106.7	0.0000	0.0000	38
39		6.47	2.68	0.0	106.7	0.0000	0.0000	39
40		7.39	3.06	0.0	106.7	0.0000	0.0000	40
41		8.31	3.44	0.0	106.7	0.0000	0.0000	41
42		9.24	3.83	0.0	106.7	0.0000	0.0000	42
43		13.86	5.74	0.0	106.7	0.0000	0.0000	43
44		18.48	7.65	0.0	106.7	0.0000	0.0000	44
45		23.10	9.57	0.0	106.7	0.0000	0.0000	45
46		27.72	11.48	0.0	106.7	0.0000	0.0000	46
47		36.96	15.31	0.0	106.7	0.0000	0.0000	47
48		46.19	19.13	0.0	106.7	0.0000	0.0000	48
49		1.0[illegible]	0.00	0.0	106.7	0.0000	0.0000	49

8

50	2.00	0.00	0.0	106.7	0.0000	0.0000	50
51	3.00	0.00	0.0	106.7	0.0000	0.0000	51
52	4.00	0.00	0.0	106.7	0.0000	0.0000	52
53	5.00	0.00	0.0	106.7	0.0000	0.0000	53
54	6.00	0.00	0.0	106.7	0.0000	0.0000	54
55	7.00	0.00	0.0	106.7	0.0000	0.0000	55
56	8.00	0.00	0.0	106.7	0.0000	0.0000	56
57	9.00	0.00	0.0	106.7	0.0000	0.0000	57
58	10.00	0.00	0.0	106.7	0.0000	0.0000	58
59	15.00	0.00	0.0	106.7	0.0000	0.0000	59
60	20.00	0.00	0.0	106.7	0.0000	0.0000	60
61	25.00	0.00	0.0	106.7	0.0000	0.0000	61
62	30.00	0.00	0.0	106.7	0.0000	0.0000	62
63	40.00	0.00	0.0	106.7	0.0000	0.0000	63
64	50.00	0.00	0.0	106.7	0.0000	0.0000	64
65	0.92	-0.38	0.0	106.7	0.0000	0.0000	65
66	1.85	-0.77	0.0	106.7	0.0000	0.0000	66
67	2.77	-1.15	0.0	106.7	0.0000	0.0000	67
68	3.70	-1.53	0.0	106.7	0.0000	0.0000	68
69	4.62	-1.91	0.0	106.7	0.0000	0.0000	69
70	5.54	-2.30	0.0	106.7	0.0000	0.0000	70
71	6.47	-2.68	0.0	106.7	0.0000	0.0000	71
72	7.39	-3.06	0.0	106.7	0.0000	0.0000	72
73	8.31	-3.44	0.0	106.7	0.0000	0.0000	73
74	9.24	-3.83	0.0	106.7	0.0000	0.0000	74
75	13.86	-5.74	0.0	106.7	0.0000	0.0000	75
76	18.48	-7.65	0.0	106.7	0.0000	0.0000	76
77	23.10	-9.57	0.0	106.7	0.0000	0.0000	77
78	27.72	-11.48	0.0	106.7	0.0000	0.0000	78
79	36.96	-15.31	0.0	106.7	0.0000	0.0000	79
80	46.19	-19.13	0.0	106.7	0.0000	0.0000	80
81	0.71	-0.71	0.0	106.7	0.0000	0.0000	81
82	1.41	-1.41	0.0	106.7	0.0000	0.0000	82
83	2.12	-2.12	0.0	106.7	0.0000	0.0000	83
84	2.83	-2.83	0.0	106.7	0.0000	0.0000	84
85	3.54	-3.54	0.0	106.7	0.0000	0.0000	85
86	4.24	-4.24	0.0	106.7	0.0000	0.0000	86
87	4.95	-4.95	0.0	106.7	0.0000	0.0000	87
88	5.66	-5.66	0.0	106.7	0.0000	0.0000	88
89	6.36	-6.36	0.0	106.7	0.0000	0.0000	89
90	7.07	-7.07	0.0	106.7	0.0000	0.0000	90
91	10.61	-10.61	0.0	106.7	0.0000	0.0000	91
92	14.14	-14.14	0.0	106.7	0.0000	0.0000	92
93	17.68	-17.68	0.0	106.7	0.0000	0.0000	93
94	21.21	-21.21	0.0	106.7	0.0000	0.0000	94
95	28.28	-28.28	0.0	106.7	0.0000	0.0000	95
96	35.36	-35.36	0.0	106.7	0.0000	0.0000	96
97	0.38	-0.92	0.0	106.7	0.0000	0.0000	97
98	0.77	-1.85	0.0	106.7	0.0000	0.0000	98
99	1.15	-2.77	0.0	106.7	0.0000	0.0000	99
100	1.53	-3.70	0.0	106.7	0.0000	0.0000	100
101	1.91	-4.62	0.0	106.7	0.0000	0.0000	101
102	2.30	-5.54	0.0	106.7	0.0000	0.0000	102
103	2.68	-6.47	0.0	106.7	0.0000	0.0000	103
104	3.06	-7.39	0.0	106.7	0.0000	0.0000	104
105	3.44	-8.31	0.0	106.7	0.0000	0.0000	105
106	3.83	-9.24	0.0	106.7	0.0000	0.0000	106
107	5.74	-13.86	0.0	106.7	0.0000	0.0000	107
108	7.76	-18.48	0.0	106.7	0.0000	0.0000	108
109	9.57	-23.10	0.0	106.7	0.0000	0.0000	109
110	11.48	-27.72	0.0	106.7	0.0000	0.0000	110

111	15.31	-36.96	0.0	106.7	0.0000	0.0000	111
112	19.13	-46.19	0.0	106.7	0.0000	0.0000	112
113	0.00	-1.00	0.0	106.7	0.0000	0.0000	113
114	0.00	-2.00	0.0	106.7	0.0000	0.0000	114
115	0.00	-3.00	0.0	106.7	0.0000	0.0000	115
116	0.00	-4.00	0.0	106.7	0.0000	0.0000	116
117	0.00	-5.00	0.0	106.7	0.0000	0.0000	117
118	0.00	-6.00	0.0	106.7	0.0000	0.0000	118
119	0.00	-7.00	0.0	106.7	0.0000	0.0000	119
120	0.00	-8.00	0.0	106.7	0.0000	0.0000	120
121	0.00	-9.00	0.0	106.7	0.0000	0.0000	121
122	0.00	-10.00	0.0	106.7	0.0000	0.0000	122
123	0.00	-15.00	0.0	106.7	0.0000	0.0000	123
124	0.00	-20.00	0.0	106.7	0.0000	0.0000	124
125	0.00	-25.00	0.0	106.7	0.0000	0.0000	125
126	0.00	-30.00	0.0	106.7	0.0000	0.0000	126
127	0.00	-40.00	0.0	106.7	0.0000	0.0000	127
128	0.00	-50.00	0.0	106.7	0.0000	0.0000	128

Susitna DEIS Comments
Nenana Site Three 200 MW Coal Fired Plants
Worst Case Impacts for SO2 Using Worst Case Coal

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 84/ 1 : HOUR 3

RECEPTOR NO.	NAME	EAST COORD	NORTH COORD	RECEPTOR HT ABV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1		0.38	0.92	0.0	106.7	0.0000	0.0000	1
2		0.77	1.85	0.0	106.7	0.0000	0.0000	2
3		1.15	2.77	0.0	106.7	0.0000	0.0000	3
4		1.53	3.70	0.0	106.7	0.0000	0.0000	4
5		1.91	4.62	0.0	106.7	0.0000	0.0000	5
6		2.30	5.54	0.0	106.7	0.0000	0.0000	6
7		2.68	6.47	0.0	106.7	0.0000	0.0000	7
8		3.06	7.39	0.0	106.7	0.0000	0.0000	8
9		3.44	8.31	0.0	106.7	0.0000	0.0000	9
10		3.83	9.24	0.0	106.7	0.0000	0.0000	10
11		5.74	13.86	0.0	106.7	0.0000	0.0000	11
12		7.76	18.48	0.0	106.7	0.0000	0.0000	12
13		9.57	23.10	0.0	106.7	0.0000	0.0000	13
14		11.48	27.72	0.0	106.7	0.0000	0.0000	14
15		15.31	36.96	0.0	106.7	0.0000	0.0000	15
16		19.13	46.19	0.0	106.7	0.0000	0.0000	16
17		0.71	0.71	0.0	106.7	0.0000	0.0000	17
18		1.41	1.41	0.0	106.7	0.0000	0.0000	18
19		2.12	2.12	0.0	106.7	0.0000	0.0000	19
20		2.83	2.83	0.0	106.7	0.0000	0.0000	20
21		3.54	3.54	0.0	106.7	0.0000	0.0000	21
22		4.24	4.24	0.0	106.7	0.0000	0.0000	22
23		4.95	4.95	0.0	182.9	0.0000	0.0000	23
24		5.66	5.66	0.0	213.4	0.0000	0.0000	24
25**		6.36	6.36	0.0	396.2	0.0000	0.0000	25
26**		7.07	7.07	0.0	487.7	0.0000	0.0000	26
27**		10.61	10.61	0.0	426.7	0.0000	0.0000	27
28**		14.14	14.14	0.0	426.7	0.0000	0.0000	28
29**		17.68	17.68	0.0	426.7	0.0000	0.0000	29
30**		21.21	21.21	0.0	426.7	0.0000	0.0000	30
31**		28.28	28.28	0.0	426.7	0.0000	0.0000	31
32**		35.36	35.36	0.0	426.7	0.0000	0.0000	32
33		0.92	0.38	0.0	106.7	0.0000	0.0000	33
34		1.85	0.77	0.0	106.7	0.0000	0.0000	34
35		2.77	1.15	0.0	106.7	0.0000	0.0000	35
36		3.70	1.53	0.0	106.7	0.0000	0.0000	36
37		4.62	1.91	0.0	106.7	0.0000	0.0000	37
38		5.54	2.30	0.0	106.7	0.0000	0.0000	38
39		6.47	2.68	0.0	106.7	0.0000	0.0000	39
40		7.39	3.06	0.0	106.7	0.0000	0.0000	40
41		8.31	3.44	0.0	106.7	0.0000	0.0000	41
42		9.24	3.83	0.0	106.7	0.0000	0.0000	42
43		13.86	5.74	0.0	106.7	0.0000	0.0000	43
44		18.48	7.65	0.0	106.7	0.0000	0.0000	44
45		23.10	9.57	0.0	106.7	0.0000	0.0000	45
46		27.72	11.48	0.0	106.7	0.0000	0.0000	46
47		36.96	15.31	0.0	106.7	0.0000	0.0000	47
48		46.19	19.13	0.0	106.7	0.0000	0.0000	48
49		1.00	0.00	0.0	106.7	0.0000	0.0000	49

50	2.00	0.00	0.0	106.7	0.0000	0.0000	50
51	3.00	0.00	0.0	106.7	0.0000	0.0000	51
52	4.00	0.00	0.0	106.7	0.0000	0.0000	52
53	5.00	0.00	0.0	106.7	0.0000	0.0000	53
54	6.00	0.00	0.0	106.7	0.0000	0.0000	54
55	7.00	0.00	0.0	106.7	0.0000	0.0000	55
56	8.00	0.00	0.0	106.7	0.0000	0.0000	56
57	9.00	0.00	0.0	106.7	0.0000	0.0000	57
58	10.00	0.00	0.0	106.7	0.0000	0.0000	58
59	15.00	0.00	0.0	106.7	0.0000	0.0000	59
60	20.00	0.00	0.0	106.7	0.0000	0.0000	60
61	25.00	0.00	0.0	106.7	0.0000	0.0000	61
62	30.00	0.00	0.0	106.7	0.0000	0.0000	62
63	40.00	0.00	0.0	106.7	0.0000	0.0000	63
64	50.00	0.00	0.0	106.7	0.0000	0.0000	64
65	0.92	-0.38	0.0	106.7	0.0000	0.0000	65
66	1.85	-0.77	0.0	106.7	0.0000	0.0000	66
67	2.77	-1.15	0.0	106.7	0.0000	0.0000	67
68	3.70	-1.53	0.0	106.7	0.0000	0.0000	68
69	4.62	-1.91	0.0	106.7	0.0000	0.0000	69
70	5.54	-2.30	0.0	106.7	0.0000	0.0000	70
71	6.47	-2.68	0.0	106.7	0.0000	0.0000	71
72	7.39	-3.06	0.0	106.7	0.0000	0.0000	72
73	8.31	-3.44	0.0	106.7	0.0000	0.0000	73
74	9.24	-3.83	0.0	106.7	0.0000	0.0000	74
75	13.86	-5.74	0.0	106.7	0.0000	0.0000	75
76	18.48	-7.65	0.0	106.7	0.0000	0.0000	76
77	23.10	-9.57	0.0	106.7	0.0000	0.0000	77
78	27.72	-11.48	0.0	106.7	0.0000	0.0000	78
79	36.96	-15.31	0.0	106.7	0.0000	0.0000	79
80	46.19	-19.13	0.0	106.7	0.0000	0.0000	80
81	0.71	-0.71	0.0	106.7	0.0000	0.0000	81
82	1.41	-1.41	0.0	106.7	0.0000	0.0000	82
83	2.12	-2.12	0.0	106.7	0.0000	0.0000	83
84	2.83	-2.83	0.0	106.7	0.0000	0.0000	84
85	3.54	-3.54	0.0	106.7	0.0000	0.0000	85
86	4.24	-4.24	0.0	106.7	0.0000	0.0000	86
87	4.95	-4.95	0.0	106.7	0.0000	0.0000	87
88	5.66	-5.66	0.0	106.7	0.0000	0.0000	88
89	6.36	-6.36	0.0	106.7	0.0000	0.0000	89
90	7.07	-7.07	0.0	106.7	0.0000	0.0000	90
91	10.61	-10.61	0.0	106.7	0.0000	0.0000	91
92	14.14	-14.14	0.0	106.7	0.0000	0.0000	92
93	17.68	-17.68	0.0	106.7	0.0000	0.0000	93
94	21.21	-21.21	0.0	106.7	0.0000	0.0000	94
95	28.28	-28.28	0.0	106.7	0.0000	0.0000	95
96	35.36	-35.36	0.0	106.7	0.0000	0.0000	96
97	0.38	-0.92	0.0	106.7	0.0000	0.0000	97
98	0.77	-1.85	0.0	106.7	0.0000	0.0000	98
99	1.15	-2.77	0.0	106.7	0.0000	0.0000	99
100	1.53	-3.70	0.0	106.7	0.0000	0.0000	100
101	1.91	-4.62	0.0	106.7	0.0000	0.0000	101
102	2.30	-5.54	0.0	106.7	0.0000	0.0000	102
103	2.68	-6.47	0.0	106.7	0.0000	0.0000	103
104	3.06	-7.39	0.0	106.7	0.0000	0.0000	104
105	3.44	-8.31	0.0	106.7	0.0000	0.0000	105
106	3.83	-9.24	0.0	106.7	0.0000	0.0000	106
107	5.74	-13.86	0.0	106.7	0.0000	0.0000	107
108	7.76	-18.48	0.0	106.7	0.0000	0.0000	108
109	9.57	-23.10	0.0	106.7	0.0000	0.0000	109
110	11.48	-27.72	0.0	106.7	0.0000	0.0000	110

111	15.31	-36.96	0.0	106.7	0.0000	0.0000	111
112	19.13	-46.19	0.0	106.7	0.0000	0.0000	112
113	0.00	-1.00	0.0	106.7	0.0000	0.0000	113
114	0.00	-2.00	0.0	106.7	0.0000	0.0000	114
115	0.00	-3.00	0.0	106.7	0.0000	0.0000	115
116	0.00	-4.00	0.0	106.7	0.0000	0.0000	116
117	0.00	-5.00	0.0	106.7	0.0000	0.0000	117
118	0.00	-6.00	0.0	106.7	0.0000	0.0000	118
119	0.00	-7.00	0.0	106.7	0.0000	0.0000	119
120	0.00	-8.00	0.0	106.7	0.0000	0.0000	120
121	0.00	-9.00	0.0	106.7	0.0000	0.0000	121
122	0.00	-10.00	0.0	106.7	0.0000	0.0000	122
123	0.00	-15.00	0.0	106.7	0.0000	0.0000	123
124	0.00	-20.00	0.0	106.7	0.0000	0.0000	124
125	0.00	-25.00	0.0	106.7	0.0000	0.0000	125
126	0.00	-30.00	0.0	106.7	0.0000	0.0000	126
127	0.00	-40.00	0.0	106.7	0.0000	0.0000	127
128	0.00	-50.00	0.0	106.7	0.0000	0.0000	128

Susitna DEIS Comments
Nenana Site Three 200 MW Coal Fired Plants
Worst Case Impacts for SO2 Using Worst Case Coal

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 84/ 1 : HOUR 4

RECEPTOR NO.	NAME	EAST COORD	NORTH COORD	RECEPTOR HT ABV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1		0.38	0.92	0.0	106.7	0.0000	0.0000	1
2		0.77	1.85	0.0	106.7	0.0000	0.0000	2
3		1.15	2.77	0.0	106.7	0.0000	0.0000	3
4		1.53	3.70	0.0	106.7	0.0000	0.0000	4
5		1.91	4.62	0.0	106.7	0.0000	0.0000	5
6		2.30	5.54	0.0	106.7	0.0000	0.0000	6
7		2.68	6.47	0.0	106.7	0.0000	0.0000	7
8		3.06	7.39	0.0	106.7	0.0000	0.0000	8
9		3.44	8.31	0.0	106.7	0.0000	0.0000	9
10		3.83	9.24	0.0	106.7	0.0000	0.0000	10
11		5.74	13.86	0.0	106.7	0.0000	0.0000	11
12		7.76	18.48	0.0	106.7	0.0000	0.0000	12
13		9.57	23.10	0.0	106.7	0.0000	0.0000	13
14		11.48	27.72	0.0	106.7	0.0000	0.0000	14
15		15.31	36.96	0.0	106.7	0.0000	0.0000	15
16		19.13	46.19	0.0	106.7	0.0000	0.0000	16
17		0.71	0.71	0.0	106.7	0.0000	0.0000	17
18		1.41	1.41	0.0	106.7	0.0000	0.0000	18
19		2.12	2.12	0.0	106.7	0.0000	0.0000	19
20		2.83	2.83	0.0	106.7	0.0000	0.0000	20
21		3.54	3.54	0.0	106.7	0.0000	0.0000	21
22		4.24	4.24	0.0	106.7	0.0000	0.0000	22
23		4.95	4.95	0.0	182.9	0.0000	0.0000	23
24		5.66	5.66	0.0	213.4	0.0000	0.0000	24
25**		6.36	6.36	0.0	396.2	0.0000	0.0000	25
26**		7.07	7.07	0.0	487.7	0.0000	0.0000	26
27**		10.61	10.61	0.0	426.7	0.0000	0.0000	27
28**		14.14	14.14	0.0	426.7	0.0000	0.0000	28
29**		17.68	17.68	0.0	426.7	0.0000	0.0000	29
30**		21.21	21.21	0.0	426.7	0.0000	0.0000	30
31**		28.28	28.28	0.0	426.7	0.0000	0.0000	31
32**		35.36	35.36	0.0	426.7	0.0000	0.0000	32
33		0.92	0.38	0.0	106.7	0.0000	0.0000	33
34		1.85	0.77	0.0	106.7	0.0000	0.0000	34
35		2.77	1.15	0.0	106.7	0.0000	0.0000	35
36		3.70	1.53	0.0	106.7	0.0000	0.0000	36
37		4.62	1.91	0.0	106.7	0.0000	0.0000	37
38		5.54	2.30	0.0	106.7	0.0000	0.0000	38
39		6.47	2.68	0.0	106.7	0.0000	0.0000	39
40		7.39	3.06	0.0	106.7	0.0000	0.0000	40
41		8.31	3.44	0.0	106.7	0.0000	0.0000	41
42		9.24	3.83	0.0	106.7	0.0000	0.0000	42
43		13.86	5.74	0.0	106.7	0.0000	0.0000	43
44		18.48	7.65	0.0	106.7	0.0000	0.0000	44
45		23.10	9.57	0.0	106.7	0.0000	0.0000	45
46		27.72	11.48	0.0	106.7	0.0000	0.0000	46
47		36.96	15.31	0.0	106.7	0.0000	0.0000	47
48		46.19	19.13	0.0	106.7	0.0000	0.0000	48
49		1.00	0.00	0.0	106.7	0.0000	0.0000	49

50	2.00	0.00	0.0	106.7	0.0000	0.0000	50
51	3.00	0.00	0.0	106.7	0.0000	0.0000	51
52	4.00	0.00	0.0	106.7	0.0000	0.0000	52
53	5.00	0.00	0.0	106.7	0.0000	0.0000	53
54	6.00	0.00	0.0	106.7	0.0000	0.0000	54
55	7.00	0.00	0.0	106.7	0.0000	0.0000	55
56	8.00	0.00	0.0	106.7	0.0000	0.0000	56
57	9.00	0.00	0.0	106.7	0.0000	0.0000	57
58	10.00	0.00	0.0	106.7	0.0000	0.0000	58
59	15.00	0.00	0.0	106.7	0.0000	0.0000	59
60	20.00	0.00	0.0	106.7	0.0000	0.0000	60
61	25.00	0.00	0.0	106.7	0.0000	0.0000	61
62	30.00	0.00	0.0	106.7	0.0000	0.0000	62
63	40.00	0.00	0.0	106.7	0.0000	0.0000	63
64	50.00	0.00	0.0	106.7	0.0000	0.0000	64
65	0.92	-0.38	0.0	106.7	0.0000	0.0000	65
66	1.85	-0.77	0.0	106.7	0.0000	0.0000	66
67	2.77	-1.15	0.0	106.7	0.0000	0.0000	67
68	3.70	-1.53	0.0	106.7	0.0000	0.0000	68
69	4.62	-1.91	0.0	106.7	0.0000	0.0000	69
70	5.54	-2.30	0.0	106.7	0.0000	0.0000	70
71	6.47	-2.68	0.0	106.7	0.0000	0.0000	71
72	7.39	-3.06	0.0	106.7	0.0000	0.0000	72
73	8.31	-3.44	0.0	106.7	0.0000	0.0000	73
74	9.24	-3.83	0.0	106.7	0.0000	0.0000	74
75	13.86	-5.74	0.0	106.7	0.0000	0.0000	75
76	18.48	-7.65	0.0	106.7	0.0000	0.0000	76
77	23.10	-9.57	0.0	106.7	0.0000	0.0000	77
78	27.72	-11.48	0.0	106.7	0.0000	0.0000	78
79	36.96	-15.31	0.0	106.7	0.0000	0.0000	79
80	46.19	-19.13	0.0	106.7	0.0000	0.0000	80
81	0.71	-0.71	0.0	106.7	0.0000	0.0000	81
82	1.41	-1.41	0.0	106.7	0.0000	0.0000	82
83	2.12	-2.12	0.0	106.7	0.0000	0.0000	83
84	2.83	-2.83	0.0	106.7	0.0000	0.0000	84
85	3.54	-3.54	0.0	106.7	0.0000	0.0000	85
86	4.24	-4.24	0.0	106.7	0.0000	0.0000	86
87	4.95	-4.95	0.0	106.7	0.0000	0.0000	87
88	5.66	-5.66	0.0	106.7	0.0000	0.0000	88
89	6.36	-6.36	0.0	106.7	0.0000	0.0000	89
90	7.07	-7.07	0.0	106.7	0.0000	0.0000	90
91	10.61	-10.61	0.0	106.7	0.0000	0.0000	91
92	14.14	-14.14	0.0	106.7	0.0000	0.0000	92
93	17.68	-17.68	0.0	106.7	0.0000	0.0000	93
94	21.21	-21.21	0.0	106.7	0.0000	0.0000	94
95	28.28	-28.28	0.0	106.7	0.0000	0.0000	95
96	35.36	-35.36	0.0	106.7	0.0000	0.0000	96
97	0.38	-0.92	0.0	106.7	0.0000	0.0000	97
98	0.77	-1.85	0.0	106.7	0.0000	0.0000	98
99	1.15	-2.77	0.0	106.7	0.0000	0.0000	99
100	1.53	-3.70	0.0	106.7	0.0000	0.0000	100
101	1.91	-4.62	0.0	106.7	0.0000	0.0000	101
102	2.30	-5.54	0.0	106.7	0.0000	0.0000	102
103	2.68	-6.47	0.0	106.7	0.0000	0.0000	103
104	3.06	-7.39	0.0	106.7	0.0000	0.0000	104
105	3.44	-8.31	0.0	106.7	0.0000	0.0000	105
106	3.83	-9.24	0.0	106.7	0.0000	0.0000	106
107	5.74	-13.86	0.0	106.7	0.0000	0.0000	107
108	7.76	-18.48	0.0	106.7	0.0000	0.0000	108
109	9.57	-23.10	0.0	106.7	0.0000	0.0000	109
110	11.48	-27.72	0.0	106.7	0.0000	0.0000	110

111	15.31	-36.96	0.0	106.7	0.0000	0.0000	111
112	19.13	-46.19	0.0	106.7	0.0000	0.0000	112
113	0.00	-1.00	0.0	106.7	0.0000	0.0000	113
114	0.00	-2.00	0.0	106.7	0.0000	0.0000	114
115	0.00	-3.00	0.0	106.7	0.0000	0.0000	115
116	0.00	-4.00	0.0	106.7	0.0000	0.0000	116
117	0.00	-5.00	0.0	106.7	0.0000	0.0000	117
118	0.00	-6.00	0.0	106.7	0.0000	0.0000	118
119	0.00	-7.00	0.0	106.7	0.0000	0.0000	119
120	0.00	-8.00	0.0	106.7	0.0000	0.0000	120
121	0.00	-9.00	0.0	106.7	0.0000	0.0000	121
122	0.00	-10.00	0.0	106.7	0.0000	0.0000	122
123	0.00	-15.00	0.0	106.7	0.0000	0.0000	123
124	0.00	-20.00	0.0	106.7	0.0000	0.0000	124
125	0.00	-25.00	0.0	106.7	0.0000	0.0000	125
126	0.00	-30.00	0.0	106.7	0.0000	0.0000	126
127	0.00	-40.00	0.0	106.7	0.0000	0.0000	127
128	0.00	-50.00	0.0	106.7	0.0000	0.0000	128

Susitna DEIS Comments
Nenana Site Three 200 MW Coal Fired Plants
Worst Case Impacts for SO2 Using Worst Case Coal

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 84/ 1 : HOUR 5

RECEPTOR NO.	NAME	EAST COORD	NORTH COORD	RECEPTOR HT ABV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1		0.38	0.92	0.0	106.7	0.0000	0.0000	1
2		0.77	1.85	0.0	106.7	0.0000	0.0000	2
3		1.15	2.77	0.0	106.7	0.0000	0.0000	3
4		1.53	3.70	0.0	106.7	0.0000	0.0000	4
5		1.91	4.62	0.0	106.7	0.0000	0.0000	5
6		2.30	5.54	0.0	106.7	0.0000	0.0000	6
7		2.68	6.47	0.0	106.7	0.0000	0.0000	7
8		3.06	7.39	0.0	106.7	0.0000	0.0000	8
9		3.44	8.31	0.0	106.7	0.0000	0.0000	9
10		3.83	9.24	0.0	106.7	0.0000	0.0000	10
11		5.74	13.86	0.0	106.7	0.0000	0.0000	11
12		7.76	18.48	0.0	106.7	0.0000	0.0000	12
13		9.57	23.10	0.0	106.7	0.0000	0.0000	13
14		11.48	27.72	0.0	106.7	0.0000	0.0000	14
15		15.31	36.96	0.0	106.7	0.0000	0.0000	15
16		19.13	46.19	0.0	106.7	0.0000	0.0000	16
17		0.71	0.71	0.0	106.7	0.0000	0.0000	17
18		1.41	1.41	0.0	106.7	0.0000	0.0000	18
19		2.12	2.12	0.0	106.7	0.0000	0.0000	19
20		2.83	2.83	0.0	106.7	0.0000	0.0000	20
21		3.54	3.54	0.0	106.7	0.0000	0.0000	21
22		4.24	4.24	0.0	106.7	0.0000	0.0000	22
23		4.95	4.95	0.0	182.9	0.0000	0.0000	23
24		5.66	5.66	0.0	213.4	0.0000	0.0000	24
25**		6.36	6.36	0.0	396.2	0.0000	0.0000	25
26**		7.07	7.07	0.0	487.7	0.0000	0.0000	26
27**		10.61	10.61	0.0	426.7	0.0000	0.0000	27
28**		14.14	14.14	0.0	426.7	0.0000	0.0000	28
29**		17.68	17.68	0.0	426.7	0.0000	0.0000	29
30**		21.21	21.21	0.0	426.7	0.0000	0.0000	30
31**		28.28	28.28	0.0	426.7	0.0000	0.0000	31
32**		35.36	35.36	0.0	426.7	0.0000	0.0000	32
33		0.92	0.38	0.0	106.7	0.0000	0.0000	33
34		1.85	0.77	0.0	106.7	0.0000	0.0000	34
35		2.77	1.15	0.0	106.7	0.0000	0.0000	35
36		3.70	1.53	0.0	106.7	0.0000	0.0000	36
37		4.62	1.91	0.0	106.7	0.0000	0.0000	37
38		5.54	2.30	0.0	106.7	0.0000	0.0000	38
39		6.47	2.68	0.0	106.7	0.0000	0.0000	39
40		7.39	3.06	0.0	106.7	0.0000	0.0000	40
41		8.31	3.44	0.0	106.7	0.0000	0.0000	41
42		9.24	3.83	0.0	106.7	0.0000	0.0000	42
43		13.86	5.74	0.0	106.7	0.0000	0.0000	43
44		18.48	7.65	0.0	106.7	0.0000	0.0000	44
45		23.10	9.57	0.0	106.7	0.0000	0.0000	45
46		27.72	11.48	0.0	106.7	0.0000	0.0000	46
47		36.96	15.31	0.0	106.7	0.0000	0.0000	47
48		46.19	19.13	0.0	106.7	0.0000	0.0000	48
49		1.00	0.00	0.0	106.7	0.0000	0.0000	49

50	2.00	0.00	0.0	106.7	0.0000	0.0000	50
51	3.00	0.00	0.0	106.7	0.0000	0.0000	51
52	4.00	0.00	0.0	106.7	0.0000	0.0000	52
53	5.00	0.00	0.0	106.7	0.0000	0.0000	53
54	6.00	0.00	0.0	106.7	0.0000	0.0000	54
55	7.00	0.00	0.0	106.7	0.0000	0.0000	55
56	8.00	0.00	0.0	106.7	0.0000	0.0000	56
57	9.00	0.00	0.0	106.7	0.0000	0.0000	57
58	10.00	0.00	0.0	106.7	0.0000	0.0000	58
59	15.00	0.00	0.0	106.7	0.0000	0.0000	59
60	20.00	0.00	0.0	106.7	0.0000	0.0000	60
61	25.00	0.00	0.0	106.7	0.0000	0.0000	61
62	30.00	0.00	0.0	106.7	0.0000	0.0000	62
63	40.00	0.00	0.0	106.7	0.0000	0.0000	63
64	50.00	0.00	0.0	106.7	0.0000	0.0000	64
65	0.92	-0.38	0.0	106.7	0.0000	0.0000	65
66	1.85	-0.77	0.0	106.7	0.0000	0.0000	66
67	2.77	-1.15	0.0	106.7	0.0000	0.0000	67
68	3.70	-1.53	0.0	106.7	0.0000	0.0000	68
69	4.62	-1.91	0.0	106.7	0.0000	0.0000	69
70	5.54	-2.30	0.0	106.7	0.0000	0.0000	70
71	6.47	-2.68	0.0	106.7	0.0000	0.0000	71
72	7.39	-3.06	0.0	106.7	0.0000	0.0000	72
73	8.31	-3.44	0.0	106.7	0.0000	0.0000	73
74	9.24	-3.83	0.0	106.7	0.0000	0.0000	74
75	13.86	-5.74	0.0	106.7	0.0000	0.0000	75
76	18.48	-7.65	0.0	106.7	0.0000	0.0000	76
77	23.10	-9.57	0.0	106.7	0.0000	0.0000	77
78	27.72	-11.48	0.0	106.7	0.0000	0.0000	78
79	36.96	-15.31	0.0	106.7	0.0000	0.0000	79
80	46.19	-19.13	0.0	106.7	0.0000	0.0000	80
81	0.71	-0.71	0.0	106.7	0.0000	0.0000	81
82	1.41	-1.41	0.0	106.7	0.0000	0.0000	82
83	2.12	-2.12	0.0	106.7	0.0000	0.0000	83
84	2.83	-2.83	0.0	106.7	0.0000	0.0000	84
85	3.54	-3.54	0.0	106.7	0.0000	0.0000	85
86	4.24	-4.24	0.0	106.7	0.0000	0.0000	86
87	4.95	-4.95	0.0	106.7	0.0000	0.0000	87
88	5.66	-5.66	0.0	106.7	0.0000	0.0000	88
89	6.36	-6.36	0.0	106.7	0.0000	0.0000	89
90	7.07	-7.07	0.0	106.7	0.0000	0.0000	90
91	10.61	-10.61	0.0	106.7	0.0000	0.0000	91
92	14.14	-14.14	0.0	106.7	0.0000	0.0000	92
93	17.68	-17.68	0.0	106.7	0.0000	0.0000	93
94	21.21	-21.21	0.0	106.7	0.0000	0.0000	94
95	28.28	-28.28	0.0	106.7	0.0000	0.0000	95
96	35.36	-35.36	0.0	106.7	0.0000	0.0000	96
97	0.38	-0.92	0.0	106.7	0.0000	0.0000	97
98	0.77	-1.85	0.0	106.7	0.0000	0.0000	98
99	1.15	-2.77	0.0	106.7	0.0000	0.0000	99
100	1.53	-3.70	0.0	106.7	0.0000	0.0000	100
101	1.91	-4.62	0.0	106.7	0.0000	0.0000	101
102	2.30	-5.54	0.0	106.7	0.0000	0.0000	102
103	2.68	-6.47	0.0	106.7	0.0000	0.0000	103
104	3.06	-7.39	0.0	106.7	0.0000	0.0000	104
105	3.44	-8.31	0.0	106.7	0.0000	0.0000	105
106	3.83	-9.24	0.0	106.7	0.0000	0.0000	106
107	5.74	-13.86	0.0	106.7	0.0000	0.0000	107
108	7.76	-18.48	0.0	106.7	0.0000	0.0000	108
109	9.57	-23.10	0.0	106.7	0.0000	0.0000	109
110	11.48	-27.72	0.0	106.7	0.0000	0.0000	110

111	15.31	-36.96	0.0	106.7	0.0000	0.0000	111
112	19.13	-46.19	0.0	106.7	0.0000	0.0000	112
113	0.00	-1.00	0.0	106.7	0.0000	0.0000	113
114	0.00	-2.00	0.0	106.7	0.0000	0.0000	114
115	0.00	-3.00	0.0	106.7	0.0000	0.0000	115
116	0.00	-4.00	0.0	106.7	0.0000	0.0000	116
117	0.00	-5.00	0.0	106.7	0.0000	0.0000	117
118	0.00	-6.00	0.0	106.7	0.0000	0.0000	118
119	0.00	-7.00	0.0	106.7	0.0000	0.0000	119
120	0.00	-8.00	0.0	106.7	0.0000	0.0000	120
121	0.00	-9.00	0.0	106.7	0.0000	0.0000	121
122	0.00	-10.00	0.0	106.7	0.0000	0.0000	122
123	0.00	-15.00	0.0	106.7	0.0000	0.0000	123
124	0.00	-20.00	0.0	106.7	0.0000	0.0000	124
125	0.00	-25.00	0.0	106.7	0.0000	0.0000	125
126	0.00	-30.00	0.0	106.7	0.0000	0.0000	126
127	0.00	-40.00	0.0	106.7	0.0000	0.0000	127
128	0.00	-50.00	0.0	106.7	0.0000	0.0000	128

Susitna DEIS Comments
Nenana Site Three 200 MW Coal Fired Plants
Worst Case Impacts for SO2 Using Worst Case Coal

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 84/ 1 : HOUR 6

RECEPTOR NO.	NAME	EAST COORD	NORTH COORD	RECEPTOR HT ABV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1		0.38	0.92	0.0	106.7	0.0000	0.0000	1
2		0.77	1.85	0.0	106.7	0.0000	0.0000	2
3		1.15	2.77	0.0	106.7	0.0000	0.0000	3
4		1.53	3.70	0.0	106.7	0.0000	0.0000	4
5		1.91	4.62	0.0	106.7	0.0000	0.0000	5
6		2.30	5.54	0.0	106.7	0.0000	0.0000	6
7		2.68	6.47	0.0	106.7	0.0000	0.0000	7
8		3.06	7.39	0.0	106.7	0.0000	0.0000	8
9		3.44	8.31	0.0	106.7	0.0000	0.0000	9
10		3.83	9.24	0.0	106.7	0.0000	0.0000	10
11		5.74	13.86	0.0	106.7	0.0000	0.0000	11
12		7.76	18.48	0.0	106.7	0.0000	0.0000	12
13		9.57	23.10	0.0	106.7	0.0000	0.0000	13
14		11.48	27.72	0.0	106.7	0.0000	0.0000	14
15		15.31	36.96	0.0	106.7	0.0000	0.0000	15
16		19.13	46.19	0.0	106.7	0.0000	0.0000	16
17		0.71	0.71	0.0	106.7	0.0000	0.0000	17
18		1.41	1.41	0.0	106.7	0.0000	0.0000	18
19		2.12	2.12	0.0	106.7	0.0000	0.0000	19
20		2.83	2.83	0.0	106.7	0.0000	0.0000	20
21		3.54	3.54	0.0	106.7	0.0000	0.0000	21
22		4.24	4.24	0.0	106.7	0.0000	0.0000	22
23		4.95	4.95	0.0	182.9	0.0000	0.0000	23
24		5.66	5.66	0.0	213.4	0.0000	0.0000	24
25**		6.36	6.36	0.0	396.2	0.0000	0.0000	25
26**		7.07	7.07	0.0	487.7	0.0000	0.0000	26
27**		10.61	10.61	0.0	426.7	0.0000	0.0000	27
28**		14.14	14.14	0.0	426.7	0.0000	0.0000	28
29**		17.68	17.68	0.0	426.7	0.0000	0.0000	29
30**		21.21	21.21	0.0	426.7	0.0000	0.0000	30
31**		28.28	28.28	0.0	426.7	0.0000	0.0000	31
32**		35.36	35.36	0.0	426.7	0.0000	0.0000	32
33		0.92	0.38	0.0	106.7	0.0000	0.0000	33
34		1.85	0.77	0.0	106.7	0.0000	0.0000	34
35		2.77	1.15	0.0	106.7	0.0000	0.0000	35
36		3.70	1.53	0.0	106.7	0.0000	0.0000	36
37		4.62	1.91	0.0	106.7	0.0000	0.0000	37
38		5.54	2.30	0.0	106.7	0.0000	0.0000	38
39		6.47	2.68	0.0	106.7	0.0000	0.0000	39
40		7.39	3.06	0.0	106.7	0.0000	0.0000	40
41		8.31	3.44	0.0	106.7	0.0000	0.0000	41
42		9.24	3.83	0.0	106.7	0.0000	0.0000	42
43		13.86	5.74	0.0	106.7	0.0000	0.0000	43
44		18.48	7.65	0.0	106.7	0.0000	0.0000	44
45		23.10	9.57	0.0	106.7	0.0000	0.0000	45
46		27.72	11.48	0.0	106.7	0.0000	0.0000	46
47		36.96	15.31	0.0	106.7	0.0000	0.0000	47
48		46.19	19.13	0.0	106.7	0.0000	0.0000	48
49		1.00	0.00	0.0	106.7	0.0000	0.0000	49

20

50	2.00	0.00	0.0	106.7	0.0000	0.0000	50
51	3.00	0.00	0.0	106.7	0.0000	0.0000	51
52	4.00	0.00	0.0	106.7	0.0000	0.0000	52
53	5.00	0.00	0.0	106.7	0.0000	0.0000	53
54	6.00	0.00	0.0	106.7	0.0000	0.0000	54
55	7.00	0.00	0.0	106.7	0.0000	0.0000	55
56	8.00	0.00	0.0	106.7	0.0000	0.0000	56
57	9.00	0.00	0.0	106.7	0.0000	0.0000	57
58	10.00	0.00	0.0	106.7	0.0000	0.0000	58
59	15.00	0.00	0.0	106.7	0.0000	0.0000	59
60	20.00	0.00	0.0	106.7	0.0000	0.0000	60
61	25.00	0.00	0.0	106.7	0.0000	0.0000	61
62	30.00	0.00	0.0	106.7	0.0000	0.0000	62
63	40.00	0.00	0.0	106.7	0.0000	0.0000	63
64	50.00	0.00	0.0	106.7	0.0000	0.0000	64
65	0.92	-0.38	0.0	106.7	0.0000	0.0000	65
66	1.85	-0.77	0.0	106.7	0.0000	0.0000	66
67	2.77	-1.15	0.0	106.7	0.0000	0.0000	67
68	3.70	-1.53	0.0	106.7	0.0000	0.0000	68
69	4.62	-1.91	0.0	106.7	0.0000	0.0000	69
70	5.54	-2.30	0.0	106.7	0.0000	0.0000	70
71	6.47	-2.68	0.0	106.7	0.0000	0.0000	71
72	7.39	-3.06	0.0	106.7	0.0000	0.0000	72
73	8.31	-3.44	0.0	106.7	0.0000	0.0000	73
74	9.24	-3.83	0.0	106.7	0.0000	0.0000	74
75	13.86	-5.74	0.0	106.7	0.0000	0.0000	75
76	18.48	-7.65	0.0	106.7	0.0000	0.0000	76
77	23.10	-9.57	0.0	106.7	0.0000	0.0000	77
78	27.72	-11.48	0.0	106.7	0.0000	0.0000	78
79	36.96	-15.31	0.0	106.7	0.0000	0.0000	79
80	46.19	-19.13	0.0	106.7	0.0000	0.0000	80
81	0.71	-0.71	0.0	106.7	0.0000	0.0000	81
82	1.41	-1.41	0.0	106.7	0.0000	0.0000	82
83	2.12	-2.12	0.0	106.7	0.0000	0.0000	83
84	2.83	-2.83	0.0	106.7	0.0000	0.0000	84
85	3.54	-3.54	0.0	106.7	0.0000	0.0000	85
86	4.24	-4.24	0.0	106.7	0.0000	0.0000	86
87	4.95	-4.95	0.0	106.7	0.0000	0.0000	87
88	5.66	-5.66	0.0	106.7	0.0000	0.0000	88
89	6.36	-6.36	0.0	106.7	0.0000	0.0000	89
90	7.07	-7.07	0.0	106.7	0.0000	0.0000	90
91	10.61	-10.61	0.0	106.7	0.0000	0.0000	91
92	14.14	-14.14	0.0	106.7	0.0000	0.0000	92
93	17.68	-17.68	0.0	106.7	0.0000	0.0000	93
94	21.21	-21.21	0.0	106.7	0.0000	0.0000	94
95	28.28	-28.28	0.0	106.7	0.0000	0.0000	95
96	35.36	-35.36	0.0	106.7	0.0000	0.0000	96
97	0.38	-0.92	0.0	106.7	0.0000	0.0000	97
98	0.77	-1.85	0.0	106.7	0.0000	0.0000	98
99	1.15	-2.77	0.0	106.7	0.0000	0.0000	99
100	1.53	-3.70	0.0	106.7	0.0000	0.0000	100
101	1.91	-4.62	0.0	106.7	0.0000	0.0000	101
102	2.30	-5.54	0.0	106.7	0.0000	0.0000	102
103	2.68	-6.47	0.0	106.7	0.0000	0.0000	103
104	3.06	-7.39	0.0	106.7	0.0000	0.0000	104
105	3.44	-8.31	0.0	106.7	0.0000	0.0000	105
106	3.83	-9.24	0.0	106.7	0.0000	0.0000	106
107	5.74	-13.86	0.0	106.7	0.0000	0.0000	107
108	7.76	-18.48	0.0	106.7	0.0000	0.0000	108
109	9.57	-23.10	0.0	106.7	0.0000	0.0000	109
110	11.48	-27.72	0.0	106.7	0.0000	0.0000	110

12

111	15.31	-36.96	0.0	106.7	0.0000	0.0000	111
112	19.13	-46.19	0.0	106.7	0.0000	0.0000	112
113	0.00	-1.00	0.0	106.7	0.0000	0.0000	113
114	0.00	-2.00	0.0	106.7	0.0000	0.0000	114
115	0.00	-3.00	0.0	106.7	0.0000	0.0000	115
116	0.00	-4.00	0.0	106.7	0.0000	0.0000	116
117	0.00	-5.00	0.0	106.7	0.0000	0.0000	117
118	0.00	-6.00	0.0	106.7	0.0000	0.0000	118
119	0.00	-7.00	0.0	106.7	0.0000	0.0000	119
120	0.00	-8.00	0.0	106.7	0.0000	0.0000	120
121	0.00	-9.00	0.0	106.7	0.0000	0.0000	121
122	0.00	-10.00	0.0	106.7	0.0000	0.0000	122
123	0.00	-15.00	0.0	106.7	0.0000	0.0000	123
124	0.00	-20.00	0.0	106.7	0.0000	0.0000	124
125	0.00	-25.00	0.0	106.7	0.0000	0.0000	125
126	0.00	-30.00	0.0	106.7	0.0000	0.0000	126
127	0.00	-40.00	0.0	106.7	0.0000	0.0000	127
128	0.00	-50.00	0.0	106.7	0.0000	0.0000	128

22

Susitna DEIS Comments
Nenana Site Three 200 MW Coal Fired Plants
Worst Case Impacts for SO2 Using Worst Case Coal

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 84/ 1 : HOUR 7

RECEPTOR NO.	NAME	EAST COORD	NORTH COORD	RECEPTOR HT ABV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1		0.38	0.92	0.0	106.7	0.0000	0.0000	1
2		0.77	1.85	0.0	106.7	0.0000	0.0000	2
3		1.15	2.77	0.0	106.7	0.0000	0.0000	3
4		1.53	3.70	0.0	106.7	0.0000	0.0000	4
5		1.91	4.62	0.0	106.7	0.0000	0.0000	5
6		2.30	5.54	0.0	106.7	0.0000	0.0000	6
7		2.68	6.47	0.0	106.7	0.0000	0.0000	7
8		3.06	7.39	0.0	106.7	0.0000	0.0000	8
9		3.44	8.31	0.0	106.7	0.0000	0.0000	9
10		3.83	9.24	0.0	106.7	0.0000	0.0000	10
11		5.74	13.86	0.0	106.7	0.0000	0.0000	11
12		7.76	18.48	0.0	106.7	0.0000	0.0000	12
13		9.57	23.10	0.0	106.7	0.0000	0.0000	13
14		11.48	27.72	0.0	106.7	0.0000	0.0000	14
15		15.31	36.96	0.0	106.7	0.0000	0.0000	15
16		19.13	46.19	0.0	106.7	0.0000	0.0000	16
17		0.71	0.71	0.0	106.7	0.0000	0.0000	17
18		1.41	1.41	0.0	106.7	0.0000	0.0000	18
19		2.12	2.12	0.0	106.7	0.0000	0.0000	19
20		2.83	2.83	0.0	106.7	0.0000	0.0000	20
21		3.54	3.54	0.0	106.7	0.0000	0.0000	21
22		4.24	4.24	0.0	106.7	0.0000	0.0000	22
23		4.95	4.95	0.0	182.9	0.0000	0.0000	23
24		5.66	5.66	0.0	213.4	0.0000	0.0000	24
25**		6.36	6.36	0.0	396.2	0.0000	0.0000	25
26**		7.07	7.07	0.0	487.7	0.0000	0.0000	26
27**		10.61	10.61	0.0	426.7	0.0000	0.0000	27
28**		14.14	14.14	0.0	426.7	0.0000	0.0000	28
29**		17.68	17.68	0.0	426.7	0.0000	0.0000	29
30**		21.21	21.21	0.0	426.7	0.0000	0.0000	30
31**		28.28	28.28	0.0	426.7	0.0000	0.0000	31
32**		35.36	35.36	0.0	426.7	0.0000	0.0000	32
33		0.92	0.38	0.0	106.7	0.0000	0.0000	33
34		1.85	0.77	0.0	106.7	0.0000	0.0000	34
35		2.77	1.15	0.0	106.7	0.0000	0.0000	35
36		3.70	1.53	0.0	106.7	0.0000	0.0000	36
37		4.62	1.91	0.0	106.7	0.0000	0.0000	37
38		5.54	2.30	0.0	106.7	0.0000	0.0000	38
39		6.47	2.68	0.0	106.7	0.0000	0.0000	39
40		7.39	3.06	0.0	106.7	0.0000	0.0000	40
41		8.31	3.44	0.0	106.7	0.0000	0.0000	41
42		9.24	3.83	0.0	106.7	0.0000	0.0000	42
43		13.86	5.74	0.0	106.7	0.0000	0.0000	43
44		18.48	7.65	0.0	106.7	0.0000	0.0000	44
45		23.10	9.57	0.0	106.7	0.0000	0.0000	45
46		27.72	11.48	0.0	106.7	0.0000	0.0000	46
47		36.96	15.31	0.0	106.7	0.0000	0.0000	47
48		46.19	19.13	0.0	106.7	0.0000	0.0000	48
49		1.00	0.00	0.0	106.7	0.0000	0.0000	49

23

50	2.00	0.00	0.0	106.7	0.0000	0.0000	50
51	3.00	0.00	0.0	106.7	0.0000	0.0000	51
52	4.00	0.00	0.0	106.7	0.0000	0.0000	52
53	5.00	0.00	0.0	106.7	0.0000	0.0000	53
54	6.00	0.00	0.0	106.7	0.0000	0.0000	54
55	7.00	0.00	0.0	106.7	0.0000	0.0000	55
56	8.00	0.00	0.0	106.7	0.0000	0.0000	56
57	9.00	0.00	0.0	106.7	0.0000	0.0000	57
58	10.00	0.00	0.0	106.7	0.0000	0.0000	58
59	15.00	0.00	0.0	106.7	0.0000	0.0000	59
60	20.00	0.00	0.0	106.7	0.0000	0.0000	60
61	25.00	0.00	0.0	106.7	0.0000	0.0000	61
62	30.00	0.00	0.0	106.7	0.0000	0.0000	62
63	40.00	0.00	0.0	106.7	0.0000	0.0000	63
64	50.00	0.00	0.0	106.7	0.0000	0.0000	64
65	0.92	-0.38	0.0	106.7	0.0000	0.0000	65
66	1.85	-0.77	0.0	106.7	0.0000	0.0000	66
67	2.77	-1.15	0.0	106.7	0.0000	0.0000	67
68	3.70	-1.53	0.0	106.7	0.0000	0.0000	68
69	4.62	-1.91	0.0	106.7	0.0000	0.0000	69
70	5.54	-2.30	0.0	106.7	0.0000	0.0000	70
71	6.47	-2.68	0.0	106.7	0.0000	0.0000	71
72	7.39	-3.06	0.0	106.7	0.0000	0.0000	72
73	8.31	-3.44	0.0	106.7	0.0000	0.0000	73
74	9.24	-3.83	0.0	106.7	0.0000	0.0000	74
75	13.86	-5.74	0.0	106.7	0.0000	0.0000	75
76	18.48	-7.65	0.0	106.7	0.0000	0.0000	76
77	23.10	-9.57	0.0	106.7	0.0000	0.0000	77
78	27.72	-11.48	0.0	106.7	0.0000	0.0000	78
79	36.96	-15.31	0.0	106.7	0.0000	0.0000	79
80	46.19	-19.13	0.0	106.7	0.0000	0.0000	80
81	0.71	-0.71	0.0	106.7	0.0000	0.0000	81
82	1.41	-1.41	0.0	106.7	0.0000	0.0000	82
83	2.12	-2.12	0.0	106.7	0.0000	0.0000	83
84	2.83	-2.83	0.0	106.7	0.0000	0.0000	84
85	3.54	-3.54	0.0	106.7	0.0000	0.0000	85
86	4.24	-4.24	0.0	106.7	0.0000	0.0000	86
87	4.95	-4.95	0.0	106.7	0.0000	0.0000	87
88	5.66	-5.66	0.0	106.7	0.0000	0.0000	88
89	6.36	-6.36	0.0	106.7	0.0000	0.0000	89
90	7.07	-7.07	0.0	106.7	0.0000	0.0000	90
91	10.61	-10.61	0.0	106.7	0.0000	0.0000	91
92	14.14	-14.14	0.0	106.7	0.0000	0.0000	92
93	17.68	-17.68	0.0	106.7	0.0000	0.0000	93
94	21.21	-21.21	0.0	106.7	0.0000	0.0000	94
95	28.28	-28.28	0.0	106.7	0.0000	0.0000	95
96	35.36	-35.36	0.0	106.7	0.0000	0.0000	96
97	0.38	-0.92	0.0	106.7	0.0000	0.0000	97
98	0.77	-1.85	0.0	106.7	0.0000	0.0000	98
99	1.15	-2.77	0.0	106.7	0.0000	0.0000	99
100	1.53	-3.70	0.0	106.7	0.0000	0.0000	100
101	1.91	-4.62	0.0	106.7	0.0000	0.0000	101
102	2.30	-5.54	0.0	106.7	0.0000	0.0000	102
103	2.68	-6.47	0.0	106.7	0.0000	0.0000	103
104	3.06	-7.39	0.0	106.7	0.0000	0.0000	104
105	3.44	-8.31	0.0	106.7	0.0000	0.0000	105
106	3.83	-9.24	0.0	106.7	0.0000	0.0000	106
107	5.74	-13.86	0.0	106.7	0.0000	0.0000	107
108	7.76	-18.48	0.0	106.7	0.0000	0.0000	108
109	9.57	-23.10	0.0	106.7	0.0000	0.0000	109
110	11.48	-27.72	0.0	106.7	0.0000	0.0000	110

111	15.31	-36.96	0.0	106.7	0.0000	0.0000	111
112	19.13	-46.19	0.0	106.7	0.0000	0.0000	112
113	0.00	-1.00	0.0	106.7	0.0000	0.0000	113
114	0.00	-2.00	0.0	106.7	0.0000	0.0000	114
115	0.00	-3.00	0.0	106.7	0.0000	0.0000	115
116	0.00	-4.00	0.0	106.7	0.0000	0.0000	116
117	0.00	-5.00	0.0	106.7	0.0000	0.0000	117
118	0.00	-6.00	0.0	106.7	0.0000	0.0000	118
119	0.00	-7.00	0.0	106.7	0.0000	0.0000	119
120	0.00	-8.00	0.0	106.7	0.0000	0.0000	120
121	0.00	-9.00	0.0	106.7	0.0000	0.0000	121
122	0.00	-10.00	0.0	106.7	0.0000	0.0000	122
123	0.00	-15.00	0.0	106.7	0.0000	0.0000	123
124	0.00	-20.00	0.0	106.7	0.0000	0.0000	124
125	0.00	-25.00	0.0	106.7	0.0000	0.0000	125
126	0.00	-30.00	0.0	106.7	0.0000	0.0000	126
127	0.00	-40.00	0.0	106.7	0.0000	0.0000	127
128	0.00	-50.00	0.0	106.7	0.0000	0.0000	128

Susitna DEIS Comments
Nenana Site Three 200 MW Coal Fired Plants
Worst Case Impacts for SO2 Using Worst Case Coal

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 84/ 1 : HOUR 8

RECEPTOR NO.	NAME	EAST COORD	NORTH COORD	RECEPTOR HT ABV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1		0.38	0.92	0.0	106.7	0.0000	0.0000	1
2		0.77	1.85	0.0	106.7	0.0000	0.0000	2
3		1.15	2.77	0.0	106.7	0.0000	0.0000	3
4		1.53	3.70	0.0	106.7	0.0000	0.0000	4
5		1.91	4.62	0.0	106.7	0.0000	0.0000	5
6		2.30	5.54	0.0	106.7	0.0000	0.0000	6
7		2.68	6.47	0.0	106.7	0.0000	0.0000	7
8		3.06	7.39	0.0	106.7	0.0000	0.0000	8
9		3.44	8.31	0.0	106.7	0.0000	0.0000	9
10		3.83	9.24	0.0	106.7	0.0000	0.0000	10
11		5.74	13.86	0.0	106.7	0.0000	0.0000	11
12		7.76	18.48	0.0	106.7	0.0000	0.0000	12
13		9.57	23.10	0.0	106.7	0.0000	0.0000	13
14		11.48	27.72	0.0	106.7	0.0000	0.0000	14
15		15.31	36.96	0.0	106.7	0.0000	0.0000	15
16		19.13	46.19	0.0	106.7	0.0000	0.0000	16
17		0.71	0.71	0.0	106.7	0.0000	0.0000	17
18		1.41	1.41	0.0	106.7	0.0000	0.0000	18
19		2.12	2.12	0.0	106.7	0.0000	0.0000	19
20		2.83	2.83	0.0	106.7	0.0000	0.0000	20
21		3.54	3.54	0.0	106.7	0.0000	0.0000	21
22		4.24	4.24	0.0	106.7	0.0000	0.0000	22
23		4.95	4.95	0.0	182.9	0.0000	0.0000	23
24		5.66	5.66	0.0	213.4	0.0000	0.0000	24
25**		6.36	6.36	0.0	396.2	0.0000	0.0000	25
26**		7.07	7.07	0.0	487.7	0.0000	0.0000	26
27**		10.61	10.61	0.0	426.7	0.0000	0.0000	27
28**		14.14	14.14	0.0	426.7	0.0000	0.0000	28
29**		17.68	17.68	0.0	426.7	0.0000	0.0000	29
30**		21.21	21.21	0.0	426.7	0.0000	0.0000	30
31**		28.28	28.28	0.0	426.7	0.0000	0.0000	31
32**		35.36	35.36	0.0	426.7	0.0000	0.0000	32
33		0.92	0.38	0.0	106.7	0.0000	0.0000	33
34		1.85	0.77	0.0	106.7	0.0000	0.0000	34
35		2.77	1.15	0.0	106.7	0.0000	0.0000	35
36		3.70	1.53	0.0	106.7	0.0000	0.0000	36
37		4.62	1.91	0.0	106.7	0.0000	0.0000	37
38		5.54	2.30	0.0	106.7	0.0000	0.0000	38
39		6.47	2.68	0.0	106.7	0.0000	0.0000	39
40		7.39	3.06	0.0	106.7	0.0000	0.0000	40
41		8.31	3.44	0.0	106.7	0.0000	0.0000	41
42		9.24	3.83	0.0	106.7	0.0000	0.0000	42
43		13.86	5.74	0.0	106.7	0.0000	0.0000	43
44		18.48	7.65	0.0	106.7	0.0000	0.0000	44
45		23.10	9.57	0.0	106.7	0.0000	0.0000	45
46		27.72	11.48	0.0	106.7	0.0000	0.0000	46
47		36.96	15.31	0.0	106.7	0.0000	0.0000	47
48		46.19	19.13	0.0	106.7	0.0000	0.0000	48
49		1.00	0.00	0.0	106.7	0.0000	0.0000	49

50	2.00	0.00	0.0	106.7	0.0000	0.0000	50
51	3.00	0.00	0.0	106.7	0.0000	0.0000	51
52	4.00	0.00	0.0	106.7	0.0000	0.0000	52
53	5.00	0.00	0.0	106.7	0.0000	0.0000	53
54	6.00	0.00	0.0	106.7	0.0000	0.0000	54
55	7.00	0.00	0.0	106.7	0.0000	0.0000	55
56	8.00	0.00	0.0	106.7	0.0000	0.0000	56
57	9.00	0.00	0.0	106.7	0.0000	0.0000	57
58	10.00	0.00	0.0	106.7	0.0000	0.0000	58
59	15.00	0.00	0.0	106.7	0.0000	0.0000	59
60	20.00	0.00	0.0	106.7	0.0000	0.0000	60
61	25.00	0.00	0.0	106.7	0.0000	0.0000	61
62	30.00	0.00	0.0	106.7	0.0000	0.0000	62
63	40.00	0.00	0.0	106.7	0.0000	0.0000	63
64	50.00	0.00	0.0	106.7	0.0000	0.0000	64
65	0.92	-0.38	0.0	106.7	0.0000	0.0000	65
66	1.85	-0.77	0.0	106.7	0.0000	0.0000	66
67	2.77	-1.15	0.0	106.7	0.0000	0.0000	67
68	3.70	-1.53	0.0	106.7	0.0000	0.0000	68
69	4.62	-1.91	0.0	106.7	0.0000	0.0000	69
70	5.54	-2.30	0.0	106.7	0.0000	0.0000	70
71	6.47	-2.68	0.0	106.7	0.0000	0.0000	71
72	7.39	-3.06	0.0	106.7	0.0000	0.0000	72
73	8.31	-3.44	0.0	106.7	0.0000	0.0000	73
74	9.24	-3.83	0.0	106.7	0.0000	0.0000	74
75	13.86	-5.74	0.0	106.7	0.0000	0.0000	75
76	18.48	-7.65	0.0	106.7	0.0000	0.0000	76
77	23.10	-9.57	0.0	106.7	0.0000	0.0000	77
78	27.72	-11.48	0.0	106.7	0.0000	0.0000	78
79	36.96	-15.31	0.0	106.7	0.0000	0.0000	79
80	46.19	-19.13	0.0	106.7	0.0000	0.0000	80
81	0.71	-0.71	0.0	106.7	0.0000	0.0000	81
82	1.41	-1.41	0.0	106.7	0.0000	0.0000	82
83	2.12	-2.12	0.0	106.7	0.0000	0.0000	83
84	2.83	-2.83	0.0	106.7	0.0000	0.0000	84
85	3.54	-3.54	0.0	106.7	0.0000	0.0000	85
86	4.24	-4.24	0.0	106.7	0.0000	0.0000	86
87	4.95	-4.95	0.0	106.7	0.0000	0.0000	87
88	5.66	-5.66	0.0	106.7	0.0000	0.0000	88
89	6.36	-6.36	0.0	106.7	0.0000	0.0000	89
90	7.07	-7.07	0.0	106.7	0.0000	0.0000	90
91	10.61	-10.61	0.0	106.7	0.0000	0.0000	91
92	14.14	-14.14	0.0	106.7	0.0000	0.0000	92
93	17.68	-17.68	0.0	106.7	0.0000	0.0000	93
94	21.21	-21.21	0.0	106.7	0.0000	0.0000	94
95	28.28	-28.28	0.0	106.7	0.0000	0.0000	95
96	35.36	-35.36	0.0	106.7	0.0000	0.0000	96
97	0.38	-0.92	0.0	106.7	0.0000	0.0000	97
98	0.77	-1.85	0.0	106.7	0.0000	0.0000	98
99	1.15	-2.77	0.0	106.7	0.0000	0.0000	99
100	1.53	-3.70	0.0	106.7	0.0000	0.0000	100
101	1.91	-4.62	0.0	106.7	0.0000	0.0000	101
102	2.30	-5.54	0.0	106.7	0.0000	0.0000	102
103	2.68	-6.47	0.0	106.7	0.0000	0.0000	103
104	3.06	-7.39	0.0	106.7	0.0000	0.0000	104
105	3.44	-8.31	0.0	106.7	0.0000	0.0000	105
106	3.83	-9.24	0.0	106.7	0.0000	0.0000	106
107	5.74	-13.86	0.0	106.7	0.0000	0.0000	107
108	7.76	-18.48	0.0	106.7	0.0000	0.0000	108
109	9.57	-23.10	0.0	106.7	0.0000	0.0000	109
110	11.48	-27.72	0.0	106.7	0.0000	0.0000	110

111	15.31	-36.96	0.0	106.7	0.0000	0.0000	111
112	19.13	-46.19	0.0	106.7	0.0000	0.0000	112
113	0.00	-1.00	0.0	106.7	0.0000	0.0000	113
114	0.00	-2.00	0.0	106.7	0.0000	0.0000	114
115	0.00	-3.00	0.0	106.7	0.0000	0.0000	115
116	0.00	-4.00	0.0	106.7	0.0000	0.0000	116
117	0.00	-5.00	0.0	106.7	0.0000	0.0000	117
118	0.00	-6.00	0.0	106.7	0.0000	0.0000	118
119	0.00	-7.00	0.0	106.7	0.0000	0.0000	119
120	0.00	-8.00	0.0	106.7	0.0000	0.0000	120
121	0.00	-9.00	0.0	106.7	0.0000	0.0000	121
122	0.00	-10.00	0.0	106.7	0.0000	0.0000	122
123	0.00	-15.00	0.0	106.7	0.0000	0.0000	123
124	0.00	-20.00	0.0	106.7	0.0000	0.0000	124
125	0.00	-25.00	0.0	106.7	0.0000	0.0000	125
126	0.00	-30.00	0.0	106.7	0.0000	0.0000	126
127	0.00	-40.00	0.0	106.7	0.0000	0.0000	127
128	0.00	-50.00	0.0	106.7	0.0000	0.0000	128

Susitna DEIS Comments
Nenana Site Three 200 MW Coal Fired Plants
Worst Case Impacts for SO2 Using Worst Case Coal

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 84/ 1 : HOUR 9

RECEPTOR NO.	NAME	EAST COORD	NORTH COORD	RECEPTOR HT ABV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1		0.38	0.92	0.0	106.7	0.0000	0.0000	1
2		0.77	1.85	0.0	106.7	0.0000	0.0000	2
3		1.15	2.77	0.0	106.7	0.0000	0.0000	3
4		1.53	3.70	0.0	106.7	0.0000	0.0000	4
5		1.91	4.62	0.0	106.7	0.0000	0.0000	5
6		2.30	5.54	0.0	106.7	0.0000	0.0000	6
7		2.68	6.47	0.0	106.7	0.0000	0.0000	7
8		3.06	7.39	0.0	106.7	0.0000	0.0000	8
9		3.44	8.31	0.0	106.7	0.0000	0.0000	9
10		3.83	9.24	0.0	106.7	0.0000	0.0000	10
11		5.74	13.86	0.0	106.7	0.0000	0.0000	11
12		7.76	18.48	0.0	106.7	0.0000	0.0000	12
13		9.57	23.10	0.0	106.7	0.0000	0.0000	13
14		11.48	27.72	0.0	106.7	0.0000	0.0000	14
15		15.31	36.96	0.0	106.7	0.0000	0.0000	15
16		19.13	46.19	0.0	106.7	0.0000	0.0000	16
17		0.71	0.71	0.0	106.7	0.0000	0.0000	17
18		1.41	1.41	0.0	106.7	0.0000	0.0000	18
19		2.12	2.12	0.0	106.7	0.0000	0.0000	19
20		2.83	2.83	0.0	106.7	0.0000	0.0000	20
21		3.54	3.54	0.0	106.7	0.0000	0.0000	21
22		4.24	4.24	0.0	106.7	0.0000	0.0000	22
23		4.95	4.95	0.0	182.9	0.0000	0.0000	23
24		5.66	5.66	0.0	213.4	0.0000	0.0000	24
25**		6.36	6.36	0.0	396.2	0.0000	0.0000	25
26**		7.07	7.07	0.0	487.7	0.0000	0.0000	26
27**		10.61	10.61	0.0	426.7	0.0000	0.0000	27
28**		14.14	14.14	0.0	426.7	0.0000	0.0000	28
29**		17.68	17.68	0.0	426.7	0.0000	0.0000	29
30**		21.21	21.21	0.0	426.7	0.0000	0.0000	30
31**		28.28	28.28	0.0	426.7	0.0000	0.0000	31
32**		35.36	35.36	0.0	426.7	0.0000	0.0000	32
33		0.92	0.38	0.0	106.7	0.0000	0.0000	33
34		1.85	0.77	0.0	106.7	0.0000	0.0000	34
35		2.77	1.15	0.0	106.7	0.0000	0.0000	35
36		3.70	1.53	0.0	106.7	0.0000	0.0000	36
37		4.62	1.91	0.0	106.7	0.0000	0.0000	37
38		5.54	2.30	0.0	106.7	0.0000	0.0000	38
39		6.47	2.68	0.0	106.7	0.0000	0.0000	39
40		7.39	3.06	0.0	106.7	0.0000	0.0000	40
41		8.31	3.44	0.0	106.7	0.0000	0.0000	41
42		9.24	3.83	0.0	106.7	0.0000	0.0000	42
43		13.86	5.74	0.0	106.7	0.0000	0.0000	43
44		18.48	7.65	0.0	106.7	0.0000	0.0000	44
45		23.10	9.57	0.0	106.7	0.0000	0.0000	45
46		27.72	11.48	0.0	106.7	0.0000	0.0000	46
47		36.96	15.31	0.0	106.7	0.0000	0.0000	47
48		46.19	19.13	0.0	106.7	0.0000	0.0000	48
49		1.00	0.00	0.0	106.7	0.0000	0.0000	49

50	2.00	0.00	0.0	106.7	0.0000	0.0000	50
51	3.00	0.00	0.0	106.7	0.0000	0.0000	51
52	4.00	0.00	0.0	106.7	0.0000	0.0000	52
53	5.00	0.00	0.0	106.7	0.0000	0.0000	53
54	6.00	0.00	0.0	106.7	0.0000	0.0000	54
55	7.00	0.00	0.0	106.7	0.0000	0.0000	55
56	8.00	0.00	0.0	106.7	0.0000	0.0000	56
57	9.00	0.00	0.0	106.7	0.0000	0.0000	57
58	10.00	0.00	0.0	106.7	0.0000	0.0000	58
59	15.00	0.00	0.0	106.7	0.0000	0.0000	59
60	20.00	0.00	0.0	106.7	0.0000	0.0000	60
61	25.00	0.00	0.0	106.7	0.0000	0.0000	61
62	30.00	0.00	0.0	106.7	0.0000	0.0000	62
63	40.00	0.00	0.0	106.7	0.0000	0.0000	63
64	50.00	0.00	0.0	106.7	0.0000	0.0000	64
65	0.92	-0.38	0.0	106.7	0.0000	0.0000	65
66	1.85	-0.77	0.0	106.7	0.0000	0.0000	66
67	2.77	-1.15	0.0	106.7	0.0000	0.0000	67
68	3.70	-1.53	0.0	106.7	0.0000	0.0000	68
69	4.62	-1.91	0.0	106.7	0.0000	0.0000	69
70	5.54	-2.30	0.0	106.7	0.0000	0.0000	70
71	6.47	-2.68	0.0	106.7	0.0000	0.0000	71
72	7.39	-3.06	0.0	106.7	0.0000	0.0000	72
73	8.31	-3.44	0.0	106.7	0.0000	0.0000	73
74	9.24	-3.83	0.0	106.7	0.0000	0.0000	74
75	13.86	-5.74	0.0	106.7	0.0000	0.0000	75
76	18.48	-7.65	0.0	106.7	0.0000	0.0000	76
77	23.10	-9.57	0.0	106.7	0.0000	0.0000	77
78	27.72	-11.48	0.0	106.7	0.0000	0.0000	78
79	36.96	-15.31	0.0	106.7	0.0000	0.0000	79
80	46.19	-19.13	0.0	106.7	0.0000	0.0000	80
81	0.71	-0.71	0.0	106.7	0.0000	0.0000	81
82	1.41	-1.41	0.0	106.7	0.0000	0.0000	82
83	2.12	-2.12	0.0	106.7	0.0000	0.0000	83
84	2.83	-2.83	0.0	106.7	0.0000	0.0000	84
85	3.54	-3.54	0.0	106.7	0.0000	0.0000	85
86	4.24	-4.24	0.0	106.7	0.0000	0.0000	86
87	4.95	-4.95	0.0	106.7	0.0000	0.0000	87
88	5.66	-5.66	0.0	106.7	0.0000	0.0000	88
89	6.36	-6.36	0.0	106.7	0.0000	0.0000	89
90	7.07	-7.07	0.0	106.7	0.0000	0.0000	90
91	10.61	-10.61	0.0	106.7	0.0000	0.0000	91
92	14.14	-14.14	0.0	106.7	0.0000	0.0000	92
93	17.68	-17.68	0.0	106.7	0.0000	0.0000	93
94	21.21	-21.21	0.0	106.7	0.0000	0.0000	94
95	28.28	-28.28	0.0	106.7	0.0000	0.0000	95
96	35.36	-35.36	0.0	106.7	0.0000	0.0000	96
97	0.38	-0.92	0.0	106.7	0.0000	0.0000	97
98	0.77	-1.85	0.0	106.7	0.0000	0.0000	98
99	1.15	-2.77	0.0	106.7	0.0000	0.0000	99
100	1.53	-3.70	0.0	106.7	0.0000	0.0000	100
101	1.91	-4.62	0.0	106.7	0.0000	0.0000	101
102	2.30	-5.54	0.0	106.7	0.0000	0.0000	102
103	2.68	-6.47	0.0	106.7	0.0000	0.0000	103
104	3.06	-7.39	0.0	106.7	0.0000	0.0000	104
105	3.44	-8.31	0.0	106.7	0.0000	0.0000	105
106	3.83	-9.24	0.0	106.7	0.0000	0.0000	106
107	5.74	-13.86	0.0	106.7	0.0000	0.0000	107
108	7.76	-18.48	0.0	106.7	0.0000	0.0000	108
109	9.57	-23.10	0.0	106.7	0.0000	0.0000	109
110	11.48	-27.72	0.0	106.7	0.0000	0.0000	110

111	15.31	-36.96	0.0	106.7	0.0000	0.0000	111
112	19.13	-46.19	0.0	106.7	0.0000	0.0000	112
113	0.00	-1.00	0.0	106.7	0.0000	0.0000	113
114	0.00	-2.00	0.0	106.7	0.0000	0.0000	114
115	0.00	-3.00	0.0	106.7	0.0000	0.0000	115
116	0.00	-4.00	0.0	106.7	0.0000	0.0000	116
117	0.00	-5.00	0.0	106.7	0.0000	0.0000	117
118	0.00	-6.00	0.0	106.7	0.0000	0.0000	118
119	0.00	-7.00	0.0	106.7	0.0000	0.0000	119
120	0.00	-8.00	0.0	106.7	0.0000	0.0000	120
121	0.00	-9.00	0.0	106.7	0.0000	0.0000	121
122	0.00	-10.00	0.0	106.7	0.0000	0.0000	122
123	0.00	-15.00	0.0	106.7	0.0000	0.0000	123
124	0.00	-20.00	0.0	106.7	0.0000	0.0000	124
125	0.00	-25.00	0.0	106.7	0.0000	0.0000	125
126	0.00	-30.00	0.0	106.7	0.0000	0.0000	126
127	0.00	-40.00	0.0	106.7	0.0000	0.0000	127
128	0.00	-50.00	0.0	106.7	0.0000	0.0000	128

Susitna DEIS Comments
Nenana Site Three 200 MW Coal Fired Plants
Worst Case Impacts for SO2 Using Worst Case Coal

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 84/ 1 : HOUR 10

RECEPTOR NO.	NAME	EAST COORD	NORTH COORD	RECEPTOR HT ABV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1		0.38	0.92	0.0	106.7	0.0000	0.0000	16
2		0.77	1.85	0.0	106.7	0.0000	0.0000	15
3		1.15	2.77	0.0	106.7	0.0000	0.0000	14
4		1.53	3.70	0.0	106.7	0.0000	0.0001	13
5		1.91	4.62	0.0	106.7	0.0000	0.0015	12
6		2.30	5.54	0.0	106.7	0.0000	0.0095	11
7		2.68	6.47	0.0	106.7	0.0000	0.0332	10
8		3.06	7.39	0.0	106.7	0.0000	0.0794	9
9		3.44	8.31	0.0	106.7	0.0000	0.1498	8
10		3.83	9.24	0.0	106.7	0.0000	0.2408	7
11		5.74	13.86	0.0	106.7	0.0000	0.7291	6
12		7.76	18.48	0.0	106.7	0.0000	1.0694	4
13		9.57	23.10	0.0	106.7	0.0000	1.2191	2
14		11.48	27.72	0.0	106.7	0.0000	1.2530	1
15		15.31	36.96	0.0	106.7	0.0000	1.1491	3
16		19.13	46.19	0.0	106.7	0.0000	1.0095	5
17		0.71	0.71	0.0	106.7	0.0000	0.0000	17
18		1.41	1.41	0.0	106.7	0.0000	0.0000	18
19		2.12	2.12	0.0	106.7	0.0000	0.0000	19
20		2.83	2.83	0.0	106.7	0.0000	0.0000	20
21		3.54	3.54	0.0	106.7	0.0000	0.0000	21
22		4.24	4.24	0.0	106.7	0.0000	0.0000	22
23		4.95	4.95	0.0	182.9	0.0000	0.0000	23
24		5.66	5.66	0.0	213.4	0.0000	0.0000	24
25**		6.36	6.36	0.0	396.2	0.0000	0.0000	25
26**		7.07	7.07	0.0	487.7	0.0000	0.0000	26
27**		10.61	10.61	0.0	426.7	0.0000	0.0000	27
28**		14.14	14.14	0.0	426.7	0.0000	0.0000	28
29**		17.68	17.68	0.0	426.7	0.0000	0.0000	29
30**		21.21	21.21	0.0	426.7	0.0000	0.0000	30
31**		28.28	28.28	0.0	426.7	0.0000	0.0000	31
32**		35.36	35.36	0.0	426.7	0.0000	0.0000	32
33		0.92	0.38	0.0	106.7	0.0000	0.0000	33
34		1.85	0.77	0.0	106.7	0.0000	0.0000	34
35		2.77	1.15	0.0	106.7	0.0000	0.0000	35
36		3.70	1.53	0.0	106.7	0.0000	0.0000	36
37		4.62	1.91	0.0	106.7	0.0000	0.0000	37
38		5.54	2.30	0.0	106.7	0.0000	0.0000	38
39		6.47	2.68	0.0	106.7	0.0000	0.0000	39
40		7.39	3.06	0.0	106.7	0.0000	0.0000	40
41		8.31	3.44	0.0	106.7	0.0000	0.0000	41
42		9.24	3.83	0.0	106.7	0.0000	0.0000	42
43		13.86	5.74	0.0	106.7	0.0000	0.0000	43
44		18.48	7.65	0.0	106.7	0.0000	0.0000	44
45		23.10	9.57	0.0	106.7	0.0000	0.0000	45
46		27.72	11.48	0.0	106.7	0.0000	0.0000	46
47		36.96	15.31	0.0	106.7	0.0000	0.0000	47
48		46.19	19.13	0.0	106.7	0.0000	0.0000	48
49		1.00	0.00	0.0	106.7	0.0000	0.0000	49

32

50	2.00	0.00	0.0	106.7	0.0000	0.0000	50
51	3.00	0.00	0.0	106.7	0.0000	0.0000	51
52	4.00	0.00	0.0	106.7	0.0000	0.0000	52
53	5.00	0.00	0.0	106.7	0.0000	0.0000	53
54	6.00	0.00	0.0	106.7	0.0000	0.0000	54
55	7.00	0.00	0.0	106.7	0.0000	0.0000	55
56	8.00	0.00	0.0	106.7	0.0000	0.0000	56
57	9.00	0.00	0.0	106.7	0.0000	0.0000	57
58	10.00	0.00	0.0	106.7	0.0000	0.0000	58
59	15.00	0.00	0.0	106.7	0.0000	0.0000	59
60	20.00	0.00	0.0	106.7	0.0000	0.0000	60
61	25.00	0.00	0.0	106.7	0.0000	0.0000	61
62	30.00	0.00	0.0	106.7	0.0000	0.0000	62
63	40.00	0.00	0.0	106.7	0.0000	0.0000	63
64	50.00	0.00	0.0	106.7	0.0000	0.0000	64
65	0.92	-0.38	0.0	106.7	0.0000	0.0000	65
66	1.85	-0.77	0.0	106.7	0.0000	0.0000	66
67	2.77	-1.15	0.0	106.7	0.0000	0.0000	67
68	3.70	-1.53	0.0	106.7	0.0000	0.0000	68
69	4.62	-1.91	0.0	106.7	0.0000	0.0000	69
70	5.54	-2.30	0.0	106.7	0.0000	0.0000	70
71	6.47	-2.68	0.0	106.7	0.0000	0.0000	71
72	7.39	-3.06	0.0	106.7	0.0000	0.0000	72
73	8.31	-3.44	0.0	106.7	0.0000	0.0000	73
74	9.24	-3.83	0.0	106.7	0.0000	0.0000	74
75	13.86	-5.74	0.0	106.7	0.0000	0.0000	75
76	18.48	-7.65	0.0	106.7	0.0000	0.0000	76
77	23.10	-9.57	0.0	106.7	0.0000	0.0000	77
78	27.72	-11.48	0.0	106.7	0.0000	0.0000	78
79	36.96	-15.31	0.0	106.7	0.0000	0.0000	79
80	46.19	-19.13	0.0	106.7	0.0000	0.0000	80
81	0.71	-0.71	0.0	106.7	0.0000	0.0000	81
82	1.41	-1.41	0.0	106.7	0.0000	0.0000	82
83	2.12	-2.12	0.0	106.7	0.0000	0.0000	83
84	2.83	-2.83	0.0	106.7	0.0000	0.0000	84
85	3.54	-3.54	0.0	106.7	0.0000	0.0000	85
86	4.24	-4.24	0.0	106.7	0.0000	0.0000	86
87	4.95	-4.95	0.0	106.7	0.0000	0.0000	87
88	5.66	-5.66	0.0	106.7	0.0000	0.0000	88
89	6.36	-6.36	0.0	106.7	0.0000	0.0000	89
90	7.07	-7.07	0.0	106.7	0.0000	0.0000	90
91	10.61	-10.61	0.0	106.7	0.0000	0.0000	91
92	14.14	-14.14	0.0	106.7	0.0000	0.0000	92
93	17.68	-17.68	0.0	106.7	0.0000	0.0000	93
94	21.21	-21.21	0.0	106.7	0.0000	0.0000	94
95	28.28	-28.28	0.0	106.7	0.0000	0.0000	95
96	35.36	-35.36	0.0	106.7	0.0000	0.0000	96
97	0.38	-0.92	0.0	106.7	0.0000	0.0000	97
98	0.77	-1.85	0.0	106.7	0.0000	0.0000	98
99	1.15	-2.77	0.0	106.7	0.0000	0.0000	99
100	1.53	-3.70	0.0	106.7	0.0000	0.0000	100
101	1.91	-4.62	0.0	106.7	0.0000	0.0000	101
102	2.30	-5.54	0.0	106.7	0.0000	0.0000	102
103	2.68	-6.47	0.0	106.7	0.0000	0.0000	103
104	3.06	-7.39	0.0	106.7	0.0000	0.0000	104
105	3.44	-8.31	0.0	106.7	0.0000	0.0000	105
106	3.83	-9.24	0.0	106.7	0.0000	0.0000	106
107	5.74	-13.86	0.0	106.7	0.0000	0.0000	107
108	7.66	-18.48	0.0	106.7	0.0000	0.0000	108
109	9.57	-23.10	0.0	106.7	0.0000	0.0000	109
110	11.48	-27.72	0.0	106.7	0.0000	0.0000	110

111	15.31	-36.96	0.0	106.7	0.0000	0.0000	111
112	19.13	-46.19	0.0	106.7	0.0000	0.0000	112
113	0.00	-1.00	0.0	106.7	0.0000	0.0000	113
114	0.00	-2.00	0.0	106.7	0.0000	0.0000	114
115	0.00	-3.00	0.0	106.7	0.0000	0.0000	115
116	0.00	-4.00	0.0	106.7	0.0000	0.0000	116
117	0.00	-5.00	0.0	106.7	0.0000	0.0000	117
118	0.00	-6.00	0.0	106.7	0.0000	0.0000	118
119	0.00	-7.00	0.0	106.7	0.0000	0.0000	119
120	0.00	-8.00	0.0	106.7	0.0000	0.0000	120
121	0.00	-9.00	0.0	106.7	0.0000	0.0000	121
122	0.00	-10.00	0.0	106.7	0.0000	0.0000	122
123	0.00	-15.00	0.0	106.7	0.0000	0.0000	123
124	0.00	-20.00	0.0	106.7	0.0000	0.0000	124
125	0.00	-25.00	0.0	106.7	0.0000	0.0000	125
126	0.00	-30.00	0.0	106.7	0.0000	0.0000	126
127	0.00	-40.00	0.0	106.7	0.0000	0.0000	127
128	0.00	-50.00	0.0	106.7	0.0000	0.0000	128

Susitna DEIS Comments
Nenana Site Three 200 MW Coal Fired Plants
Worst Case Impacts for SO2 Using Worst Case Coal

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 84/ 1 : HOUR 11

RECEPTOR NO.	NAME	EAST COORD	NORTH COORD	RECEPTOR HT ABV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1		0.38	0.92	0.0	106.7	0.0000	0.0000	16
2		0.77	1.85	0.0	106.7	0.0000	0.0000	17
3		1.15	2.77	0.0	106.7	0.0000	0.0000	18
4		1.53	3.70	0.0	106.7	0.0000	0.0000	19
5		1.91	4.62	0.0	106.7	0.0000	0.0000	20
6		2.30	5.54	0.0	106.7	0.0000	0.0000	21
7		2.68	6.47	0.0	106.7	0.0000	0.0000	22
8		3.06	7.39	0.0	106.7	0.0000	0.0000	23
9		3.44	8.31	0.0	106.7	0.0000	0.0000	24
10		3.83	9.24	0.0	106.7	0.0000	0.0000	25
11		5.74	13.86	0.0	106.7	0.0000	0.0000	26
12		7.76	18.48	0.0	106.7	0.0000	0.0000	27
13		9.57	23.10	0.0	106.7	0.0000	0.0000	28
14		11.48	27.72	0.0	106.7	0.0000	0.0000	29
15		15.31	36.96	0.0	106.7	0.0000	0.0000	30
16		19.13	46.19	0.0	106.7	0.0000	0.0000	31
17		0.71	0.71	0.0	106.7	0.0000	0.0000	32
18		1.41	1.41	0.0	106.7	0.0000	0.0000	15
19		2.12	2.12	0.0	106.7	0.0000	0.0000	14
20		2.83	2.83	0.0	106.7	0.0000	0.0000	13
21		3.54	3.54	0.0	106.7	0.0000	0.0000	12
22		4.24	4.24	0.0	106.7	0.0000	0.0006	11
23		4.95	4.95	0.0	182.9	0.0000	0.0310	10
24		5.66	5.66	0.0	213.4	0.0000	0.1631	9
25**		6.36	6.36	0.0	396.2	0.0000	6.4975	2
26**		7.07	7.07	0.0	487.7	0.0000	12.9436	1
27**		10.61	10.61	0.0	426.7	0.0000	5.7588	3
28**		14.14	14.14	0.0	426.7	0.0000	4.1499	4
29**		17.68	17.68	0.0	426.7	0.0000	3.1477	5
30**		21.21	21.21	0.0	426.7	0.0000	2.4901	6
31**		28.28	28.28	0.0	426.7	0.0000	1.7283	7
32**		35.36	35.36	0.0	426.7	0.0000	1.3077	8
33		0.92	0.38	0.0	106.7	0.0000	0.0000	33
34		1.85	0.77	0.0	106.7	0.0000	0.0000	34
35		2.77	1.15	0.0	106.7	0.0000	0.0000	35
36		3.70	1.53	0.0	106.7	0.0000	0.0000	36
37		4.62	1.91	0.0	106.7	0.0000	0.0000	37
38		5.54	2.30	0.0	106.7	0.0000	0.0000	38
39		6.47	2.68	0.0	106.7	0.0000	0.0000	39
40		7.39	3.06	0.0	106.7	0.0000	0.0000	40
41		8.31	3.44	0.0	106.7	0.0000	0.0000	41
42		9.24	3.83	0.0	106.7	0.0000	0.0000	42
43		13.86	5.74	0.0	106.7	0.0000	0.0000	43
44		18.48	7.65	0.0	106.7	0.0000	0.0000	44
45		23.10	9.57	0.0	106.7	0.0000	0.0000	45
46		27.72	11.48	0.0	106.7	0.0000	0.0000	46
47		36.96	15.31	0.0	106.7	0.0000	0.0000	47
48		46.19	19.13	0.0	106.7	0.0000	0.0000	48
49		1.00	0.00	0.0	106.7	0.0000	0.0000	49

39

50	2.00	0.00	0.0	106.7	0.0000	0.0000	50
51	3.00	0.00	0.0	106.7	0.0000	0.0000	51
52	4.00	0.00	0.0	106.7	0.0000	0.0000	52
53	5.00	0.00	0.0	106.7	0.0000	0.0000	53
54	6.00	0.00	0.0	106.7	0.0000	0.0000	54
55	7.00	0.00	0.0	106.7	0.0000	0.0000	55
56	8.00	0.00	0.0	106.7	0.0000	0.0000	56
57	9.00	0.00	0.0	106.7	0.0000	0.0000	57
58	10.00	0.00	0.0	106.7	0.0000	0.0000	58
59	15.00	0.00	0.0	106.7	0.0000	0.0000	59
60	20.00	0.00	0.0	106.7	0.0000	0.0000	60
61	25.00	0.00	0.0	106.7	0.0000	0.0000	61
62	30.00	0.00	0.0	106.7	0.0000	0.0000	62
63	40.00	0.00	0.0	106.7	0.0000	0.0000	63
64	50.00	0.00	0.0	106.7	0.0000	0.0000	64
65	0.92	-0.38	0.0	106.7	0.0000	0.0000	65
66	1.85	-0.77	0.0	106.7	0.0000	0.0000	66
67	2.77	-1.15	0.0	106.7	0.0000	0.0000	67
68	3.70	-1.53	0.0	106.7	0.0000	0.0000	68
69	4.62	-1.91	0.0	106.7	0.0000	0.0000	69
70	5.54	-2.30	0.0	106.7	0.0000	0.0000	70
71	6.47	-2.68	0.0	106.7	0.0000	0.0000	71
72	7.39	-3.06	0.0	106.7	0.0000	0.0000	72
73	8.31	-3.44	0.0	106.7	0.0000	0.0000	73
74	9.24	-3.83	0.0	106.7	0.0000	0.0000	74
75	13.86	-5.74	0.0	106.7	0.0000	0.0000	75
76	18.48	-7.65	0.0	106.7	0.0000	0.0000	76
77	23.10	-9.57	0.0	106.7	0.0000	0.0000	77
78	27.72	-11.48	0.0	106.7	0.0000	0.0000	78
79	36.96	-15.31	0.0	106.7	0.0000	0.0000	79
80	46.19	-19.13	0.0	106.7	0.0000	0.0000	80
81	0.71	-0.71	0.0	106.7	0.0000	0.0000	81
82	1.41	-1.41	0.0	106.7	0.0000	0.0000	82
83	2.12	-2.12	0.0	106.7	0.0000	0.0000	83
84	2.83	-2.83	0.0	106.7	0.0000	0.0000	84
85	3.54	-3.54	0.0	106.7	0.0000	0.0000	85
86	4.24	-4.24	0.0	106.7	0.0000	0.0000	86
87	4.95	-4.95	0.0	106.7	0.0000	0.0000	87
88	5.66	-5.66	0.0	106.7	0.0000	0.0000	88
89	6.36	-6.36	0.0	106.7	0.0000	0.0000	89
90	7.07	-7.07	0.0	106.7	0.0000	0.0000	90
91	10.61	-10.61	0.0	106.7	0.0000	0.0000	91
92	14.14	-14.14	0.0	106.7	0.0000	0.0000	92
93	17.68	-17.68	0.0	106.7	0.0000	0.0000	93
94	21.21	-21.21	0.0	106.7	0.0000	0.0000	94
95	28.28	-28.28	0.0	106.7	0.0000	0.0000	95
96	35.36	-35.36	0.0	106.7	0.0000	0.0000	96
97	0.38	-0.92	0.0	106.7	0.0000	0.0000	97
98	0.77	-1.85	0.0	106.7	0.0000	0.0000	98
99	1.15	-2.77	0.0	106.7	0.0000	0.0000	99
100	1.53	-3.70	0.0	106.7	0.0000	0.0000	100
101	1.91	-4.62	0.0	106.7	0.0000	0.0000	101
102	2.30	-5.54	0.0	106.7	0.0000	0.0000	102
103	2.68	-6.47	0.0	106.7	0.0000	0.0000	103
104	3.06	-7.39	0.0	106.7	0.0000	0.0000	104
105	3.44	-8.31	0.0	106.7	0.0000	0.0000	105
106	3.83	-9.24	0.0	106.7	0.0000	0.0000	106
107	5.74	-13.86	0.0	106.7	0.0000	0.0000	107
108	7.76	-18.48	0.0	106.7	0.0000	0.0000	108
109	9.57	-23.10	0.0	106.7	0.0000	0.0000	109
110	11.48	-27.72	0.0	106.7	0.0000	0.0000	110

36

111	15.31	-36.96	0.0	106.7	0.0000	0.0000	111
112	19.13	-46.19	0.0	106.7	0.0000	0.0000	112
113	0.00	-1.00	0.0	106.7	0.0000	0.0000	113
114	0.00	-2.00	0.0	106.7	0.0000	0.0000	114
115	0.00	-3.00	0.0	106.7	0.0000	0.0000	115
116	0.00	-4.00	0.0	106.7	0.0000	0.0000	116
117	0.00	-5.00	0.0	106.7	0.0000	0.0000	117
118	0.00	-6.00	0.0	106.7	0.0000	0.0000	118
119	0.00	-7.00	0.0	106.7	0.0000	0.0000	119
120	0.00	-8.00	0.0	106.7	0.0000	0.0000	120
121	0.00	-9.00	0.0	106.7	0.0000	0.0000	121
122	0.00	-10.00	0.0	106.7	0.0000	0.0000	122
123	0.00	-15.00	0.0	106.7	0.0000	0.0000	123
124	0.00	-20.00	0.0	106.7	0.0000	0.0000	124
125	0.00	-25.00	0.0	106.7	0.0000	0.0000	125
126	0.00	-30.00	0.0	106.7	0.0000	0.0000	126
127	0.00	-40.00	0.0	106.7	0.0000	0.0000	127
128	0.00	-50.00	0.0	106.7	0.0000	0.0000	128

Susitna DEIS Comments
Nenana Site Three 200 MW Coal Fired Plants
Worst Case Impacts for SO2 Using Worst Case Coal

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 84/ 1 : HOUR 12

RECEPTOR NO.	NAME	EAST COORD	NORTH COORD	RECEPTOR HT ABV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1		0.38	0.92	0.0	106.7	0.0000	0.0000	16
2		0.77	1.85	0.0	106.7	0.0000	0.0000	17
3		1.15	2.77	0.0	106.7	0.0000	0.0000	18
4		1.53	3.70	0.0	106.7	0.0000	0.0000	19
5		1.91	4.62	0.0	106.7	0.0000	0.0000	20
6		2.30	5.54	0.0	106.7	0.0000	0.0000	21
7		2.68	6.47	0.0	106.7	0.0000	0.0000	22
8		3.06	7.39	0.0	106.7	0.0000	0.0000	23
9		3.44	8.31	0.0	106.7	0.0000	0.0000	24
10		3.83	9.24	0.0	106.7	0.0000	0.0000	25
11		5.74	13.86	0.0	106.7	0.0000	0.0000	26
12		7.76	18.48	0.0	106.7	0.0000	0.0000	27
13		9.57	23.10	0.0	106.7	0.0000	0.0000	28
14		11.48	27.72	0.0	106.7	0.0000	0.0000	29
15		15.31	36.96	0.0	106.7	0.0000	0.0000	30
16		19.13	46.19	0.0	106.7	0.0000	0.0000	31
17		0.71	0.71	0.0	106.7	0.0000	0.0000	32
18		1.41	1.41	0.0	106.7	0.0000	0.0000	33
19		2.12	2.12	0.0	106.7	0.0000	0.0000	34
20		2.83	2.83	0.0	106.7	0.0000	0.0000	35
21		3.54	3.54	0.0	106.7	0.0000	0.0000	36
22		4.24	4.24	0.0	106.7	0.0000	0.0000	37
23		4.95	4.95	0.0	182.9	0.0000	0.0000	38
24		5.66	5.66	0.0	213.4	0.0000	0.0000	39
25**		6.36	6.36	0.0	396.2	0.0000	0.0000	40
26**		7.07	7.07	0.0	487.7	0.0000	0.0000	41
27**		10.61	10.61	0.0	426.7	0.0000	0.0000	42
28**		14.14	14.14	0.0	426.7	0.0000	0.0000	43
29**		17.68	17.68	0.0	426.7	0.0000	0.0000	44
30**		21.21	21.21	0.0	426.7	0.0000	0.0000	45
31**		28.28	28.28	0.0	426.7	0.0000	0.0000	46
32**		35.36	35.36	0.0	426.7	0.0000	0.0000	47
33		0.92	0.38	0.0	106.7	0.0000	0.0000	48
34		1.85	0.77	0.0	106.7	0.0000	0.0000	15
35		2.77	1.15	0.0	106.7	0.0000	0.0000	14
36		3.70	1.53	0.0	106.7	0.0000	0.0003	13
37		4.62	1.91	0.0	106.7	0.0000	0.0046	12
38		5.54	2.30	0.0	106.7	0.0000	0.0235	11
39		6.47	2.68	0.0	106.7	0.0000	0.0690	10
40		7.39	3.06	0.0	106.7	0.0000	0.1461	9
41		8.31	3.44	0.0	106.7	0.0000	0.2512	8
42		9.24	3.83	0.0	106.7	0.0000	0.3755	7
43		13.86	5.74	0.0	106.7	0.0000	0.9341	6
44		18.48	7.65	0.0	106.7	0.0000	1.2451	3
45		23.10	9.57	0.0	106.7	0.0000	1.3468	1
46		27.72	11.48	0.0	106.7	0.0000	1.3363	2
47		36.96	15.31	0.0	106.7	0.0000	1.1783	4
48		46.19	19.13	0.0	106.7	0.0000	1.0111	5
49		1.00	0.00	0.0	106.7	0.0000	0.0000	49

50	2.00	0.00	0.0	106.7	0.0000	0.0000	50
51	3.00	0.00	0.0	106.7	0.0000	0.0000	51
52	4.00	0.00	0.0	106.7	0.0000	0.0000	52
53	5.00	0.00	0.0	106.7	0.0000	0.0000	53
54	6.00	0.00	0.0	106.7	0.0000	0.0000	54
55	7.00	0.00	0.0	106.7	0.0000	0.0000	55
56	8.00	0.00	0.0	106.7	0.0000	0.0000	56
57	9.00	0.00	0.0	106.7	0.0000	0.0000	57
58	10.00	0.00	0.0	106.7	0.0000	0.0000	58
59	15.00	0.00	0.0	106.7	0.0000	0.0000	59
60	20.00	0.00	0.0	106.7	0.0000	0.0000	60
61	25.00	0.00	0.0	106.7	0.0000	0.0000	61
62	30.00	0.00	0.0	106.7	0.0000	0.0000	62
63	40.00	0.00	0.0	106.7	0.0000	0.0000	63
64	50.00	0.00	0.0	106.7	0.0000	0.0000	64
65	0.92	-0.38	0.0	106.7	0.0000	0.0000	65
66	1.85	-0.77	0.0	106.7	0.0000	0.0000	66
67	2.77	-1.15	0.0	106.7	0.0000	0.0000	67
68	3.70	-1.53	0.0	106.7	0.0000	0.0000	68
69	4.62	-1.91	0.0	106.7	0.0000	0.0000	69
70	5.54	-2.30	0.0	106.7	0.0000	0.0000	70
71	6.47	-2.68	0.0	106.7	0.0000	0.0000	71
72	7.39	-3.06	0.0	106.7	0.0000	0.0000	72
73	8.31	-3.44	0.0	106.7	0.0000	0.0000	73
74	9.24	-3.83	0.0	106.7	0.0000	0.0000	74
75	13.86	-5.74	0.0	106.7	0.0000	0.0000	75
76	18.48	-7.65	0.0	106.7	0.0000	0.0000	76
77	23.10	-9.57	0.0	106.7	0.0000	0.0000	77
78	27.72	-11.48	0.0	106.7	0.0000	0.0000	78
79	36.96	-15.31	0.0	106.7	0.0000	0.0000	79
80	46.19	-19.13	0.0	106.7	0.0000	0.0000	80
81	0.71	-0.71	0.0	106.7	0.0000	0.0000	81
82	1.41	-1.41	0.0	106.7	0.0000	0.0000	82
83	2.12	-2.12	0.0	106.7	0.0000	0.0000	83
84	2.83	-2.83	0.0	106.7	0.0000	0.0000	84
85	3.54	-3.54	0.0	106.7	0.0000	0.0000	85
86	4.24	-4.24	0.0	106.7	0.0000	0.0000	86
87	4.95	-4.95	0.0	106.7	0.0000	0.0000	87
88	5.66	-5.66	0.0	106.7	0.0000	0.0000	88
89	6.36	-6.36	0.0	106.7	0.0000	0.0000	89
90	7.07	-7.07	0.0	106.7	0.0000	0.0000	90
91	10.61	-10.61	0.0	106.7	0.0000	0.0000	91
92	14.14	-14.14	0.0	106.7	0.0000	0.0000	92
93	17.68	-17.68	0.0	106.7	0.0000	0.0000	93
94	21.21	-21.21	0.0	106.7	0.0000	0.0000	94
95	28.28	-28.28	0.0	106.7	0.0000	0.0000	95
96	35.36	-35.36	0.0	106.7	0.0000	0.0000	96
97	0.38	-0.92	0.0	106.7	0.0000	0.0000	97
98	0.77	-1.85	0.0	106.7	0.0000	0.0000	98
99	1.15	-2.77	0.0	106.7	0.0000	0.0000	99
100	1.53	-3.70	0.0	106.7	0.0000	0.0000	100
101	1.91	-4.62	0.0	106.7	0.0000	0.0000	101
102	2.30	-5.54	0.0	106.7	0.0000	0.0000	102
103	2.68	-6.47	0.0	106.7	0.0000	0.0000	103
104	3.06	-7.39	0.0	106.7	0.0000	0.0000	104
105	3.44	-8.31	0.0	106.7	0.0000	0.0000	105
106	3.83	-9.24	0.0	106.7	0.0000	0.0000	106
107	5.74	-13.86	0.0	106.7	0.0000	0.0000	107
108	7.76	-18.48	0.0	106.7	0.0000	0.0000	108
109	9.57	-23.10	0.0	106.7	0.0000	0.0000	109
110	11.48	-27.72	0.0	106.7	0.0000	0.0000	110

111	15.31	-36.96	0.0	106.7	0.0000	0.0000	111
112	19.13	-46.19	0.0	106.7	0.0000	0.0000	112
113	0.00	-1.00	0.0	106.7	0.0000	0.0000	113
114	0.00	-2.00	0.0	106.7	0.0000	0.0000	114
115	0.00	-3.00	0.0	106.7	0.0000	0.0000	115
116	0.00	-4.00	0.0	106.7	0.0000	0.0000	116
117	0.00	-5.00	0.0	106.7	0.0000	0.0000	117
118	0.00	-6.00	0.0	106.7	0.0000	0.0000	118
119	0.00	-7.00	0.0	106.7	0.0000	0.0000	119
120	0.00	-8.00	0.0	106.7	0.0000	0.0000	120
121	0.00	-9.00	0.0	106.7	0.0000	0.0000	121
122	0.00	-10.00	0.0	106.7	0.0000	0.0000	122
123	0.00	-15.00	0.0	106.7	0.0000	0.0000	123
124	0.00	-20.00	0.0	106.7	0.0000	0.0000	124
125	0.00	-25.00	0.0	106.7	0.0000	0.0000	125
126	0.00	-30.00	0.0	106.7	0.0000	0.0000	126
127	0.00	-40.00	0.0	106.7	0.0000	0.0000	127
128	0.00	-50.00	0.0	106.7	0.0000	0.0000	128

Susitna DEIS Comments
Nenana Site Three 200 MW Coal Fired Plants
Worst Case Impacts for SO2 Using Worst Case Coal

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 84/ 1 : HOUR 13

RECEPTOR NO.	NAME	EAST COORD	NORTH COORD	RECEPTOR HT ABV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1		0.38	0.92	0.0	106.7	0.0000	0.0000	15
2		0.77	1.85	0.0	106.7	0.0000	0.0000	16
3		1.15	2.77	0.0	106.7	0.0000	0.0000	17
4		1.53	3.70	0.0	106.7	0.0000	0.0000	18
5		1.91	4.62	0.0	106.7	0.0000	0.0000	19
6		2.30	5.54	0.0	106.7	0.0000	0.0000	20
7		2.68	6.47	0.0	106.7	0.0000	0.0000	21
8		3.06	7.39	0.0	106.7	0.0000	0.0000	22
9		3.44	8.31	0.0	106.7	0.0000	0.0000	23
10		3.83	9.24	0.0	106.7	0.0000	0.0000	24
11		5.74	13.86	0.0	106.7	0.0000	0.0000	25
12		7.76	18.48	0.0	106.7	0.0000	0.0000	26
13		9.57	23.10	0.0	106.7	0.0000	0.0000	27
14		11.48	27.72	0.0	106.7	0.0000	0.0000	28
15		15.31	36.96	0.0	106.7	0.0000	0.0000	29
16		19.13	46.19	0.0	106.7	0.0000	0.0000	30
17		0.71	0.71	0.0	106.7	0.0000	0.0000	31
18		1.41	1.41	0.0	106.7	0.0000	0.0000	32
19		2.12	2.12	0.0	106.7	0.0000	0.0000	33
20		2.83	2.83	0.0	106.7	0.0000	0.0000	34
21		3.54	3.54	0.0	106.7	0.0000	0.0000	35
22		4.24	4.24	0.0	106.7	0.0000	0.0000	36
23		4.95	4.95	0.0	182.9	0.0000	0.0000	37
24		5.66	5.66	0.0	213.4	0.0000	0.0000	38
25**		6.36	6.36	0.0	396.2	0.0000	0.0000	39
26**		7.07	7.07	0.0	487.7	0.0000	0.0000	40
27**		10.61	10.61	0.0	426.7	0.0000	0.0000	41
28**		14.14	14.14	0.0	426.7	0.0000	0.0000	42
29**		17.68	17.68	0.0	426.7	0.0000	0.0000	43
30**		21.21	21.21	0.0	426.7	0.0000	0.0000	44
31**		28.28	28.28	0.0	426.7	0.0000	0.0000	45
32**		35.36	35.36	0.0	426.7	0.0000	0.0000	46
33		0.92	0.38	0.0	106.7	0.0000	0.0000	47
34		1.85	0.77	0.0	106.7	0.0000	0.0000	48
35		2.77	1.15	0.0	106.7	0.0000	0.0000	49
36		3.70	1.53	0.0	106.7	0.0000	0.0000	50
37		4.62	1.91	0.0	106.7	0.0000	0.0000	51
38		5.54	2.30	0.0	106.7	0.0000	0.0000	52
39		6.47	2.68	0.0	106.7	0.0000	0.0000	53
40		7.39	3.06	0.0	106.7	0.0000	0.0000	54
41		8.31	3.44	0.0	106.7	0.0000	0.0000	55
42		9.24	3.83	0.0	106.7	0.0000	0.0000	56
43		13.86	5.74	0.0	106.7	0.0000	0.0000	57
44		18.48	7.65	0.0	106.7	0.0000	0.0000	58
45		23.10	9.57	0.0	106.7	0.0000	0.0000	59
46		27.72	11.48	0.0	106.7	0.0000	0.0000	60
47		36.96	15.31	0.0	106.7	0.0000	0.0000	61
48		46.19	19.13	0.0	106.7	0.0000	0.0000	62
49		1.00	0.00	0.0	106.7	0.0000	0.0000	63

50	2.00	0.00	0.0	106.7	0.0000	0.0000	64
51	3.00	0.00	0.0	106.7	0.0000	0.0000	14
52	4.00	0.00	0.0	106.7	0.0000	0.0000	13
53	5.00	0.00	0.0	106.7	0.0000	0.0000	12
54	6.00	0.00	0.0	106.7	0.0000	0.0002	11
55	7.00	0.00	0.0	106.7	0.0000	0.0011	10
56	8.00	0.00	0.0	106.7	0.0000	0.0047	9
57	9.00	0.00	0.0	106.7	0.0000	0.0134	8
58	10.00	0.00	0.0	106.7	0.0000	0.0298	7
59	15.00	0.00	0.0	106.7	0.0000	0.2162	6
60	20.00	0.00	0.0	106.7	0.0000	0.4806	5
61	25.00	0.00	0.0	106.7	0.0000	0.6994	4
62	30.00	0.00	0.0	106.7	0.0000	0.8412	3
63	40.00	0.00	0.0	106.7	0.0000	0.9190	1
64	50.00	0.00	0.0	106.7	0.0000	0.8962	2
65	0.92	-0.38	0.0	106.7	0.0000	0.0000	65
66	1.85	-0.77	0.0	106.7	0.0000	0.0000	66
67	2.77	-1.15	0.0	106.7	0.0000	0.0000	67
68	3.70	-1.53	0.0	106.7	0.0000	0.0000	68
69	4.62	-1.91	0.0	106.7	0.0000	0.0000	69
70	5.54	-2.30	0.0	106.7	0.0000	0.0000	70
71	6.47	-2.68	0.0	106.7	0.0000	0.0000	71
72	7.39	-3.06	0.0	106.7	0.0000	0.0000	72
73	8.31	-3.44	0.0	106.7	0.0000	0.0000	73
74	9.24	-3.83	0.0	106.7	0.0000	0.0000	74
75	13.86	-5.74	0.0	106.7	0.0000	0.0000	75
76	18.48	-7.65	0.0	106.7	0.0000	0.0000	76
77	23.10	-9.57	0.0	106.7	0.0000	0.0000	77
78	27.72	-11.48	0.0	106.7	0.0000	0.0000	78
79	36.96	-15.31	0.0	106.7	0.0000	0.0000	79
80	46.19	-19.13	0.0	106.7	0.0000	0.0000	80
81	0.71	-0.71	0.0	106.7	0.0000	0.0000	81
82	1.41	-1.41	0.0	106.7	0.0000	0.0000	82
83	2.12	-2.12	0.0	106.7	0.0000	0.0000	83
84	2.83	-2.83	0.0	106.7	0.0000	0.0000	84
85	3.54	-3.54	0.0	106.7	0.0000	0.0000	85
86	4.24	-4.24	0.0	106.7	0.0000	0.0000	86
87	4.95	-4.95	0.0	106.7	0.0000	0.0000	87
88	5.66	-5.66	0.0	106.7	0.0000	0.0000	88
89	6.36	-6.36	0.0	106.7	0.0000	0.0000	89
90	7.07	-7.07	0.0	106.7	0.0000	0.0000	90
91	10.61	-10.61	0.0	106.7	0.0000	0.0000	91
92	14.14	-14.14	0.0	106.7	0.0000	0.0000	92
93	17.68	-17.68	0.0	106.7	0.0000	0.0000	93
94	21.21	-21.21	0.0	106.7	0.0000	0.0000	94
95	28.28	-28.28	0.0	106.7	0.0000	0.0000	95
96	35.36	-35.36	0.0	106.7	0.0000	0.0000	96
97	0.38	-0.92	0.0	106.7	0.0000	0.0000	97
98	0.77	-1.85	0.0	106.7	0.0000	0.0000	98
99	1.15	-2.77	0.0	106.7	0.0000	0.0000	99
100	1.53	-3.70	0.0	106.7	0.0000	0.0000	100
101	1.91	-4.62	0.0	106.7	0.0000	0.0000	101
102	2.30	-5.54	0.0	106.7	0.0000	0.0000	102
103	2.68	-6.47	0.0	106.7	0.0000	0.0000	103
104	3.06	-7.39	0.0	106.7	0.0000	0.0000	104
105	3.44	-8.31	0.0	106.7	0.0000	0.0000	105
106	3.83	-9.24	0.0	106.7	0.0000	0.0000	106
107	5.74	-13.86	0.0	106.7	0.0000	0.0000	107
108	7.76	-18.48	0.0	106.7	0.0000	0.0000	108
109	9.57	-23.10	0.0	106.7	0.0000	0.0000	109
110	11.48	-27.72	0.0	106.7	0.0000	0.0000	110

24

111	15.31	-36.96	0.0	106.7	0.0000	0.0000	111
112	19.13	-46.19	0.0	106.7	0.0000	0.0000	112
113	0.00	-1.00	0.0	106.7	0.0000	0.0000	113
114	0.00	-2.00	0.0	106.7	0.0000	0.0000	114
115	0.00	-3.00	0.0	106.7	0.0000	0.0000	115
116	0.00	-4.00	0.0	106.7	0.0000	0.0000	116
117	0.00	-5.00	0.0	106.7	0.0000	0.0000	117
118	0.00	-6.00	0.0	106.7	0.0000	0.0000	118
119	0.00	-7.00	0.0	106.7	0.0000	0.0000	119
120	0.00	-8.00	0.0	106.7	0.0000	0.0000	120
121	0.00	-9.00	0.0	106.7	0.0000	0.0000	121
122	0.00	-10.00	0.0	106.7	0.0000	0.0000	122
123	0.00	-15.00	0.0	106.7	0.0000	0.0000	123
124	0.00	-20.00	0.0	106.7	0.0000	0.0000	124
125	0.00	-25.00	0.0	106.7	0.0000	0.0000	125
126	0.00	-30.00	0.0	106.7	0.0000	0.0000	126
127	0.00	-40.00	0.0	106.7	0.0000	0.0000	127
128	0.00	-50.00	0.0	106.7	0.0000	0.0000	128

Susitna DEIS Comments
Nenana Site Three 200 MW Coal Fired Plants
Worst Case Impacts for SO2 Using Worst Case Coal

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 84/ 1 : HOUR 14

RECEPTOR NO.	NAME	EAST COORD	NORTH COORD	RECEPTOR HT ABV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1		0.38	0.92	0.0	106.7	0.0000	0.0000	15
2		0.77	1.85	0.0	106.7	0.0000	0.0000	16
3		1.15	2.77	0.0	106.7	0.0000	0.0000	17
4		1.53	3.70	0.0	106.7	0.0000	0.0000	18
5		1.91	4.62	0.0	106.7	0.0000	0.0000	19
6		2.30	5.54	0.0	106.7	0.0000	0.0000	20
7		2.68	6.47	0.0	106.7	0.0000	0.0000	21
8		3.06	7.39	0.0	106.7	0.0000	0.0000	22
9		3.44	8.31	0.0	106.7	0.0000	0.0000	23
10		3.83	9.24	0.0	106.7	0.0000	0.0000	24
11		5.74	13.86	0.0	106.7	0.0000	0.0000	25
12		7.76	18.48	0.0	106.7	0.0000	0.0000	26
13		9.57	23.10	0.0	106.7	0.0000	0.0000	27
14		11.48	27.72	0.0	106.7	0.0000	0.0000	28
15		15.31	36.96	0.0	106.7	0.0000	0.0000	29
16		19.13	46.19	0.0	106.7	0.0000	0.0000	30
17		0.71	0.71	0.0	106.7	0.0000	0.0000	31
18		1.41	1.41	0.0	106.7	0.0000	0.0000	32
19		2.12	2.12	0.0	106.7	0.0000	0.0000	33
20		2.83	2.83	0.0	106.7	0.0000	0.0000	34
21		3.54	3.54	0.0	106.7	0.0000	0.0000	35
22		4.24	4.24	0.0	106.7	0.0000	0.0000	36
23		4.95	4.95	0.0	182.9	0.0000	0.0000	37
24		5.66	5.66	0.0	213.4	0.0000	0.0000	38
25**		6.36	6.36	0.0	396.2	0.0000	0.0000	39
26**		7.07	7.07	0.0	487.7	0.0000	0.0000	40
27**		10.61	10.61	0.0	426.7	0.0000	0.0000	41
28**		14.14	14.14	0.0	426.7	0.0000	0.0000	42
29**		17.68	17.68	0.0	426.7	0.0000	0.0000	43
30**		21.21	21.21	0.0	426.7	0.0000	0.0000	44
31**		28.28	28.28	0.0	426.7	0.0000	0.0000	45
32**		35.36	35.36	0.0	426.7	0.0000	0.0000	46
33		0.92	0.38	0.0	106.7	0.0000	0.0000	47
34		1.85	0.77	0.0	106.7	0.0000	0.0000	48
35		2.77	1.15	0.0	106.7	0.0000	0.0000	49
36		3.70	1.53	0.0	106.7	0.0000	0.0000	50
37		4.62	1.91	0.0	106.7	0.0000	0.0000	51
38		5.54	2.30	0.0	106.7	0.0000	0.0000	52
39		6.47	2.68	0.0	106.7	0.0000	0.0000	53
40		7.39	3.06	0.0	106.7	0.0000	0.0000	54
41		8.31	3.44	0.0	106.7	0.0000	0.0000	55
42		9.24	3.83	0.0	106.7	0.0000	0.0000	56
43		13.86	5.74	0.0	106.7	0.0000	0.0000	57
44		18.48	7.65	0.0	106.7	0.0000	0.0000	58
45		23.10	9.57	0.0	106.7	0.0000	0.0000	59
46		27.72	11.48	0.0	106.7	0.0000	0.0000	60
47		36.96	15.31	0.0	106.7	0.0000	0.0000	61
48		46.19	19.13	0.0	106.7	0.0000	0.0000	62
49		1.00	0.00	0.0	106.7	0.0000	0.0000	63

50	2.00	0.00	0.0	106.7	0.0000	0.0000	64
51	3.00	0.00	0.0	106.7	0.0000	0.0000	65
52	4.00	0.00	0.0	106.7	0.0000	0.0000	66
53	5.00	0.00	0.0	106.7	0.0000	0.0000	67
54	6.00	0.00	0.0	106.7	0.0000	0.0000	68
55	7.00	0.00	0.0	106.7	0.0000	0.0000	69
56	8.00	0.00	0.0	106.7	0.0000	0.0000	70
57	9.00	0.00	0.0	106.7	0.0000	0.0000	71
58	10.00	0.00	0.0	106.7	0.0000	0.0000	72
59	15.00	0.00	0.0	106.7	0.0000	0.0000	73
60	20.00	0.00	0.0	106.7	0.0000	0.0000	74
61	25.00	0.00	0.0	106.7	0.0000	0.0000	75
62	30.00	0.00	0.0	106.7	0.0000	0.0000	76
63	40.00	0.00	0.0	106.7	0.0000	0.0000	77
64	50.00	0.00	0.0	106.7	0.0000	0.0000	78
65	0.92	-0.38	0.0	106.7	0.0000	0.0000	79
66	1.85	-0.77	0.0	106.7	0.0000	0.0000	80
67	2.77	-1.15	0.0	106.7	0.0000	0.0000	14
68	3.70	-1.53	0.0	106.7	0.0000	0.0000	13
69	4.62	-1.91	0.0	106.7	0.0000	0.0000	12
70	5.54	-2.30	0.0	106.7	0.0000	0.0001	11
71	6.47	-2.68	0.0	106.7	0.0000	0.0006	10
72	7.39	-3.06	0.0	106.7	0.0000	0.0027	9
73	8.31	-3.44	0.0	106.7	0.0000	0.0083	8
74	9.24	-3.83	0.0	106.7	0.0000	0.0195	7
75	13.86	-5.74	0.0	106.7	0.0000	0.1683	6
76	18.48	-7.65	0.0	106.7	0.0000	0.4060	5
77	23.10	-9.57	0.0	106.7	0.0000	0.6193	4
78	27.72	-11.48	0.0	106.7	0.0000	0.7681	3
79	36.96	-15.31	0.0	106.7	0.0000	0.8682	1
80	46.19	-19.13	0.0	106.7	0.0000	0.8640	2
81	0.71	-0.71	0.0	106.7	0.0000	0.0000	81
82	1.41	-1.41	0.0	106.7	0.0000	0.0000	82
83	2.12	-2.12	0.0	106.7	0.0000	0.0000	83
84	2.83	-2.83	0.0	106.7	0.0000	0.0000	84
85	3.54	-3.54	0.0	106.7	0.0000	0.0000	85
86	4.24	-4.24	0.0	106.7	0.0000	0.0000	86
87	4.95	-4.95	0.0	106.7	0.0000	0.0000	87
88	5.66	-5.66	0.0	106.7	0.0000	0.0000	88
89	6.36	-6.36	0.0	106.7	0.0000	0.0000	89
90	7.07	-7.07	0.0	106.7	0.0000	0.0000	90
91	10.61	-10.61	0.0	106.7	0.0000	0.0000	91
92	14.14	-14.14	0.0	106.7	0.0000	0.0000	92
93	17.68	-17.68	0.0	106.7	0.0000	0.0000	93
94	21.21	-21.21	0.0	106.7	0.0000	0.0000	94
95	28.28	-28.28	0.0	106.7	0.0000	0.0000	95
96	35.36	-35.36	0.0	106.7	0.0000	0.0000	96
97	0.38	-0.92	0.0	106.7	0.0000	0.0000	97
98	0.77	-1.85	0.0	106.7	0.0000	0.0000	98
99	1.15	-2.77	0.0	106.7	0.0000	0.0000	99
100	1.53	-3.70	0.0	106.7	0.0000	0.0000	100
101	1.91	-4.62	0.0	106.7	0.0000	0.0000	101
102	2.30	-5.54	0.0	106.7	0.0000	0.0000	102
103	2.68	-6.47	0.0	106.7	0.0000	0.0000	103
104	3.06	-7.39	0.0	106.7	0.0000	0.0000	104
105	3.44	-8.31	0.0	106.7	0.0000	0.0000	105
106	3.83	-9.24	0.0	106.7	0.0000	0.0000	106
107	5.74	-13.86	0.0	106.7	0.0000	0.0000	107
108	7.76	-18.48	0.0	106.7	0.0000	0.0000	108
109	9.57	-23.10	0.0	106.7	0.0000	0.0000	109
110	11.48	-27.72	0.0	106.7	0.0000	0.0000	110

111	15.31	-36.96	0.0	106.7	0.0000	0.0000	111
112	19.13	-46.19	0.0	106.7	0.0000	0.0000	112
113	0.00	-1.00	0.0	106.7	0.0000	0.0000	113
114	0.00	-2.00	0.0	106.7	0.0000	0.0000	114
115	0.00	-3.00	0.0	106.7	0.0000	0.0000	115
116	0.00	-4.00	0.0	106.7	0.0000	0.0000	116
117	0.00	-5.00	0.0	106.7	0.0000	0.0000	117
118	0.00	-6.00	0.0	106.7	0.0000	0.0000	118
119	0.00	-7.00	0.0	106.7	0.0000	0.0000	119
120	0.00	-8.00	0.0	106.7	0.0000	0.0000	120
121	0.00	-9.00	0.0	106.7	0.0000	0.0000	121
122	0.00	-10.00	0.0	106.7	0.0000	0.0000	122
123	0.00	-15.00	0.0	106.7	0.0000	0.0000	123
124	0.00	-20.00	0.0	106.7	0.0000	0.0000	124
125	0.00	-25.00	0.0	106.7	0.0000	0.0000	125
126	0.00	-30.00	0.0	106.7	0.0000	0.0000	126
127	0.00	-40.00	0.0	106.7	0.0000	0.0000	127
128	0.00	-50.00	0.0	106.7	0.0000	0.0000	128

Susitna DEIS Comments
Nenana Site Three 200 MW Coal Fired Plants
Worst Case Impacts for SO2 Using Worst Case Coal

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 84/ 1 : HOUR 15

RECEPTOR NO. NAME	EAST COORD	NORTH COORD	RECEPTOR HT ABV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1	0.38	0.92	0.0	106.7	0.0000	0.0000	16
2	0.77	1.85	0.0	106.7	0.0000	0.0000	17
3	1.15	2.77	0.0	106.7	0.0000	0.0000	18
4	1.53	3.70	0.0	106.7	0.0000	0.0000	19
5	1.91	4.62	0.0	106.7	0.0000	0.0000	20
6	2.30	5.54	0.0	106.7	0.0000	0.0000	21
7	2.68	6.47	0.0	106.7	0.0000	0.0000	22
8	3.06	7.39	0.0	106.7	0.0000	0.0000	23
9	3.44	8.31	0.0	106.7	0.0000	0.0000	24
10	3.83	9.24	0.0	106.7	0.0000	0.0000	25
11	5.74	13.86	0.0	106.7	0.0000	0.0000	26
12	7.76	18.48	0.0	106.7	0.0000	0.0000	27
13	9.57	23.10	0.0	106.7	0.0000	0.0000	28
14	11.48	27.72	0.0	106.7	0.0000	0.0000	29
15	15.31	36.96	0.0	106.7	0.0000	0.0000	30
16	19.13	46.19	0.0	106.7	0.0000	0.0000	31
17	0.71	0.71	0.0	106.7	0.0000	0.0000	32
18	1.41	1.41	0.0	106.7	0.0000	0.0000	33
19	2.12	2.12	0.0	106.7	0.0000	0.0000	34
20	2.83	2.83	0.0	106.7	0.0000	0.0000	35
21	3.54	3.54	0.0	106.7	0.0000	0.0000	36
22	4.24	4.24	0.0	106.7	0.0000	0.0000	37
23	4.95	4.95	0.0	182.9	0.0000	0.0000	38
24	5.66	5.66	0.0	213.4	0.0000	0.0000	39
25**	6.36	6.36	0.0	396.2	0.0000	0.0000	40
26**	7.07	7.07	0.0	487.7	0.0000	0.0000	41
27**	10.61	10.61	0.0	426.7	0.0000	0.0000	42
28**	14.14	14.14	0.0	426.7	0.0000	0.0000	43
29**	17.68	17.68	0.0	426.7	0.0000	0.0000	44
30**	21.21	21.21	0.0	426.7	0.0000	0.0000	45
31**	28.28	28.28	0.0	426.7	0.0000	0.0000	46
32**	35.36	35.36	0.0	426.7	0.0000	0.0000	47
33	0.92	0.38	0.0	106.7	0.0000	0.0000	48
34	1.85	0.77	0.0	106.7	0.0000	0.0000	49
35	2.77	1.15	0.0	106.7	0.0000	0.0000	50
36	3.70	1.53	0.0	106.7	0.0000	0.0000	51
37	4.62	1.91	0.0	106.7	0.0000	0.0000	52
38	5.54	2.30	0.0	106.7	0.0000	0.0000	53
39	6.47	2.68	0.0	106.7	0.0000	0.0000	54
40	7.39	3.05	0.0	106.7	0.0000	0.0000	55
41	8.31	3.44	0.0	106.7	0.0000	0.0000	56
42	9.24	3.83	0.0	106.7	0.0000	0.0000	57
43	13.86	5.74	0.0	106.7	0.0000	0.0000	58
44	18.48	7.65	0.0	106.7	0.0000	0.0000	59
45	23.10	9.57	0.0	106.7	0.0000	0.0000	60
46	27.72	11.48	0.0	106.7	0.0000	0.0000	61
47	36.96	15.31	0.0	106.7	0.0000	0.0000	62
48	46.19	19.13	0.0	106.7	0.0000	0.0000	63
49	1.00	0.00	0.0	106.7	0.0000	0.0000	64

50	2.00	0.00	0.0	106.7	0.0000	0.0000	65
51	3.00	0.00	0.0	106.7	0.0000	0.0000	66
52	4.00	0.00	0.0	106.7	0.0000	0.0000	67
53	5.00	0.00	0.0	106.7	0.0000	0.0000	68
54	6.00	0.00	0.0	106.7	0.0000	0.0000	69
55	7.00	0.00	0.0	106.7	0.0000	0.0000	70
56	8.00	0.00	0.0	106.7	0.0000	0.0000	71
57	9.00	0.00	0.0	106.7	0.0000	0.0000	72
58	10.00	0.00	0.0	106.7	0.0000	0.0000	73
59	15.00	0.00	0.0	106.7	0.0000	0.0000	74
60	20.00	0.00	0.0	106.7	0.0000	0.0000	75
61	25.00	0.00	0.0	106.7	0.0000	0.0000	76
62	30.00	0.00	0.0	106.7	0.0000	0.0000	77
63	40.00	0.00	0.0	106.7	0.0000	0.0000	78
64	50.00	0.00	0.0	106.7	0.0000	0.0000	79
65	0.92	-0.38	0.0	106.7	0.0000	0.0000	80
66	1.85	-0.77	0.0	106.7	0.0000	0.0000	81
67	2.77	-1.15	0.0	106.7	0.0000	0.0000	82
68	3.70	-1.53	0.0	106.7	0.0000	0.0000	83
69	4.62	-1.91	0.0	106.7	0.0000	0.0000	84
70	5.54	-2.30	0.0	106.7	0.0000	0.0000	85
71	6.47	-2.68	0.0	106.7	0.0000	0.0000	86
72	7.39	-3.06	0.0	106.7	0.0000	0.0000	87
73	8.31	-3.44	0.0	106.7	0.0000	0.0000	88
74	9.24	-3.83	0.0	106.7	0.0000	0.0000	89
75	13.86	-5.74	0.0	106.7	0.0000	0.0000	90
76	18.48	-7.65	0.0	106.7	0.0000	0.0000	91
77	23.10	-9.57	0.0	106.7	0.0000	0.0000	92
78	27.72	-11.48	0.0	106.7	0.0000	0.0000	93
79	36.96	-15.31	0.0	106.7	0.0000	0.0000	94
80	46.19	-19.13	0.0	106.7	0.0000	0.0000	95
81	0.71	-0.71	0.0	106.7	0.0000	0.0000	96
82	1.41	-1.41	0.0	106.7	0.0000	0.0000	15
83	2.12	-2.12	0.0	106.7	0.0000	0.0000	14
84	2.83	-2.83	0.0	106.7	0.0000	0.0000	13
85	3.54	-3.54	0.0	106.7	0.0000	0.0000	12
86	4.24	-4.24	0.0	106.7	0.0000	0.0003	11
87	4.95	-4.95	0.0	106.7	0.0000	0.0021	10
88	5.66	-5.66	0.0	106.7	0.0000	0.0077	9
89	6.36	-6.36	0.0	106.7	0.0000	0.0206	8
90	7.07	-7.07	0.0	106.7	0.0000	0.0432	7
91	10.61	-10.61	0.0	106.7	0.0000	0.2694	6
92	14.14	-14.14	0.0	106.7	0.0000	0.5571	5
93	17.68	-17.68	0.0	106.7	0.0000	0.7773	4
94	21.21	-21.21	0.0	106.7	0.0000	0.9098	3
95	28.28	-28.28	0.0	106.7	0.0000	0.9641	1
96	35.36	-35.36	0.0	106.7	0.0000	0.9233	2
97	0.38	-0.92	0.0	106.7	0.0000	0.0000	97
98	0.77	-1.85	0.0	106.7	0.0000	0.0000	98
99	1.15	-2.77	0.0	106.7	0.0000	0.0000	99
100	1.53	-3.70	0.0	106.7	0.0000	0.0000	100
101	1.91	-4.62	0.0	106.7	0.0000	0.0000	101
102	2.30	-5.54	0.0	106.7	0.0000	0.0000	102
103	2.68	-6.47	0.0	106.7	0.0000	0.0000	103
104	3.06	-7.39	0.0	106.7	0.0000	0.0000	104
105	3.44	-8.31	0.0	106.7	0.0000	0.0000	105
106	3.83	-9.24	0.0	106.7	0.0000	0.0000	106
107	5.74	-13.86	0.0	106.7	0.0000	0.0000	107
108	7.76	-18.48	0.0	106.7	0.0000	0.0000	108
109	9.57	-23.10	0.0	106.7	0.0000	0.0000	109
110	11.48	-27.72	0.0	106.7	0.0000	0.0000	110

111	15.31	-36.96	0.0	106.7	0.0000	0.0000	111
112	19.13	-46.19	0.0	106.7	0.0000	0.0000	112
113	0.00	-1.00	0.0	106.7	0.0000	0.0000	113
114	0.00	-2.00	0.0	106.7	0.0000	0.0000	114
115	0.00	-3.00	0.0	106.7	0.0000	0.0000	115
116	0.00	-4.00	0.0	106.7	0.0000	0.0000	116
117	0.00	-5.00	0.0	106.7	0.0000	0.0000	117
118	0.00	-6.00	0.0	106.7	0.0000	0.0000	118
119	0.00	-7.00	0.0	106.7	0.0000	0.0000	119
120	0.00	-8.00	0.0	106.7	0.0000	0.0000	120
121	0.00	-9.00	0.0	106.7	0.0000	0.0000	121
122	0.00	-10.00	0.0	106.7	0.0000	0.0000	122
123	0.00	-15.00	0.0	106.7	0.0000	0.0000	123
124	0.00	-20.00	0.0	106.7	0.0000	0.0000	124
125	0.00	-25.00	0.0	106.7	0.0000	0.0000	125
126	0.00	-30.00	0.0	106.7	0.0000	0.0000	126
127	0.00	-40.00	0.0	106.7	0.0000	0.0000	127
128	0.00	-50.00	0.0	106.7	0.0000	0.0000	128

Susitna DEIS Comments
Nenana Site Three 200 MW Coal Fired Plants
Worst Case Impacts for SO2 Using Worst Case Coal

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 84/ 1 : HOUR 16

RECEPTOR NO.	NAME	EAST COORD	NORTH COORD	RECEPTOR HT AGV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1		0.38	0.92	0.0	106.7	0.0000	0.0000	16
2		0.77	1.85	0.0	106.7	0.0000	0.0000	17
3		1.15	2.77	0.0	106.7	0.0000	0.0000	18
4		1.53	3.70	0.0	106.7	0.0000	0.0000	19
5		1.91	4.62	0.0	106.7	0.0000	0.0000	20
6		2.30	5.54	0.0	106.7	0.0000	0.0000	21
7		2.68	6.47	0.0	106.7	0.0000	0.0000	22
8		3.06	7.39	0.0	106.7	0.0000	0.0000	23
9		3.44	8.31	0.0	106.7	0.0000	0.0000	24
10		3.83	9.24	0.0	106.7	0.0000	0.0000	25
11		5.74	13.86	0.0	106.7	0.0000	0.0000	26
12		7.76	18.48	0.0	106.7	0.0000	0.0000	27
13		9.57	23.10	0.0	106.7	0.0000	0.0000	28
14		11.48	27.72	0.0	106.7	0.0000	0.0000	29
15		15.31	36.96	0.0	106.7	0.0000	0.0000	30
16		19.13	46.19	0.0	106.7	0.0000	0.0000	31
17		0.71	0.71	0.0	106.7	0.0000	0.0000	32
18		1.41	1.41	0.0	106.7	0.0000	0.0000	33
19		2.12	2.12	0.0	106.7	0.0000	0.0000	34
20		2.83	2.83	0.0	106.7	0.0000	0.0000	35
21		3.54	3.54	0.0	106.7	0.0000	0.0000	36
22		4.24	4.24	0.0	106.7	0.0000	0.0000	37
23		4.95	4.95	0.0	182.9	0.0000	0.0000	38
24		5.66	5.66	0.0	213.4	0.0000	0.0000	39
25**		6.36	6.36	0.0	396.2	0.0000	0.0000	40
26**		7.07	7.07	0.0	487.7	0.0000	0.0000	41
27**		10.61	10.61	0.0	426.7	0.0000	0.0000	42
28**		14.14	14.14	0.0	426.7	0.0000	0.0000	43
29**		17.68	17.68	0.0	426.7	0.0000	0.0000	44
30**		21.21	21.21	0.0	426.7	0.0000	0.0000	45
31**		28.28	28.28	0.0	426.7	0.0000	0.0000	46
32**		35.36	35.36	0.0	426.7	0.0000	0.0000	47
33		0.92	0.38	0.0	106.7	0.0000	0.0000	48
34		1.85	0.77	0.0	106.7	0.0000	0.0000	49
35		2.77	1.15	0.0	106.7	0.0000	0.0000	50
36		3.70	1.53	0.0	106.7	0.0000	0.0000	51
37		4.62	1.91	0.0	106.7	0.0000	0.0000	52
38		5.54	2.30	0.0	106.7	0.0000	0.0000	53
39		6.47	2.68	0.0	106.7	0.0000	0.0000	54
40		7.39	3.06	0.0	106.7	0.0000	0.0000	55
41		8.31	3.44	0.0	106.7	0.0000	0.0000	56
42		9.24	3.83	0.0	106.7	0.0000	0.0000	57
43		13.86	5.74	0.0	106.7	0.0000	0.0000	58
44		18.48	7.65	0.0	106.7	0.0000	0.0000	59
45		23.10	9.57	0.0	106.7	0.0000	0.0000	60
46		27.72	11.48	0.0	106.7	0.0000	0.0000	61
47		36.96	15.31	0.0	106.7	0.0000	0.0000	62
48		46.19	19.13	0.0	106.7	0.0000	0.0000	63
49		1.00	0.00	0.0	106.7	0.0000	0.0000	64

50	2.00	0.00	0.0	106.7	0.0000	0.0000	65
51	3.00	0.00	0.0	106.7	0.0000	0.0000	66
52	4.00	0.00	0.0	106.7	0.0000	0.0000	67
53	5.00	0.00	0.0	106.7	0.0000	0.0000	68
54	6.00	0.00	0.0	106.7	0.0000	0.0000	69
55	7.00	0.00	0.0	106.7	0.0000	0.0000	70
56	8.00	0.00	0.0	106.7	0.0000	0.0000	71
57	9.00	0.00	0.0	106.7	0.0000	0.0000	72
58	10.00	0.00	0.0	106.7	0.0000	0.0000	73
59	15.00	0.00	0.0	106.7	0.0000	0.0000	74
60	20.00	0.00	0.0	106.7	0.0000	0.0000	75
61	25.00	0.00	0.0	106.7	0.0000	0.0000	76
62	30.00	0.00	0.0	106.7	0.0000	0.0000	77
63	40.00	0.00	0.0	106.7	0.0000	0.0000	78
64	50.00	0.00	0.0	106.7	0.0000	0.0000	79
65	0.92	-0.38	0.0	106.7	0.0000	0.0000	80
66	1.85	-0.77	0.0	106.7	0.0000	0.0000	81
67	2.77	-1.15	0.0	106.7	0.0000	0.0000	82
68	3.70	-1.53	0.0	106.7	0.0000	0.0000	83
69	4.62	-1.91	0.0	106.7	0.0000	0.0000	84
70	5.54	-2.30	0.0	106.7	0.0000	0.0000	85
71	6.47	-2.68	0.0	106.7	0.0000	0.0000	86
72	7.39	-3.06	0.0	106.7	0.0000	0.0000	87
73	8.31	-3.44	0.0	106.7	0.0000	0.0000	88
74	9.24	-3.83	0.0	106.7	0.0000	0.0000	89
75	13.86	-5.74	0.0	106.7	0.0000	0.0000	90
76	18.48	-7.65	0.0	106.7	0.0000	0.0000	91
77	23.10	-9.57	0.0	106.7	0.0000	0.0000	92
78	27.72	-11.48	0.0	106.7	0.0000	0.0000	93
79	36.96	-15.31	0.0	106.7	0.0000	0.0000	94
80	46.19	-19.13	0.0	106.7	0.0000	0.0000	95
81	0.71	-0.71	0.0	106.7	0.0000	0.0000	96
82	1.41	-1.41	0.0	106.7	0.0000	0.0000	97
83	2.12	-2.12	0.0	106.7	0.0000	0.0000	98
84	2.83	-2.83	0.0	106.7	0.0000	0.0000	99
85	3.54	-3.54	0.0	106.7	0.0000	0.0000	100
86	4.24	-4.24	0.0	106.7	0.0000	0.0000	101
87	4.95	-4.95	0.0	106.7	0.0000	0.0000	102
88	5.66	-5.66	0.0	106.7	0.0000	0.0000	103
89	6.36	-6.36	0.0	106.7	0.0000	0.0000	104
90	7.07	-7.07	0.0	106.7	0.0000	0.0000	105
91	10.61	-10.61	0.0	106.7	0.0000	0.0000	106
92	14.14	-14.14	0.0	106.7	0.0000	0.0000	107
93	17.68	-17.68	0.0	106.7	0.0000	0.0000	108
94	21.21	-21.21	0.0	106.7	0.0000	0.0000	109
95	28.28	-28.28	0.0	106.7	0.0000	0.0000	110
96	35.36	-35.36	0.0	106.7	0.0000	0.0000	111
97	0.38	-0.92	0.0	106.7	0.0000	0.0000	112
98	0.77	-1.85	0.0	106.7	0.0000	0.0000	15
99	1.15	-2.77	0.0	106.7	0.0000	0.0000	14
100	1.53	-3.70	0.0	106.7	0.0000	0.0001	13
101	1.91	-4.62	0.0	106.7	0.0000	0.0015	12
102	2.30	-5.54	0.0	106.7	0.0000	0.0095	11
103	2.68	-6.47	0.0	106.7	0.0000	0.0332	10
104	3.06	-7.39	0.0	106.7	0.0000	0.0794	9
105	3.44	-8.31	0.0	106.7	0.0000	0.1498	8
106	3.83	-9.24	0.0	106.7	0.0000	0.2408	7
107	5.74	-13.86	0.0	106.7	0.0000	0.7291	6
108	7.76	-18.48	0.0	106.7	0.0000	1.0694	4
109	9.57	-23.10	0.0	106.7	0.0000	1.2191	2
110	11.48	-27.72	0.0	106.7	0.0000	1.2530	1

111	15.31	-36.96	0.0	106.7	0.0000	1.1491	3
112	19.13	-46.19	0.0	106.7	0.0000	1.0095	5
113	0.00	-1.00	0.0	106.7	0.0000	0.0000	113
114	0.00	-2.00	0.0	106.7	0.0000	0.0000	114
115	0.00	-3.00	0.0	106.7	0.0000	0.0000	115
116	0.00	-4.00	0.0	106.7	0.0000	0.0000	116
117	0.00	-5.00	0.0	106.7	0.0000	0.0000	117
118	0.00	-6.00	0.0	106.7	0.0000	0.0000	118
119	0.00	-7.00	0.0	106.7	0.0000	0.0000	119
120	0.00	-8.00	0.0	106.7	0.0000	0.0000	120
121	0.00	-9.00	0.0	106.7	0.0000	0.0000	121
122	0.00	-10.00	0.0	106.7	0.0000	0.0000	122
123	0.00	-15.00	0.0	106.7	0.0000	0.0000	123
124	0.00	-20.00	0.0	106.7	0.0000	0.0000	124
125	0.00	-25.00	0.0	106.7	0.0000	0.0000	125
126	0.00	-30.00	0.0	106.7	0.0000	0.0000	126
127	0.00	-40.00	0.0	106.7	0.0000	0.0000	127
128	0.00	-50.00	0.0	106.7	0.0000	0.0000	128

COMPLEX I - VERSION 80353

Susitna DEIS Comments
Nenana Site 200 MW Coal Fired Plant
Worst Case Impacts for SO2 Using Worst Case Coal

COMPLEXI (VERSION 81052)
AN AIR QUALITY DISPERSION MODEL IN
SECTION 2. NON-GUIDELINE MODELS.
IN UNAMAP (VERSION 5) DEC 82
SOURCE: FILE 16 ON UNAMAP MAGNETIC TAPE FROM NTIS.

GENERAL INPUT INFORMATION

THIS RUN OF COMPLEX I -VERSION 80353 IS FOR THE POLLUTANT SO2 FOR 16 1-HOUR PERIODS.
CONCENTRATION ESTIMATES BEGIN ON HOUR- 1,JULIAN DAY- 1, YEAR-1984.
A FACTOR OF 1.0000000 HASBEEN SPECIFIED TO CONVERT USER LENGTH UNITS TO KILOMETERS.
0 SIGNIFICANT SOURCES ARE TO BE CONSIDERED.
THIS RUN WILL NOT CONSIDER ANY POLLUTANT LOSS.
A FACTOR OF 1.0000000 HAS BEEN SPECIFIED TO CONVERT USER HEIGHT UNITS TO METERS.

OPTION	OPTION LIST	OPTION SPECIFICATION : 0= IGNORE OPTION 1= USE OPTION
	TECHNICAL OPTIONS	
1	TERRAIN ADJUSTMENTS	1
2	DO NOT INCLUDE STACK DOWNWASH CALCULATIONS	1
3	DO NOT INCLUDE GRADUAL PLUME RISE CALCULATIONS	1
4	CALCULATE INITIAL PLUME SIZE	0
	INPUT OPTIONS	
5	READ MET DATA FROM CARDS	1
6	READ HOURLY EMISSIONS	0
7	SPECIFY SIGNIFICANT SOURCES	0
8	READ RADIAL DISTANCES TO GENERATE RECEPTORS	0
	PRINTED OUTPUT OPTIONS	
9	DELETE EMISSIONS WITHHEIGHT TABLE	1
10	DELETE MET DATA SUMMARY FOR AVG PERIOD	1
11	DELETE HOURLY CONTRIBUTIONS	1
12	DELETE MET DATA ON HOURLY CONTRIBUTIONS	1
13	DELETE FINAL PLUME RISE CALC ON HRLY CONTRIBUTIONS	1
14	DELETE HOURLY SUMMARY	0
15	DELETE MET DATA ON HRLY SUMMARY	1
16	DELETE FINAL PLUME RISE CALC ON HRLY SUMMARY	1
17	DELETE AVG-PERIOD CONTRIBUTIONS	1
18	DELETE AVERAGING PERIOD SUMMARY	1
19	DELETE AVG CONCENTRATIONS AND HI-STABLES	1
	OTHER CONTROL AND OUTPUT OPTIONS	
20	RUN IS PART OF A SEGMENTED RUN	0
21	WRITE PARTIAL CONC TO DISK OR TAPE	0
22	WRITE HOURLY CONC TO DISK OR TAPE	0
23	WRITE AVG-PERIOD CONC TO DISKOR TAPE	0
24	PUNCH AVG-PERIOD CONC ONTO CARDS	0
25	COMPLEX TERRAIN OPTION	3

ANEMOMETER HEIGHT IS: 10.00
EXPONENTS FOR POWER- LAW WIND INCREASE WITH HEIGHT ARE:0.07,0.07,0.10,0.15,0.35,0.55
TERRAIN ADJUSTMENTS ARE: 1.000,1.000,1.000,1.000,0.000,0.000 ZMIN IS 10.0

53

POINT SOURCE INFORMATION

SOURCE	EAST COORD (USER UNITS)	NORTH COORD (USER UNITS)	SO2(G/SEC) EMISSIONS	PART(G/SEC) EMISSIONS	STACK HT(M)	STACK TEMP(K)	STACK DIAM(M)	STACK VEL(M/SEC)	POTEN. IMPACT (MICRO G/M**3)	EFF HT(M)	GRD-LVL ELEV USER HT UNITS	BUOY FLUX F M**4/S**3
1 3 X 200 MW	0.00	0.00	86.00	0.00	134.0	361.0	5.5	20.1	22.82	513.11	106.00	279.76

ADDITIONAL INFORMATION ON SOURCES.

EMISSION INFORMATION FOR 1 (NPT) POINT SOURCES HAS BEEN INPUT
0 SIGNIFICANT POINT SOURCES(NSIGP) ARE TO BE USED FOR THIS RUN
THE ORDER OF SIGNIFICANCE(IMPS) FOR 25 OR LESS POINT SOURCES USED IN THIS RUN AS LISTED BY POINTSOURCE NUMBER:

RECEPTOR INFORMATION

RECEPTOR	IDENTIFICATION	EAST COORD (USER UNITS)	NORTH COORD (USER UNITS)	RECEPTOR HT ABV LOCAL GRD LVL (METERS)	RECEPTOR GROUND LEVEL ELEVATION (USER HT UNITS)
1		-0.383	-0.924	0.0	106.7
2		-0.765	-1.848	0.0	106.7
3		-1.148	-2.772	0.0	106.7
4		-1.531	-3.695	0.0	106.7
5		-1.913	-4.619	0.0	106.7
6		-2.296	-5.543	0.0	106.7
7		-2.679	-6.467	0.0	106.7
8		-3.061	-7.391	0.0	106.7
9		-3.444	-8.315	0.0	106.7
10		-3.827	-9.239	0.0	106.7
11		-5.740	-13.858	0.0	106.7
12		-7.764	-18.478	0.0	106.7
13		-9.567	-23.097	0.0	106.7
14		-11.481	-27.716	0.0	106.7
15		-15.307	-36.955	0.0	106.7
16		-19.134	-46.194	0.0	106.7
17		-0.707	-0.707	0.0	106.7
18		-1.414	-1.414	0.0	106.7
19		-2.121	-2.121	0.0	106.7
20		-2.828	-2.829	0.0	106.7
21		-3.536	-3.536	0.0	106.7
22		-4.243	-4.243	0.0	106.7
23		-4.950	-4.950	0.0	106.7
24		-5.657	-5.657	0.0	106.7
25		-6.364	-6.2[illegible]	0.0	106.7
26		-7.071	-7.071	0.0	106.7
27		-10.607	-10.607	0.0	106.7
28		-14.142	-14.142	0.0	106.7
29		-17.678	-17.678	0.0	106.7
30		-21.213	-21.213	0.0	106.7
31		-28.284	-28.284	0.0	106.7
32		-35.355	-35.355	0.0	106.7
33		-0.924	-0.383	0.0	106.7
34		-1.848	-0.765	0.0	106.7
35		-2.772	-1.148	0.0	106.7
36		-3.695	-1.531	0.0	106.7
37		-4.619	-1.913	0.0	106.7
38		-5.543	-2.296	0.0	106.7
39		-6.467	-2.679	0.0	106.7

40	-7.391	-3.062	0.0	106.7
41	-8.315	-3.444	0.0	106.7
42	-9.239	-3.827	0.0	106.7
43	-13.858	-5.740	0.0	106.7
44	-18.478	-7.654	0.0	106.7
45	-23.097	-9.567	0.0	106.7
46	-27.716	-11.481	0.0	106.7
47	-36.955	-15.307	0.0	106.7
48	-46.194	-19.134	0.0	106.7
49	-1.000	0.000	0.0	106.7
50	-2.000	0.000	0.0	106.7
51	-3.000	0.000	0.0	106.7
52	-4.000	0.000	0.0	106.7
53	-5.000	0.000	0.0	106.7
54	-6.000	0.000	0.0	106.7
55	-7.000	0.000	0.0	106.7
56	-8.000	0.000	0.0	106.7
57	-9.000	0.000	0.0	106.7
58	-10.000	0.000	0.0	106.7
59	-15.000	0.000	0.0	106.7
60	-20.000	0.000	0.0	106.7
61	-25.000	0.000	0.0	106.7
62	-30.000	0.000	0.0	106.7
63	-40.000	0.000	0.0	106.7
64	-50.000	0.000	0.0	106.7
65	-0.924	0.383	0.0	106.7
66	-1.848	0.765	0.0	106.7
67	-2.772	1.148	0.0	106.7
68	-3.696	1.531	0.0	106.7
69	-4.620	1.913	0.0	106.7
70	-5.543	2.296	0.0	106.7
71	-6.467	2.679	0.0	106.7
72	-7.391	3.061	0.0	106.7
73	-8.315	3.444	0.0	106.7
74	-9.239	3.827	0.0	106.7
75	-13.858	5.740	0.0	106.7
76	-18.478	7.654	0.0	106.7
77	-23.097	9.567	0.0	106.7
78	-27.716	11.481	0.0	106.7
79	-36.955	15.307	0.0	106.7
80	-46.194	19.134	0.0	106.7
81	-0.707	0.707	0.0	106.7
82	-1.414	1.414	0.0	106.7
83	-2.121	2.121	0.0	106.7
84	-2.829	2.828	0.0	106.7
85	-3.536	3.535	0.0	106.7
86	-4.243	4.242	0.0	109.7
87	-4.950	4.950	0.0	115.8
88	-5.657	5.657	0.0	121.9
89	-6.364	6.364	0.0	121.9
90	-7.071	7.071	0.0	121.9
91	-10.607	10.607	0.0	121.9
92	-14.142	14.142	0.0	121.9
93	-17.678	17.678	0.0	121.9
94	-21.213	21.213	0.0	121.9
95	-28.284	28.284	0.0	121.9
96	-35.355	35.355	0.0	121.9
97	-0.383	0.924	0.0	106.7
98	-0.765	1.848	0.0	106.7
99	-1.148	2.772	0.0	106.7
100	-1.531	3.695	0.0	106.7

101	-1.914	4.619	0.0	106.7
102	-2.296	5.543	0.0	109.7
103	-2.679	6.467	0.0	115.8
104	-3.062	7.391	0.0	118.9
105	-3.444	8.315	0.0	121.9
106	-3.827	9.239	0.0	121.9
107	-5.740	13.858	0.0	121.9
108	-7.764	18.478	0.0	121.9
109	-9.567	23.097	0.0	121.9
110	-11.481	27.716	0.0	121.9
111	-15.307	36.955	0.0	121.9
112	-19.134	46.194	0.0	121.9
113	0.000	1.000	0.0	106.7
114	0.000	2.000	0.0	106.7
115	0.000	3.000	0.0	106.7
116	0.000	4.000	0.0	106.7
117	0.000	5.000	0.0	106.7
118	0.000	6.000	0.0	106.7
119	0.000	7.000	0.0	106.7
120	0.000	8.000	0.0	106.7
121	0.000	9.000	0.0	106.7
122	0.000	10.000	0.0	106.7
123	0.000	15.000	0.0	106.7
124	0.000	20.000	0.0	106.7
125	0.000	25.000	0.0	106.7
126	0.000	30.000	0.0	106.7
127	0.000	40.000	0.0	106.7
128	0.000	50.000	0.0	106.7

* ONE ASTERISK INDICATES THAT THE ASSOCIATED RECEPTOR(S) HAVE A GROUND LEVEL ELEVATION LOWER THAN THE LOWEST SOURCE BASE ELEVATION. CAUTION SHOULD BE USED IN INTERPRETING CONCENTRATIONS FOR THESE RECEPTORS.

** TWO ASTERISKS INDICATE THAT THE ASSOCIATED RECEPTOR(S) HAVE GROUND LEVEL ELEVATIONS ABOVE THE LOWEST STACK TOP. CONSEQUENTLY NO CALCULATIONS WILL BE PERFORMED WITH THIS RECEPTOR.A SERIES OF ASTERISKS WILL INSTEAD APPEAR IN THE OUTPUT.

Susitna DEIS Comments
Nenana Site 200 MW Coal Fired Plant
Worst Case Impacts for SO2 Using Worst Case Coal

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 84/ 1 : HOUR 1

RECEPTOR NO.	NAME	EAST COORD	NORTH COORD	RECEPTOR HT ABV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1		-0.38	-0.92	0.0	106.7	0.0000	0.0000	1
2		-0.77	-1.85	0.0	106.7	0.0000	0.0000	2
3		-1.15	-2.77	0.0	106.7	0.0000	0.0000	3
4		-1.53	-3.70	0.0	106.7	0.0000	0.0000	4
5		-1.91	-4.62	0.0	106.7	0.0000	0.0000	5
6		-2.30	-5.54	0.0	106.7	0.0000	0.0000	6
7		-2.68	-6.47	0.0	106.7	0.0000	0.0000	7
8		-3.06	-7.39	0.0	106.7	0.0000	0.0000	8
9		-3.44	-8.31	0.0	106.7	0.0000	0.0000	9
10		-3.83	-9.24	0.0	106.7	0.0000	0.0000	10
11		-5.74	-13.86	0.0	106.7	0.0000	0.0000	11
12		-7.76	-18.48	0.0	106.7	0.0000	0.0000	12
13		-9.57	-23.10	0.0	106.7	0.0000	0.0000	13
14		-11.48	-27.72	0.0	106.7	0.0000	0.0000	14
15		-15.31	-36.96	0.0	106.7	0.0000	0.0000	15
16		-19.13	-46.19	0.0	106.7	0.0000	0.0000	16
17		-0.71	-0.71	0.0	106.7	0.0000	0.0000	17
18		-1.41	-1.41	0.0	106.7	0.0000	0.0000	18
19		-2.12	-2.12	0.0	106.7	0.0000	0.0000	19
20		-2.83	-2.83	0.0	106.7	0.0000	0.0000	20
21		-3.54	-3.54	0.0	106.7	0.0000	0.0000	21
22		-4.24	-4.24	0.0	106.7	0.0000	0.0000	22
23		-4.95	-4.95	0.0	106.7	0.0000	0.0000	23
24		-5.66	-5.66	0.0	106.7	0.0000	0.0000	24
25		-6.36	-6.36	0.0	106.7	0.0000	0.0000	25
26		-7.07	-7.07	0.0	106.7	0.0000	0.0000	26
27		-10.61	-10.61	0.0	106.7	0.0000	0.0000	27
28		-14.14	-14.14	0.0	106.7	0.0000	0.0000	28
29		-17.68	-17.68	0.0	106.7	0.0000	0.0000	29
30		-21.21	-21.21	0.0	106.7	0.0000	0.0000	30
31		-28.28	-28.28	0.0	106.7	0.0000	0.0000	31
32		-35.36	-35.36	0.0	106.7	0.0000	0.0000	32
33		-0.92	-0.38	0.0	106.7	0.0000	0.0000	33
34		-1.85	-0.77	0.0	106.7	0.0000	0.0000	34
35		-2.77	-1.15	0.0	106.7	0.0000	0.0000	35
36		-3.70	-1.53	0.0	106.7	0.0000	0.0000	36
37		-4.62	-1.91	0.0	106.7	0.0000	0.0000	37
38		-5.54	-2.30	0.0	106.7	0.0000	0.0000	38
39		-6.47	-2.68	0.0	106.7	0.0000	0.0000	39
40		-7.39	-3.06	0.0	106.7	0.0000	0.0000	40
41		-8.31	-3.44	0.0	106.7	0.0000	0.0000	41
42		-9.24	-3.83	0.0	106.7	0.0000	0.0000	42
43		-13.86	-5.74	0.0	106.7	0.0000	0.0000	43
44		-18.48	-7.65	0.0	106.7	0.0000	0.0000	44
45		-23.10	-9.57	0.0	106.7	0.0000	0.0000	45
46		-27.72	-11.48	0.0	106.7	0.0000	0.0000	46
47		-36.96	-15.31	0.0	106.7	0.0000	0.0000	47
48		-46.19	-19.13	0.0	106.7	0.0000	0.0000	48
49		-1.00	0.00	0.0	106.7	0.0000	0.0000	49

50	-2.00	0.00	0.0	106.7	0.0000	0.0000	50
51	-3.00	0.00	0.0	106.7	0.0000	0.0000	51
52	-4.00	0.00	0.0	106.7	0.0000	0.0000	52
53	-5.00	0.00	0.0	106.7	0.0000	0.0000	53
54	-6.00	0.00	0.0	106.7	0.0000	0.0000	54
55	-7.00	0.00	0.0	106.7	0.0000	0.0000	55
56	-8.00	0.00	0.0	106.7	0.0000	0.0000	56
57	-9.00	0.00	0.0	106.7	0.0000	0.0000	57
58	-10.00	0.00	0.0	106.7	0.0000	0.0000	58
59	-15.00	0.00	0.0	106.7	0.0000	0.0000	59
60	-20.00	0.00	0.0	106.7	0.0000	0.0000	60
61	-25.00	0.00	0.0	106.7	0.0000	0.0000	61
62	-30.00	0.00	0.0	106.7	0.0000	0.0000	62
63	-40.00	0.00	0.0	106.7	0.0000	0.0000	63
64	-50.00	0.00	0.0	106.7	0.0000	0.0000	64
65	-0.92	0.38	0.0	106.7	0.0000	0.0000	65
66	-1.85	0.77	0.0	106.7	0.0000	0.0000	66
67	-2.77	1.15	0.0	106.7	0.0000	0.0000	67
68	-3.70	1.53	0.0	106.7	0.0000	0.0000	68
69	-4.62	1.91	0.0	106.7	0.0000	0.0000	69
70	-5.54	2.30	0.0	106.7	0.0000	0.0000	70
71	-6.47	2.68	0.0	106.7	0.0000	0.0000	71
72	-7.39	3.06	0.0	106.7	0.0000	0.0000	72
73	-8.31	3.44	0.0	106.7	0.0000	0.0000	73
74	-9.24	3.83	0.0	106.7	0.0000	0.0000	74
75	-13.86	5.74	0.0	106.7	0.0000	0.0000	75
76	-18.48	7.65	0.0	106.7	0.0000	0.0000	76
77	-23.10	9.57	0.0	106.7	0.0000	0.0000	77
78	-27.72	11.48	0.0	106.7	0.0000	0.0000	78
79	-36.96	15.31	0.0	106.7	0.0000	0.0000	79
80	-46.19	19.13	0.0	106.7	0.0000	0.0000	80
81	-0.71	0.71	0.0	106.7	0.0000	0.0000	81
82	-1.41	1.41	0.0	106.7	0.0000	0.0000	82
83	-2.12	2.12	0.0	106.7	0.0000	0.0000	83
84	-2.83	2.83	0.0	106.7	0.0000	0.0000	84
85	-3.54	3.54	0.0	106.7	0.0000	0.0000	85
86	-4.24	4.24	0.0	109.7	0.0000	0.0000	86
87	-4.95	4.95	0.0	115.8	0.0000	0.0000	87
88	-5.66	5.66	0.0	121.9	0.0000	0.0000	88
89	-6.36	6.36	0.0	121.9	0.0000	0.0000	89
90	-7.07	7.07	0.0	121.9	0.0000	0.0000	90
91	-10.61	10.61	0.0	121.9	0.0000	0.0000	91
92	-14.14	14.14	0.0	121.9	0.0000	0.0000	92
93	-17.68	17.68	0.0	121.9	0.0000	0.0000	93
94	-21.21	21.21	0.0	121.9	0.0000	0.0000	94
95	-28.28	28.28	0.0	121.9	0.0000	0.0000	95
96	-35.36	35.36	0.0	121.9	0.0000	0.0000	96
97	-0.38	0.92	0.0	106.7	0.0000	0.0000	97
98	-0.77	1.85	0.0	106.7	0.0000	0.0000	98
99	-1.15	2.77	0.0	106.7	0.0000	0.0000	99
100	-1.53	3.70	0.0	106.7	0.0000	0.0000	100
101	-1.91	4.62	0.0	106.7	0.0000	0.0000	101
102	-2.30	5.54	0.0	109.7	0.0000	0.0000	102
103	-2.68	6.47	0.0	115.8	0.0000	0.0000	103
104	-3.06	7.39	0.0	118.9	0.0000	0.0000	104
105	-3.44	8.31	0.0	121.9	0.0000	0.0000	105
106	-3.83	9.24	0.0	121.9	0.0000	0.0000	106
107	-5.74	13.86	0.0	121.9	0.0000	0.0000	107
108	-7.76	18.48	0.0	121.9	0.0000	0.0000	108
109	-9.57	23.10	0.0	121.9	0.0000	0.0000	109
110	-11.48	27.72	0.0	121.9	0.0000	0.0000	110

111	-15.31	36.96	0.0	121.9	0.0000	0.0000	111
112	-19.13	46.19	0.0	121.9	0.0000	0.0000	112
113	0.00	1.00	0.0	106.7	0.0000	0.0000	113
114	0.00	2.00	0.0	106.7	0.0000	0.0000	114
115	0.00	3.00	0.0	106.7	0.0000	0.0000	115
116	0.00	4.00	0.0	106.7	0.0000	0.0000	116
117	0.00	5.00	0.0	106.7	0.0000	0.0000	117
118	0.00	6.00	0.0	106.7	0.0000	0.0000	118
119	0.00	7.00	0.0	106.7	0.0000	0.0000	119
120	0.00	8.00	0.0	106.7	0.0000	0.0000	120
121	0.00	9.00	0.0	106.7	0.0000	0.0000	121
122	0.00	10.00	0.0	106.7	0.0000	0.0000	122
123	0.00	15.00	0.0	106.7	0.0000	0.0000	123
124	0.00	20.00	0.0	106.7	0.0000	0.0000	124
125	0.00	25.00	0.0	106.7	0.0000	0.0000	125
126	0.00	30.00	0.0	106.7	0.0000	0.0000	126
127	0.00	40.00	0.0	106.7	0.0000	0.0000	127
128	0.00	50.00	0.0	106.7	0.0000	0.0000	128

Susitna DEIS Comments
Nenana Site 200 MW Coal Fired Plant
Worst Case Impacts for SO2 Using Worst Case Coal

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 84/ 1 : HOUR 2

RECEPTOR NO.	NAME	EAST COORD	NORTH COORD	RECEPTOR HT ABV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1		-0.38	-0.92	0.0	106.7	0.0000	0.0000	16
2		-0.77	-1.85	0.0	106.7	0.0000	0.0000	15
3		-1.15	-2.77	0.0	106.7	0.0000	0.0000	14
4		-1.53	-3.70	0.0	106.7	0.0000	0.0000	13
5		-1.91	-4.62	0.0	106.7	0.0000	0.0000	12
6		-2.30	-5.54	0.0	106.7	0.0000	0.0006	11
7		-2.68	-6.47	0.0	106.7	0.0000	0.0035	10
8		-3.06	-7.39	0.0	106.7	0.0000	0.0121	9
9		-3.44	-8.31	0.0	106.7	0.0000	0.0301	8
10		-3.83	-9.24	0.0	106.7	0.0000	0.0601	7
11		-5.74	-13.86	0.0	106.7	0.0000	0.3274	6
12		-7.76	-18.48	0.0	106.7	0.0000	0.6366	5
13		-9.57	-23.10	0.0	106.7	0.0000	0.8522	4
14		-11.48	-27.72	0.0	106.7	0.0000	0.9733	2
15		-15.31	-36.96	0.0	106.7	0.0000	1.0038	1
16		-19.13	-46.19	0.0	106.7	0.0000	0.9458	3
17		-0.71	-0.71	0.0	106.7	0.0000	0.0000	17
18		-1.41	-1.41	0.0	106.7	0.0000	0.0000	18
19		-2.12	-2.12	0.0	106.7	0.0000	0.0000	19
20		-2.83	-2.83	0.0	106.7	0.0000	0.0000	20
21		-3.54	-3.54	0.0	106.7	0.0000	0.0000	21
22		-4.24	-4.24	0.0	106.7	0.0000	0.0000	22
23		-4.95	-4.95	0.0	106.7	0.0000	0.0000	23
24		-5.66	-5.66	0.0	106.7	0.0000	0.0000	24
25		-6.36	-6.36	0.0	106.7	0.0000	0.0000	25
26		-7.07	-7.07	0.0	106.7	0.0000	0.0000	26
27		-10.61	-10.61	0.0	106.7	0.0000	0.0000	27
28		-14.14	-14.14	0.0	106.7	0.0000	0.0000	28
29		-17.68	-17.68	0.0	106.7	0.0000	0.0000	29
30		-21.21	-21.21	0.0	106.7	0.0000	0.0000	30
31		-28.28	-28.28	0.0	106.7	0.0000	0.0000	31
32		-35.36	-35.36	0.0	106.7	0.0000	0.0000	32
33		-0.92	-0.38	0.0	106.7	0.0000	0.0000	33
34		-1.85	-0.77	0.0	106.7	0.0000	0.0000	34
35		-2.77	-1.15	0.0	106.7	0.0000	0.0000	35
36		-3.70	-1.53	0.0	106.7	0.0000	0.0000	36
37		-4.62	-1.91	0.0	106.7	0.0000	0.0000	37
38		-5.54	-2.30	0.0	106.7	0.0000	0.0000	38
39		-6.47	-2.68	0.0	106.7	0.0000	0.0000	39
40		-7.39	-3.06	0.0	106.7	0.0000	0.0000	40
41		-8.31	-3.44	0.0	106.7	0.0000	0.0000	41
42		-9.24	-3.83	0.0	106.7	0.0000	0.0000	42
43		-13.86	-5.74	0.0	106.7	0.0000	0.0000	43
44		-18.48	-7.65	0.0	106.7	0.0000	0.0000	44
45		-23.10	-9.57	0.0	106.7	0.0000	0.0000	45
46		-27.72	-11.48	0.0	106.7	0.0000	0.0000	46
47		-36.96	-15.31	0.0	106.7	0.0000	0.0000	47
48		-46.19	-19.13	0.0	106.7	0.0000	0.0000	48
49		-1.00	0.00	0.0	106.7	0.0000	0.0000	49

60

50	-2.00	0.00	0.0	106.7	0.0000	0.0000	50
51	-3.00	0.00	0.0	106.7	0.0000	0.0000	51
52	-4.00	0.00	0.0	106.7	0.0000	0.0000	52
53	-5.00	0.00	0.0	106.7	0.0000	0.0000	53
54	-6.00	0.00	0.0	106.7	0.0000	0.0000	54
55	-7.00	0.00	0.0	106.7	0.0000	0.0000	55
56	-8.00	0.00	0.0	106.7	0.0000	0.0000	56
57	-9.00	0.00	0.0	106.7	0.0000	0.0000	57
58	-10.00	0.00	0.0	106.7	0.0000	0.0000	58
59	-15.00	0.00	0.0	106.7	0.0000	0.0000	59
60	-20.00	0.00	0.0	106.7	0.0000	0.0000	60
61	-25.00	0.00	0.0	106.7	0.0000	0.0000	61
62	-30.00	0.00	0.0	106.7	0.0000	0.0000	62
63	-40.00	0.00	0.0	106.7	0.0000	0.0000	63
64	-50.00	0.00	0.0	106.7	0.0000	0.0000	64
65	-0.92	0.38	0.0	106.7	0.0000	0.0000	65
66	-1.85	0.77	0.0	106.7	0.0000	0.0000	66
67	-2.77	1.15	0.0	106.7	0.0000	0.0000	67
68	-3.70	1.53	0.0	106.7	0.0000	0.0000	68
69	-4.62	1.91	0.0	106.7	0.0000	0.0000	69
70	-5.54	2.30	0.0	106.7	0.0000	0.0000	70
71	-6.47	2.68	0.0	106.7	0.0000	0.0000	71
72	-7.39	3.06	0.0	106.7	0.0000	0.0000	72
73	-8.31	3.44	0.0	106.7	0.0000	0.0000	73
74	-9.24	3.83	0.0	106.7	0.0000	0.0000	74
75	-13.86	5.74	0.0	106.7	0.0000	0.0000	75
76	-18.48	7.65	0.0	106.7	0.0000	0.0000	76
77	-23.10	9.57	0.0	106.7	0.0000	0.0000	77
78	-27.72	11.48	0.0	106.7	0.0000	0.0000	78
79	-36.96	15.31	0.0	106.7	0.0000	0.0000	79
80	-46.19	19.13	0.0	106.7	0.0000	0.0000	80
81	-0.71	0.71	0.0	106.7	0.0000	0.0000	81
82	-1.41	1.41	0.0	106.7	0.0000	0.0000	82
83	-2.12	2.12	0.0	106.7	0.0000	0.0000	83
84	-2.83	2.83	0.0	106.7	0.0000	0.0000	84
85	-3.54	3.54	0.0	106.7	0.0000	0.0000	85
86	-4.24	4.24	0.0	109.7	0.0000	0.0000	86
87	-4.95	4.95	0.0	115.8	0.0000	0.0000	87
88	-5.66	5.66	0.0	121.9	0.0000	0.0000	88
89	-6.36	6.36	0.0	121.9	0.0000	0.0000	89
90	-7.07	7.07	0.0	121.9	0.0000	0.0000	90
91	-10.61	10.61	0.0	121.9	0.0000	0.0000	91
92	-14.14	14.14	0.0	121.9	0.0000	0.0000	92
93	-17.68	17.68	0.0	121.9	0.0000	0.0000	93
94	-21.21	21.21	0.0	121.9	0.0000	0.0000	94
95	-28.28	28.28	0.0	121.9	0.0000	0.0000	95
96	-35.36	35.36	0.0	121.9	0.0000	0.0000	96
97	-0.38	0.92	0.0	106.7	0.0000	0.0000	97
98	-0.77	1.85	0.0	106.7	0.0000	0.0000	98
99	-1.15	2.77	0.0	106.7	0.0000	0.0000	99
100	-1.53	3.70	0.0	106.7	0.0000	0.0000	100
101	-1.91	4.62	0.0	106.7	0.0000	0.0000	101
102	-2.30	5.54	0.0	109.7	0.0000	0.0000	102
103	-2.68	6.47	0.0	115.8	0.0000	0.0000	103
104	-3.06	7.39	0.0	118.9	0.0000	0.0000	104
105	-3.44	8.31	0.0	121.9	0.0000	0.0000	105
106	-3.83	9.24	0.0	121.9	0.0000	0.0000	106
107	-5.74	13.86	0.0	121.9	0.0000	0.0000	107
108	-7.76	18.48	0.0	121.9	0.0000	0.0000	108
109	-9.57	23.10	0.0	121.9	0.0000	0.0000	109
110	-11.48	27.72	0.0	121.9	0.0000	0.0000	110

111	-15.31	36.96	0.0	121.9	0.0000	0.0000	111
112	-19.13	46.19	0.0	121.9	0.0000	0.0000	112
113	0.00	1.00	0.0	106.7	0.0000	0.0000	113
114	0.00	2.00	0.0	106.7	0.0000	0.0000	114
115	0.00	3.00	0.0	106.7	0.0000	0.0000	115
116	0.00	4.00	0.0	106.7	0.0000	0.0000	116
117	0.00	5.00	0.0	106.7	0.0000	0.0000	117
118	0.00	6.00	0.0	106.7	0.0000	0.0000	118
119	0.00	7.00	0.0	106.7	0.0000	0.0000	119
120	0.00	8.00	0.0	106.7	0.0000	0.0000	120
121	0.00	9.00	0.0	106.7	0.0000	0.0000	121
122	0.00	10.00	0.0	106.7	0.0000	0.0000	122
123	0.00	15.00	0.0	106.7	0.0000	0.0000	123
124	0.00	20.00	0.0	106.7	0.0000	0.0000	124
125	0.00	25.00	0.0	106.7	0.0000	0.0000	125
126	0.00	30.00	0.0	106.7	0.0000	0.0000	126
127	0.00	40.00	0.0	106.7	0.0000	0.0000	127
128	0.00	50.00	0.0	106.7	0.0000	0.0000	128

Susitna DEIS Comments
Nenana Site 200 MW Coal Fired Plant
Worst Case Impacts for SO2 Using Worst Case Coal

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 84/ 1 : HOUR 3

RECEPTOR NO.	NAME	EAST COORD	NORTH COORD	RECEPTOR HT ABV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1		-0.38	-0.92	0.0	106.7	0.0000	0.0000	16
2		-0.77	-1.85	0.0	106.7	0.0000	0.0000	17
3		-1.15	-2.77	0.0	106.7	0.0000	0.0000	18
4		-1.53	-3.70	0.0	106.7	0.0000	0.0000	19
5		-1.91	-4.62	0.0	106.7	0.0000	0.0000	20
6		-2.30	-5.54	0.0	106.7	0.0000	0.0000	21
7		-2.68	-6.47	0.0	106.7	0.0000	0.0000	22
8		-3.06	-7.39	0.0	106.7	0.0000	0.0000	23
9		-3.44	-8.31	0.0	106.7	0.0000	0.0000	24
10		-3.83	-9.24	0.0	106.7	0.0000	0.0000	25
11		-5.74	-13.86	0.0	106.7	0.0000	0.0000	26
12		-7.76	-18.48	0.0	106.7	0.0000	0.0000	27
13		-9.57	-23.10	0.0	106.7	0.0000	0.0000	28
14		-11.48	-27.72	0.0	106.7	0.0000	0.0000	29
15		-15.31	-36.96	0.0	106.7	0.0000	0.0000	30
16		-19.13	-46.19	0.0	106.7	0.0000	0.0000	31
17		-0.71	-0.71	0.0	106.7	0.0000	0.0000	32
18		-1.41	-1.41	0.0	106.7	0.0000	0.0000	15
19		-2.12	-2.12	0.0	106.7	0.0000	0.0000	14
20		-2.83	-2.83	0.0	106.7	0.0000	0.0000	13
21		-3.54	-3.54	0.0	106.7	0.0000	0.0003	12
22		-4.24	-4.24	0.0	106.7	0.0000	0.0029	11
23		-4.95	-4.95	0.0	106.7	0.0000	0.0127	10
24		-5.66	-5.66	0.0	106.7	0.0000	0.0356	9
25		-6.36	-6.36	0.0	106.7	0.0000	0.0758	8
26		-7.07	-7.07	0.0	106.7	0.0000	0.1337	7
27		-10.61	-10.61	0.0	106.7	0.0000	0.5213	6
28		-14.14	-14.14	0.0	106.7	0.0000	0.8610	5
29		-17.68	-17.68	0.0	106.7	0.0000	1.0546	3
30		-21.21	-21.21	0.0	106.7	0.0000	1.1343	1
31		-28.28	-28.28	0.0	106.7	0.0000	1.0941	2
32		-35.36	-35.36	0.0	106.7	0.0000	0.9905	4
33		-0.92	-0.38	0.0	106.7	0.0000	0.0000	33
34		-1.85	-0.77	0.0	106.7	0.0000	0.0000	34
35		-2.77	-1.15	0.0	106.7	0.0000	0.0000	35
36		-3.70	-1.53	0.0	106.7	0.0000	0.0000	36
37		-4.62	-1.91	0.0	106.7	0.0000	0.0000	37
38		-5.54	-2.30	0.0	106.7	0.0000	0.0000	38
39		-6.47	-2.68	0.0	106.7	0.0000	0.0000	39
40		-7.39	-3.06	0.0	106.7	0.0000	0.0000	40
41		-8.31	-3.44	0.0	106.7	0.0000	0.0000	41
42		-9.24	-3.83	0.0	106.7	0.0000	0.0000	42
43		-13.86	-5.74	0.0	106.7	0.0000	0.0000	43
44		-18.48	-7.65	0.0	106.7	0.0000	0.0000	44
45		-23.10	-9.57	0.0	106.7	0.0000	0.0000	45
46		-27.72	-11.48	0.0	106.7	0.0000	0.0000	46
47		-36.96	-15.31	0.0	106.7	0.0000	0.0000	47
48		-46.19	-19.13	0.0	106.7	0.0000	0.0000	48
49		-1.00	0.00	0.0	106.7	0.0000	0.0000	49

63

50	-2.00	0.00	0.0	106.7	0.0000	0.0000	50
51	-3.00	0.00	0.0	106.7	0.0000	0.0000	51
52	-4.00	0.00	0.0	106.7	0.0000	0.0000	52
53	-5.00	0.00	0.0	106.7	0.0000	0.0000	53
54	-6.00	0.00	0.0	106.7	0.0000	0.0000	54
55	-7.00	0.00	0.0	106.7	0.0000	0.0000	55
56	-8.00	0.00	0.0	106.7	0.0000	0.0000	56
57	-9.00	0.00	0.0	106.7	0.0000	0.0000	57
58	-10.00	0.00	0.0	106.7	0.0000	0.0000	58
59	-15.00	0.00	0.0	106.7	0.0000	0.0000	59
60	-20.00	0.00	0.0	106.7	0.0000	0.0000	60
61	-25.00	0.00	0.0	106.7	0.0000	0.0000	61
62	-30.00	0.00	0.0	106.7	0.0000	0.0000	62
63	-40.00	0.00	0.0	106.7	0.0000	0.0000	63
64	-50.00	0.00	0.0	106.7	0.0000	0.0000	64
65	-0.92	0.38	0.0	106.7	0.0000	0.0000	65
66	-1.85	0.77	0.0	106.7	0.0000	0.0000	66
67	-2.77	1.15	0.0	106.7	0.0000	0.0000	67
68	-3.70	1.53	0.0	106.7	0.0000	0.0000	68
69	-4.62	1.91	0.0	106.7	0.0000	0.0000	69
70	-5.54	2.30	0.0	106.7	0.0000	0.0000	70
71	-6.47	2.68	0.0	106.7	0.0000	0.0000	71
72	-7.39	3.06	0.0	106.7	0.0000	0.0000	72
73	-8.31	3.44	0.0	106.7	0.0000	0.0000	73
74	-9.24	3.83	0.0	106.7	0.0000	0.0000	74
75	-13.86	5.74	0.0	106.7	0.0000	0.0000	75
76	-18.48	7.65	0.0	106.7	0.0000	0.0000	76
77	-23.10	9.57	0.0	106.7	0.0000	0.0000	77
78	-27.72	11.48	0.0	106.7	0.0000	0.0000	78
79	-36.96	15.31	0.0	106.7	0.0000	0.0000	79
80	-46.19	19.13	0.0	106.7	0.0000	0.0000	80
81	-0.71	0.71	0.0	106.7	0.0000	0.0000	81
82	-1.41	1.41	0.0	106.7	0.0000	0.0000	82
83	-2.12	2.12	0.0	106.7	0.0000	0.0000	83
84	-2.83	2.83	0.0	106.7	0.0000	0.0000	84
85	-3.54	3.54	0.0	106.7	0.0000	0.0000	85
86	-4.24	4.24	0.0	109.7	0.0000	0.0000	86
87	-4.95	4.95	0.0	115.8	0.0000	0.0000	87
88	-5.66	5.66	0.0	121.9	0.0000	0.0000	88
89	-6.36	6.36	0.0	121.9	0.0000	0.0000	89
90	-7.07	7.07	0.0	121.9	0.0000	0.0000	90
91	-10.61	10.61	0.0	121.9	0.0000	0.0000	91
92	-14.14	14.14	0.0	121.9	0.0000	0.0000	92
93	-17.68	17.68	0.0	121.9	0.0000	0.0000	93
94	-21.21	21.21	0.0	121.9	0.0000	0.0000	94
95	-28.28	28.28	0.0	121.9	0.0000	0.0000	95
96	-35.36	35.36	0.0	121.9	0.0000	0.0000	96
97	-0.38	0.92	0.0	106.7	0.0000	0.0000	97
98	-0.77	1.85	0.0	106.7	0.0000	0.0000	98
99	-1.15	2.77	0.0	106.7	0.0000	0.0000	99
100	-1.53	3.70	0.0	106.7	0.0000	0.0000	100
101	-1.91	4.62	0.0	106.7	0.0000	0.0000	101
102	-2.30	5.54	0.0	109.7	0.0000	0.0000	102
103	-2.68	6.47	0.0	115.8	0.0000	0.0000	103
104	-3.06	7.39	0.0	118.9	0.0000	0.0000	104
105	-3.44	8.31	0.0	121.9	0.0000	0.0000	105
106	-3.83	9.24	0.0	121.9	0.0000	0.0000	106
107	-5.74	13.86	0.0	121.9	0.0000	0.0000	107
108	-7.76	18.48	0.0	121.9	0.0000	0.0000	108
109	-9.57	23.10	0.0	121.9	0.0000	0.0000	109
110	-11.48	27.72	0.0	121.9	0.0000	0.0000	110

111	-15.31	36.96	0.0	121.9	0.0000	0.0000	111
112	-19.13	46.19	0.0	121.9	0.0000	0.0000	112
113	0.00	1.00	0.0	106.7	0.0000	0.0000	113
114	0.00	2.00	0.0	106.7	0.0000	0.0000	114
115	0.00	3.00	0.0	106.7	0.0000	0.0000	115
116	0.00	4.00	0.0	106.7	0.0000	0.0000	116
117	0.00	5.00	0.0	106.7	0.0000	0.0000	117
118	0.00	6.00	0.0	106.7	0.0000	0.0000	118
119	0.00	7.00	0.0	106.7	0.0000	0.0000	119
120	0.00	8.00	0.0	106.7	0.0000	0.0000	120
121	0.00	9.00	0.0	106.7	0.0000	0.0000	121
122	0.00	10.00	0.0	106.7	0.0000	0.0000	122
123	0.00	15.00	0.0	106.7	0.0000	0.0000	123
124	0.00	20.00	0.0	106.7	0.0000	0.0000	124
125	0.00	25.00	0.0	106.7	0.0000	0.0000	125
126	0.00	30.00	0.0	106.7	0.0000	0.0000	126
127	0.00	40.00	0.0	106.7	0.0000	0.0000	127
128	0.00	50.00	0.0	106.7	0.0000	0.0000	128

Susitna DEIS Comments
Nenana Site 200 MW Coal Fired Plant
Worst Case Impacts for SO2 Using Worst Case Coal

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 84/ 1 : HOUR 4

RECEPTOR NO.	NAME	EAST COORD	NORTH COORD	RECEPTOR HT ABV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1		-0.38	-0.92	0.0	106.7	0.0000	0.0000	16
2		-0.77	-1.85	0.0	106.7	0.0000	0.0000	17
3		-1.15	-2.77	0.0	106.7	0.0000	0.0000	18
4		-1.53	-3.70	0.0	106.7	0.0000	0.0000	19
5		-1.91	-4.62	0.0	106.7	0.0000	0.0000	20
6		-2.30	-5.54	0.0	106.7	0.0000	0.0000	21
7		-2.68	-6.47	0.0	106.7	0.0000	0.0000	22
8		-3.06	-7.39	0.0	106.7	0.0000	0.0000	23
9		-3.44	-8.31	0.0	106.7	0.0000	0.0000	24
10		-3.83	-9.24	0.0	106.7	0.0000	0.0000	25
11		-5.74	-13.86	0.0	106.7	0.0000	0.0000	26
12		-7.76	-18.48	0.0	106.7	0.0000	0.0000	27
13		-9.57	-23.10	0.0	106.7	0.0000	0.0000	28
14		-11.48	-27.72	0.0	106.7	0.0000	0.0000	29
15		-15.31	-36.96	0.0	106.7	0.0000	0.0000	30
16		-19.13	-46.19	0.0	106.7	0.0000	0.0000	31
17		-0.71	-0.71	0.0	106.7	0.0000	0.0000	32
18		-1.41	-1.41	0.0	106.7	0.0000	0.0000	33
19		-2.12	-2.12	0.0	106.7	0.0000	0.0000	34
20		-2.83	-2.83	0.0	106.7	0.0000	0.0000	35
21		-3.54	-3.54	0.0	106.7	0.0000	0.0000	36
22		-4.24	-4.24	0.0	106.7	0.0000	0.0000	37
23		-4.95	-4.95	0.0	106.7	0.0000	0.0000	38
24		-5.66	-5.66	0.0	106.7	0.0000	0.0000	39
25		-6.36	-6.36	0.0	106.7	0.0000	0.0000	40
26		-7.07	-7.07	0.0	106.7	0.0000	0.0000	41
27		-10.61	-10.61	0.0	106.7	0.0000	0.0000	42
28		-14.14	-14.14	0.0	106.7	0.0000	0.0000	43
29		-17.68	-17.68	0.0	106.7	0.0000	0.0000	44
30		-21.21	-21.21	0.0	106.7	0.0000	0.0000	45
31		-28.28	-28.28	0.0	106.7	0.0000	0.0000	46
32		-35.36	-35.36	0.0	106.7	0.0000	0.0000	47
33		-0.92	-0.38	0.0	106.7	0.0000	0.0000	48
34		-1.85	-0.77	0.0	106.7	0.0000	0.0000	15
35		-2.77	-1.15	0.0	106.7	0.0000	0.0002	14
36		-3.70	-1.53	0.0	106.7	0.0000	0.0063	13
37		-4.62	-1.91	0.0	106.7	0.0000	0.0418	12
38		-5.54	-2.30	0.0	106.7	0.0000	0.1318	11
39		-6.47	-2.68	0.0	106.7	0.0000	0.2779	10
40		-7.39	-3.06	0.0	106.7	0.0000	0.4621	9
41		-8.31	-3.44	0.0	106.7	0.0000	0.6614	8
42		-9.24	-3.83	0.0	106.7	0.0000	0.8568	7
43		-13.86	-5.74	0.0	106.7	0.0000	1.4462	3
44		-18.48	-7.65	0.0	106.7	0.0000	1.6021	1
45		-23.10	-9.57	0.0	106.7	0.0000	1.5565	2
46		-27.72	-11.48	0.0	106.7	0.0000	1.4405	4
47		-36.96	-15.31	0.0	106.7	0.0000	1.1754	5
48		-46.19	-19.13	0.0	106.7	0.0000	0.9631	6
49		-1.00	0.00	0.0	106.7	0.0000	0.0000	49

50	-2.00	0.00	0.0	106.7	0.0000	0.0000	50
51	-3.00	0.00	0.0	106.7	0.0000	0.0000	51
52	-4.00	0.00	0.0	106.7	0.0000	0.0000	52
53	-5.00	0.00	0.0	106.7	0.0000	0.0000	53
54	-6.00	0.00	0.0	106.7	0.0000	0.0000	54
55	-7.00	0.00	0.0	106.7	0.0000	0.0000	55
56	-8.00	0.00	0.0	106.7	0.0000	0.0000	56
57	-9.00	0.00	0.0	106.7	0.0000	0.0000	57
58	-10.00	0.00	0.0	106.7	0.0000	0.0000	58
59	-15.00	0.00	0.0	106.7	0.0000	0.0000	59
60	-20.00	0.00	0.0	106.7	0.0000	0.0000	60
61	-25.00	0.00	0.0	106.7	0.0000	0.0000	61
62	-30.00	0.00	0.0	106.7	0.0000	0.0000	62
63	-40.00	0.00	0.0	106.7	0.0000	0.0000	63
64	-50.00	0.00	0.0	106.7	0.0000	0.0000	64
65	-0.92	0.38	0.0	106.7	0.0000	0.0000	65
66	-1.85	0.77	0.0	106.7	0.0000	0.0000	66
67	-2.77	1.15	0.0	106.7	0.0000	0.0000	67
68	-3.70	1.53	0.0	106.7	0.0000	0.0000	68
69	-4.62	1.91	0.0	106.7	0.0000	0.0000	69
70	-5.54	2.30	0.0	106.7	0.0000	0.0000	70
71	-6.47	2.68	0.0	106.7	0.0000	0.0000	71
72	-7.39	3.06	0.0	106.7	0.0000	0.0000	72
73	-8.31	3.44	0.0	106.7	0.0000	0.0000	73
74	-9.24	3.83	0.0	106.7	0.0000	0.0000	74
75	-13.86	5.74	0.0	106.7	0.0000	0.0000	75
76	-18.48	7.65	0.0	106.7	0.0000	0.0000	76
77	-23.10	9.57	0.0	106.7	0.0000	0.0000	77
78	-27.72	11.48	0.0	106.7	0.0000	0.0000	78
79	-36.96	15.31	0.0	106.7	0.0000	0.0000	79
80	-46.19	19.13	0.0	106.7	0.0000	0.0000	80
81	-0.71	0.71	0.0	106.7	0.0000	0.0000	81
82	-1.41	1.41	0.0	106.7	0.0000	0.0000	82
83	-2.12	2.12	0.0	106.7	0.0000	0.0000	83
84	-2.83	2.83	0.0	106.7	0.0000	0.0000	84
85	-3.54	3.54	0.0	106.7	0.0000	0.0000	85
86	-4.24	4.24	0.0	109.7	0.0000	0.0000	86
87	-4.95	4.95	0.0	115.8	0.0000	0.0000	87
88	-5.66	5.66	0.0	121.9	0.0000	0.0000	88
89	-6.36	6.36	0.0	121.9	0.0000	0.0000	89
90	-7.07	7.07	0.0	121.9	0.0000	0.0000	90
91	-10.61	10.61	0.0	121.9	0.0000	0.0000	91
92	-14.14	14.14	0.0	121.9	0.0000	0.0000	92
93	-17.68	17.68	0.0	121.9	0.0000	0.0000	93
94	-21.21	21.21	0.0	121.9	0.0000	0.0000	94
95	-28.28	28.28	0.0	121.9	0.0000	0.0000	95
96	-35.36	35.36	0.0	121.9	0.0000	0.0000	96
97	-0.38	0.92	0.0	106.7	0.0000	0.0000	97
98	-0.77	1.85	0.0	106.7	0.0000	0.0000	98
99	-1.15	2.77	0.0	106.7	0.0000	0.0000	99
100	-1.53	3.70	0.0	106.7	0.0000	0.0000	100
101	-1.91	4.62	0.0	106.7	0.0000	0.0000	101
102	-2.30	5.54	0.0	109.7	0.0000	0.0000	102
103	-2.68	6.47	0.0	115.8	0.0000	0.0000	103
104	-3.06	7.39	0.0	118.9	0.0000	0.0000	104
105	-3.44	8.31	0.0	121.9	0.0000	0.0000	105
106	-3.83	9.24	0.0	121.9	0.0000	0.0000	106
107	-5.74	13.86	0.0	121.9	0.0000	0.0000	107
108	-7.76	18.48	0.0	121.9	0.0000	0.0000	108
109	-9.57	23.10	0.0	121.9	0.0000	0.0000	109
110	-11.48	27.72	0.0	121.9	0.0000	0.0000	110

111	-15.31	36.96	0.0	121.9	0.0000	0.0000	111
112	-19.13	46.19	0.0	121.9	0.0000	0.0000	112
113	0.00	1.00	0.0	106.7	0.0000	0.0000	113
114	0.00	2.00	0.0	106.7	0.0000	0.0000	114
115	0.00	3.00	0.0	106.7	0.0000	0.0000	115
116	0.00	4.00	0.0	106.7	0.0000	0.0000	116
117	0.00	5.00	0.0	106.7	0.0000	0.0000	117
118	0.00	6.00	0.0	106.7	0.0000	0.0000	118
119	0.00	7.00	0.0	106.7	0.0000	0.0000	119
120	0.00	8.00	0.0	106.7	0.0000	0.0000	120
121	0.00	9.00	0.0	106.7	0.0000	0.0000	121
122	0.00	10.00	0.0	106.7	0.0000	0.0000	122
123	0.00	15.00	0.0	106.7	0.0000	0.0000	123
124	0.00	20.00	0.0	106.7	0.0000	0.0000	124
125	0.00	25.00	0.0	106.7	0.0000	0.0000	125
126	0.00	30.00	0.0	106.7	0.0000	0.0000	126
127	0.00	40.00	0.0	106.7	0.0000	0.0000	127
128	0.00	50.00	0.0	106.7	0.0000	0.0000	128

Susitna DEIS Comments
Nenana Site 200 MW Coal Fired Plant
Worst Case Impacts for SO2 Using Worst Case Coal

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 84/ 1 : HOUR 5

RECEPTOR NO.	NAME	EAST COORD	NORTH COORD	RECEPTOR HT ABV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1		-0.38	-0.92	0.0	106.7	0.0000	0.0000	16
2		-0.77	-1.85	0.0	106.7	0.0000	0.0000	17
3		-1.15	-2.77	0.0	106.7	0.0000	0.0000	18
4		-1.53	-3.70	0.0	106.7	0.0000	0.0000	19
5		-1.91	-4.62	0.0	106.7	0.0000	0.0000	20
6		-2.30	-5.54	0.0	106.7	0.0000	0.0000	21
7		-2.68	-6.47	0.0	106.7	0.0000	0.0000	22
8		-3.06	-7.39	0.0	106.7	0.0000	0.0000	23
9		-3.44	-8.31	0.0	106.7	0.0000	0.0000	24
10		-3.83	-9.24	0.0	106.7	0.0000	0.0000	25
11		-5.74	-13.86	0.0	106.7	0.0000	0.0000	26
12		-7.76	-18.48	0.0	106.7	0.0000	0.0000	27
13		-9.57	-23.10	0.0	106.7	0.0000	0.0000	28
14		-11.48	-27.72	0.0	106.7	0.0000	0.0000	29
15		-15.31	-36.96	0.0	106.7	0.0000	0.0000	30
16		-19.13	-46.19	0.0	106.7	0.0000	0.0000	31
17		-0.71	-0.71	0.0	106.7	0.0000	0.0000	32
18		-1.41	-1.41	0.0	106.7	0.0000	0.0000	33
19		-2.12	-2.12	0.0	106.7	0.0000	0.0000	34
20		-2.83	-2.83	0.0	106.7	0.0000	0.0000	35
21		-3.54	-3.54	0.0	106.7	0.0000	0.0000	36
22		-4.24	-4.24	0.0	106.7	0.0000	0.0000	37
23		-4.95	-4.95	0.0	106.7	0.0000	0.0000	38
24		-5.66	-5.66	0.0	106.7	0.0000	0.0000	39
25		-6.36	-6.36	0.0	106.7	0.0000	0.0000	40
26		-7.07	-7.07	0.0	106.7	0.0000	0.0000	41
27		-10.61	-10.61	0.0	106.7	0.0000	0.0000	42
28		-14.14	-14.14	0.0	106.7	0.0000	0.0000	43
29		-17.68	-17.68	0.0	106.7	0.0000	0.0000	44
30		-21.21	-21.21	0.0	106.7	0.0000	0.0000	45
31		-28.28	-28.28	0.0	106.7	0.0000	0.0000	46
32		-35.36	-35.36	0.0	106.7	0.0000	0.0000	47
33		-0.92	-0.38	0.0	106.7	0.0000	0.0000	48
34		-1.85	-0.77	0.0	106.7	0.0000	0.0000	49
35		-2.77	-1.15	0.0	106.7	0.0000	0.0000	50
36		-3.70	-1.53	0.0	106.7	0.0000	0.0000	51
37		-4.62	-1.91	0.0	106.7	0.0000	0.0000	52
38		-5.54	-2.30	0.0	106.7	0.0000	0.0000	53
39		-6.47	-2.68	0.0	106.7	0.0000	0.0000	54
40		-7.39	-3.06	0.0	106.7	0.0000	0.0000	55
41		-8.31	-3.44	0.0	106.7	0.0000	0.0000	56
42		-9.24	-3.83	0.0	106.7	0.0000	0.0000	57
43		-13.86	-5.74	0.0	106.7	0.0000	0.0000	58
44		-18.48	-7.65	0.0	106.7	0.0000	0.0000	59
45		-23.10	-9.57	0.0	106.7	0.0000	0.0000	60
46		-27.72	-11.48	0.0	106.7	0.0000	0.0000	61
47		-36.96	-15.31	0.0	106.7	0.0000	0.0000	62
48		-46.19	-19.13	0.0	106.7	0.0000	0.0000	63
49		-1.00	0.00	0.0	106.7	0.0000	0.0000	64

50	-2.00	0.00	0.0	106.7	0.0000	0.0000	15
51	-3.00	0.00	0.0	106.7	0.0000	0.0000	14
52	-4.00	0.00	0.0	106.7	0.0000	0.0000	13
53	-5.00	0.00	0.0	106.7	0.0000	0.0009	12
54	-6.00	0.00	0.0	106.7	0.0000	0.0067	11
55	-7.00	0.00	0.0	106.7	0.0000	0.0248	10
56	-8.00	0.00	0.0	106.7	0.0000	0.0623	9
57	-9.00	0.00	0.0	106.7	0.0000	0.1219	8
58	-10.00	0.00	0.0	106.7	0.0000	0.2017	7
59	-15.00	0.00	0.0	106.7	0.0000	0.6595	6
60	-20.00	0.00	0.0	106.7	0.0000	1.0016	5
61	-25.00	0.00	0.0	106.7	0.0000	1.1685	2
62	-30.00	0.00	0.0	106.7	0.0000	1.2177	1
63	-40.00	0.00	0.0	106.7	0.0000	1.1341	3
64	-50.00	0.00	0.0	106.7	0.0000	1.0054	4
65	-0.92	0.38	0.0	106.7	0.0000	0.0000	65
66	-1.85	0.77	0.0	106.7	0.0000	0.0000	66
67	-2.77	1.15	0.0	106.7	0.0000	0.0000	67
68	-3.70	1.53	0.0	106.7	0.0000	0.0000	68
69	-4.62	1.91	0.0	106.7	0.0000	0.0000	69
70	-5.54	2.30	0.0	106.7	0.0000	0.0000	70
71	-6.47	2.68	0.0	106.7	0.0000	0.0000	71
72	-7.39	3.06	0.0	106.7	0.0000	0.0000	72
73	-8.31	3.44	0.0	106.7	0.0000	0.0000	73
74	-9.24	3.83	0.0	106.7	0.0000	0.0000	74
75	-13.86	5.74	0.0	106.7	0.0000	0.0000	75
76	-18.48	7.65	0.0	106.7	0.0000	0.0000	76
77	-23.10	9.57	0.0	106.7	0.0000	0.0000	77
78	-27.72	11.48	0.0	106.7	0.0000	0.0000	78
79	-36.96	15.31	0.0	106.7	0.0000	0.0000	79
80	-46.19	19.13	0.0	106.7	0.0000	0.0000	80
81	-0.71	0.71	0.0	106.7	0.0000	0.0000	81
82	-1.41	1.41	0.0	106.7	0.0000	0.0000	82
83	-2.12	2.12	0.0	106.7	0.0000	0.0000	83
84	-2.83	2.83	0.0	106.7	0.0000	0.0000	84
85	-3.54	3.54	0.0	106.7	0.0000	0.0000	85
86	-4.24	4.24	0.0	109.7	0.0000	0.0000	86
87	-4.95	4.95	0.0	115.8	0.0000	0.0000	87
88	-5.66	5.66	0.0	121.9	0.0000	0.0000	88
89	-6.36	6.36	0.0	121.9	0.0000	0.0000	89
90	-7.07	7.07	0.0	121.9	0.0000	0.0000	90
91	-10.61	10.61	0.0	121.9	0.0000	0.0000	91
92	-14.14	14.14	0.0	121.9	0.0000	0.0000	92
93	-17.68	17.68	0.0	121.9	0.0000	0.0000	93
94	-21.21	21.21	0.0	121.9	0.0000	0.0000	94
95	-28.28	28.28	0.0	121.9	0.0000	0.0000	95
96	-35.36	35.36	0.0	121.9	0.0000	0.0000	96
97	-0.38	0.92	0.0	106.7	0.0000	0.0000	97
98	-0.77	1.85	0.0	106.7	0.0000	0.0000	98
99	-1.15	2.77	0.0	106.7	0.0000	0.0000	99
100	-1.53	3.70	0.0	106.7	0.0000	0.0000	100
101	-1.91	4.62	0.0	106.7	0.0000	0.0000	101
102	-2.30	5.54	0.0	109.7	0.0000	0.0000	102
103	-2.68	6.47	0.0	115.8	0.0000	0.0000	103
104	-3.06	7.39	0.0	118.9	0.0000	0.0000	104
105	-3.44	8.31	0.0	121.9	0.0000	0.0000	105
106	-3.83	9.24	0.0	121.9	0.0000	0.0000	106
107	-5.74	13.86	0.0	121.9	0.0000	0.0000	107
108	-7.76	18.48	0.0	121.9	0.0000	0.0000	108
109	-9.57	23.10	0.0	121.9	0.0000	0.0000	109
110	-11.48	27.72	0.0	121.9	0.0000	0.0000	110

111	-15.31	36.96	0.0	121.9	0.0000	0.0000	111
112	-19.13	46.19	0.0	121.9	0.0000	0.0000	112
113	0.00	1.00	0.0	106.7	0.0000	0.0000	113
114	0.00	2.00	0.0	106.7	0.0000	0.0000	114
115	0.00	3.00	0.0	106.7	0.0000	0.0000	115
116	0.00	4.00	0.0	106.7	0.0000	0.0000	116
117	0.00	5.00	0.0	106.7	0.0000	0.0000	117
118	0.00	6.00	0.0	106.7	0.0000	0.0000	118
119	0.00	7.00	0.0	106.7	0.0000	0.0000	119
120	0.00	8.00	0.0	106.7	0.0000	0.0000	120
121	0.00	9.00	0.0	106.7	0.0000	0.0000	121
122	0.00	10.00	0.0	106.7	0.0000	0.0000	122
123	0.00	15.00	0.0	106.7	0.0000	0.0000	123
124	0.00	20.00	0.0	106.7	0.0000	0.0000	124
125	0.00	25.00	0.0	106.7	0.0000	0.0000	125
126	0.00	30.00	0.0	106.7	0.0000	0.0000	126
127	0.00	40.00	0.0	106.7	0.0000	0.0000	127
128	0.00	50.00	0.0	106.7	0.0000	0.0000	128

Susitna DEIS Comments
Nenana Site 200 MW Coal Fired Plant
Worst Case Impacts for SO2 Using Worst Case Coal

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 84/ 1 : HOUR 6

RECEPTOR NO.	NAME	EAST COORD	NORTH COORD	RECEPTOR HT ABV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1		-0.38	-0.92	0.0	106.7	0.0000	0.0000	16
2		-0.77	-1.85	0.0	106.7	0.0000	0.0000	17
3		-1.15	-2.77	0.0	106.7	0.0000	0.0000	18
4		-1.53	-3.70	0.0	106.7	0.0000	0.0000	19
5		-1.91	-4.62	0.0	106.7	0.0000	0.0000	20
6		-2.30	-5.54	0.0	106.7	0.0000	0.0000	21
7		-2.68	-6.47	0.0	106.7	0.0000	0.0000	22
8		-3.06	-7.39	0.0	106.7	0.0000	0.0000	23
9		-3.44	-8.31	0.0	106.7	0.0000	0.0000	24
10		-3.83	-9.24	0.0	106.7	0.0000	0.0000	25
11		-5.74	-13.86	0.0	106.7	0.0000	0.0000	26
12		-7.76	-18.48	0.0	106.7	0.0000	0.0000	27
13		-9.57	-23.10	0.0	106.7	0.0000	0.0000	28
14		-11.48	-27.72	0.0	106.7	0.0000	0.0000	29
15		-15.31	-36.96	0.0	106.7	0.0000	0.0000	30
16		-19.13	-46.19	0.0	106.7	0.0000	0.0000	31
17		-0.71	-0.71	0.0	106.7	0.0000	0.0000	32
18		-1.41	-1.41	0.0	106.7	0.0000	0.0000	33
19		-2.12	-2.12	0.0	106.7	0.0000	0.0000	34
20		-2.83	-2.83	0.0	106.7	0.0000	0.0000	35
21		-3.54	-3.54	0.0	106.7	0.0000	0.0000	36
22		-4.24	-4.24	0.0	106.7	0.0000	0.0000	37
23		-4.95	-4.95	0.0	106.7	0.0000	0.0000	38
24		-5.66	-5.66	0.0	106.7	0.0000	0.0000	39
25		-6.36	-6.36	0.0	106.7	0.0000	0.0000	40
26		-7.07	-7.07	0.0	106.7	0.0000	0.0000	41
27		-10.61	-10.61	0.0	106.7	0.0000	0.0000	42
28		-14.14	-14.14	0.0	106.7	0.0000	0.0000	43
29		-17.68	-17.68	0.0	106.7	0.0000	0.0000	44
30		-21.21	-21.21	0.0	106.7	0.0000	0.0000	45
31		-28.28	-28.28	0.0	106.7	0.0000	0.0000	46
32		-35.36	-35.36	0.0	106.7	0.0000	0.0000	47
33		-0.92	-0.38	0.0	106.7	0.0000	0.0000	48
34		-1.85	-0.77	0.0	106.7	0.0000	0.0000	49
35		-2.77	-1.15	0.0	106.7	0.0000	0.0000	50
36		-3.70	-1.53	0.0	106.7	0.0000	0.0000	51
37		-4.62	-1.91	0.0	106.7	0.0000	0.0000	52
38		-5.54	-2.30	0.0	106.7	0.0000	0.0000	53
39		-6.47	-2.68	0.0	106.7	0.0000	0.0000	54
40		-7.39	-3.06	0.0	106.7	0.0000	0.0000	55
41		-8.31	-3.44	0.0	106.7	0.0000	0.0000	56
42		-9.24	-3.83	0.0	106.7	0.0000	0.0000	57
43		-13.86	-5.74	0.0	106.7	0.0000	0.0000	58
44		-18.48	-7.65	0.0	106.7	0.0000	0.0000	59
45		-23.10	-9.57	0.0	106.7	0.0000	0.0000	60
46		-27.72	-11.48	0.0	106.7	0.0000	0.0000	61
47		-36.96	-15.31	0.0	106.7	0.0000	0.0000	62
48		-46.19	-19.13	0.0	106.7	0.0000	0.0000	63
49		-1.00	0.00	0.0	106.7	0.0000	0.0000	64

50	-2.00	0.00	0.0	106.7	0.0000	0.0000	65
51	-3.00	0.00	0.0	106.7	0.0000	0.0000	66
52	-4.00	0.00	0.0	106.7	0.0000	0.0000	67
53	-5.00	0.00	0.0	106.7	0.0000	0.0000	68
54	-6.00	0.00	0.0	106.7	0.0000	0.0000	69
55	-7.00	0.00	0.0	106.7	0.0000	0.0000	70
56	-8.00	0.00	0.0	106.7	0.0000	0.0000	71
57	-9.00	0.00	0.0	106.7	0.0000	0.0000	72
58	-10.00	0.00	0.0	106.7	0.0000	0.0000	73
59	-15.00	0.00	0.0	106.7	0.0000	0.0000	74
60	-20.00	0.00	0.0	106.7	0.0000	0.0000	75
61	-25.00	0.00	0.0	106.7	0.0000	0.0000	76
62	-30.00	0.00	0.0	106.7	0.0000	0.0000	77
63	-40.00	0.00	0.0	106.7	0.0000	0.0000	78
64	-50.00	0.00	0.0	106.7	0.0000	0.0000	79
65	-0.92	0.38	0.0	106.7	0.0000	0.0000	80
66	-1.85	0.77	0.0	106.7	0.0000	0.0000	15
67	-2.77	1.15	0.0	106.7	0.0000	0.0000	14
68	-3.70	1.53	0.0	106.7	0.0000	0.0000	13
69	-4.62	1.91	0.0	106.7	0.0000	0.0003	12
70	-5.54	2.30	0.0	106.7	0.0000	0.0029	11
71	-6.47	2.68	0.0	106.7	0.0000	0.0127	10
72	-7.39	3.06	0.0	106.7	0.0000	0.0356	9
73	-8.31	3.44	0.0	106.7	0.0000	0.0758	8
74	-9.24	3.83	0.0	106.7	0.0000	0.1337	7
75	-13.86	5.74	0.0	106.7	0.0000	0.5213	6
76	-18.48	7.65	0.0	106.7	0.0000	0.8610	5
77	-23.10	9.57	0.0	106.7	0.0000	1.0546	3
78	-27.72	11.48	0.0	106.7	0.0000	1.1342	1
79	-36.96	15.31	0.0	106.7	0.0000	1.0941	2
80	-46.19	19.13	0.0	106.7	0.0000	0.9905	4
81	-0.71	0.71	0.0	106.7	0.0000	0.0000	81
82	-1.41	1.41	0.0	106.7	0.0000	0.0000	82
83	-2.12	2.12	0.0	106.7	0.0000	0.0000	83
84	-2.83	2.83	0.0	106.7	0.0000	0.0000	84
85	-3.54	3.54	0.0	106.7	0.0000	0.0000	85
86	-4.24	4.24	0.0	109.7	0.0000	0.0000	86
87	-4.95	4.95	0.0	115.8	0.0000	0.0000	87
88	-5.66	5.66	0.0	121.9	0.0000	0.0000	88
89	-6.36	6.36	0.0	121.9	0.0000	0.0000	89
90	-7.07	7.07	0.0	121.9	0.0000	0.0000	90
91	-10.61	10.61	0.0	121.9	0.0000	0.0000	91
92	-14.14	14.14	0.0	121.9	0.0000	0.0000	92
93	-17.68	17.68	0.0	121.9	0.0000	0.0000	93
94	-21.21	21.21	0.0	121.9	0.0000	0.0000	94
95	-28.28	28.28	0.0	121.9	0.0000	0.0000	95
96	-35.36	35.36	0.0	121.9	0.0000	0.0000	96
97	-0.38	0.92	0.0	106.7	0.0000	0.0000	97
98	-0.77	1.85	0.0	106.7	0.0000	0.0000	98
99	-1.15	2.77	0.0	106.7	0.0000	0.0000	99
100	-1.53	3.70	0.0	106.7	0.0000	0.0000	100
101	-1.91	4.62	0.0	106.7	0.0000	0.0000	101
102	-2.30	5.54	0.0	109.7	0.0000	0.0000	102
103	-2.68	6.47	0.0	115.8	0.0000	0.0000	103
104	-3.06	7.39	0.0	118.9	0.0000	0.0000	104
105	-3.44	8.31	0.0	121.9	0.0000	0.0000	105
106	-3.83	9.24	0.0	121.9	0.0000	0.0000	106
107	-5.74	13.86	0.0	121.9	0.0000	0.0000	107
108	-7.76	19.48	0.0	121.9	0.0000	0.0000	108
109	-9.57	23.10	0.0	121.9	0.0000	0.0000	109
110	-11.48	27.72	0.0	121.9	0.0000	0.0000	110

111	-15.31	36.96	0.0	121.9	0.0000	0.0000	111
112	-19.13	46.19	0.0	121.9	0.0000	0.0000	112
113	0.00	1.00	0.0	106.7	0.0000	0.0000	113
114	0.00	2.00	0.0	106.7	0.0000	0.0000	114
115	0.00	3.00	0.0	106.7	0.0000	0.0000	115
116	0.00	4.00	0.0	106.7	0.0000	0.0000	116
117	0.00	5.00	0.0	106.7	0.0000	0.0000	117
118	0.00	6.00	0.0	106.7	0.0000	0.0000	118
119	0.00	7.00	0.0	106.7	0.0000	0.0000	119
120	0.00	8.00	0.0	106.7	0.0000	0.0000	120
121	0.00	9.00	0.0	106.7	0.0000	0.0000	121
122	0.00	10.00	0.0	106.7	0.0000	0.0000	122
123	0.00	15.00	0.0	106.7	0.0000	0.0000	123
124	0.00	20.00	0.0	106.7	0.0000	0.0000	124
125	0.00	25.00	0.0	106.7	0.0000	0.0000	125
126	0.00	30.00	0.0	106.7	0.0000	0.0000	126
127	0.00	40.00	0.0	106.7	0.0000	0.0000	127
128	0.00	50.00	0.0	106.7	0.0000	0.0000	128

Susitna DEIS Comments
Nenana Site 200 MW Coal Fired Plant
Worst Case Impacts for SO2 Using Worst Case Coal

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 84/ 1 : HOUR 7

RECEPTOR NO.	NAME	EAST COORD	NORTH COORD	RECEPTOR HT ABV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1		-0.38	-0.92	0.0	106.7	0.0000	0.0000	15
2		-0.77	-1.85	0.0	106.7	0.0000	0.0000	16
3		-1.15	-2.77	0.0	106.7	0.0000	0.0000	17
4		-1.53	-3.70	0.0	106.7	0.0000	0.0000	18
5		-1.91	-4.62	0.0	106.7	0.0000	0.0000	19
6		-2.30	-5.54	0.0	106.7	0.0000	0.0000	20
7		-2.68	-6.47	0.0	106.7	0.0000	0.0000	21
8		-3.06	-7.39	0.0	106.7	0.0000	0.0000	22
9		-3.44	-8.31	0.0	106.7	0.0000	0.0000	23
10		-3.83	-9.24	0.0	106.7	0.0000	0.0000	24
11		-5.74	-13.86	0.0	106.7	0.0000	0.0000	25
12		-7.76	-18.48	0.0	106.7	0.0000	0.0000	26
13		-9.57	-23.10	0.0	106.7	0.0000	0.0000	27
14		-11.48	-27.72	0.0	106.7	0.0000	0.0000	28
15		-15.31	-36.96	0.0	106.7	0.0000	0.0000	29
16		-19.13	-46.19	0.0	106.7	0.0000	0.0000	30
17		-0.71	-0.71	0.0	106.7	0.0000	0.0000	31
18		-1.41	-1.41	0.0	106.7	0.0000	0.0000	32
19		-2.12	-2.12	0.0	106.7	0.0000	0.0000	33
20		-2.83	-2.83	0.0	106.7	0.0000	0.0000	34
21		-3.54	-3.54	0.0	106.7	0.0000	0.0000	35
22		-4.24	-4.24	0.0	106.7	0.0000	0.0000	36
23		-4.95	-4.95	0.0	106.7	0.0000	0.0000	37
24		-5.66	-5.66	0.0	106.7	0.0000	0.0000	38
25		-6.36	-6.36	0.0	106.7	0.0000	0.0000	39
26		-7.07	-7.07	0.0	106.7	0.0000	0.0000	40
27		-10.61	-10.61	0.0	106.7	0.0000	0.0000	41
28		-14.14	-14.14	0.0	106.7	0.0000	0.0000	42
29		-17.68	-17.68	0.0	106.7	0.0000	0.0000	43
30		-21.21	-21.21	0.0	106.7	0.0000	0.0000	44
31		-28.28	-28.28	0.0	106.7	0.0000	0.0000	45
32		-35.36	-35.36	0.0	106.7	0.0000	0.0000	46
33		-0.92	-0.38	0.0	106.7	0.0000	0.0000	47
34		-1.85	-0.77	0.0	106.7	0.0000	0.0000	48
35		-2.77	-1.15	0.0	106.7	0.0000	0.0000	49
36		-3.70	-1.53	0.0	106.7	0.0000	0.0000	50
37		-4.62	-1.91	0.0	106.7	0.0000	0.0000	51
38		-5.54	-2.30	0.0	106.7	0.0000	0.0000	52
39		-6.47	-2.68	0.0	106.7	0.0000	0.0000	53
40		-7.39	-3.06	0.0	106.7	0.0000	0.0000	54
41		-8.31	-3.44	0.0	106.7	0.0000	0.0000	55
42		-9.24	-3.83	0.0	106.7	0.0000	0.0000	56
43		-13.86	-5.74	0.0	106.7	0.0000	0.0000	57
44		-18.48	-7.65	0.0	106.7	0.0000	0.0000	58
45		-23.10	-9.57	0.0	106.7	0.0000	0.0000	59
46		-27.72	-11.48	0.0	106.7	0.0000	0.0000	60
47		-36.96	-15.31	0.0	106.7	0.0000	0.0000	61
48		-46.19	-19.13	0.0	106.7	0.0000	0.0000	62
49		-1.00	0.00	0.0	106.7	0.0000	0.0000	63

50	-2.00	0.00	0.0	106.7	0.0000	0.0000	64
51	-3.00	0.00	0.0	106.7	0.0000	0.0000	65
52	-4.00	0.00	0.0	106.7	0.0000	0.0000	66
53	-5.00	0.00	0.0	106.7	0.0000	0.0000	67
54	-6.00	0.00	0.0	106.7	0.0000	0.0000	68
55	-7.00	0.00	0.0	106.7	0.0000	0.0000	69
56	-8.00	0.00	0.0	106.7	0.0000	0.0000	70
57	-9.00	0.00	0.0	106.7	0.0000	0.0000	71
58	-10.00	0.00	0.0	106.7	0.0000	0.0000	72
59	-15.00	0.00	0.0	106.7	0.0000	0.0000	73
60	-20.00	0.00	0.0	106.7	0.0000	0.0000	74
61	-25.00	0.00	0.0	106.7	0.0000	0.0000	75
62	-30.00	0.00	0.0	106.7	0.0000	0.0000	76
63	-40.00	0.00	0.0	106.7	0.0000	0.0000	77
64	-50.00	0.00	0.0	106.7	0.0000	0.0000	78
65	-0.92	0.38	0.0	106.7	0.0000	0.0000	79
66	-1.85	0.77	0.0	106.7	0.0000	0.0000	80
67	-2.77	1.15	0.0	106.7	0.0000	0.0000	81
68	-3.70	1.53	0.0	106.7	0.0000	0.0000	82
69	-4.62	1.91	0.0	106.7	0.0000	0.0000	83
70	-5.54	2.30	0.0	106.7	0.0000	0.0000	84
71	-6.47	2.68	0.0	106.7	0.0000	0.0000	85
72	-7.39	3.06	0.0	106.7	0.0000	0.0000	86
73	-8.31	3.44	0.0	106.7	0.0000	0.0000	87
74	-9.24	3.83	0.0	106.7	0.0000	0.0000	88
75	-13.86	5.74	0.0	106.7	0.0000	0.0000	89
76	-18.48	7.65	0.0	106.7	0.0000	0.0000	90
77	-23.10	9.57	0.0	106.7	0.0000	0.0000	91
78	-27.72	11.48	0.0	106.7	0.0000	0.0000	92
79	-36.96	15.31	0.0	106.7	0.0000	0.0000	93
80	-46.19	19.13	0.0	106.7	0.0000	0.0000	94
81	-0.71	0.71	0.0	106.7	0.0000	0.0000	95
82	-1.41	1.41	0.0	106.7	0.0000	0.0000	96
83	-2.12	2.12	0.0	106.7	0.0000	0.0000	14
84	-2.83	2.83	0.0	106.7	0.0000	0.0000	13
85	-3.54	3.54	0.0	106.7	0.0000	0.0000	12
86	-4.24	4.24	0.0	109.7	0.0000	0.0000	11
87	-4.95	4.95	0.0	115.8	0.0000	0.0000	10
88	-5.66	5.66	0.0	121.9	0.0000	0.0001	9
89	-6.36	6.36	0.0	121.9	0.0000	0.0006	8
90	-7.07	7.07	0.0	121.9	0.0000	0.0021	7
91	-10.61	10.61	0.0	121.9	0.0000	0.0425	6
92	-14.14	14.14	0.0	121.9	0.0000	0.1566	5
93	-17.68	17.68	0.0	121.9	0.0000	0.3069	4
94	-21.21	21.21	0.0	121.9	0.0000	0.4484	3
95	-28.28	28.28	0.0	121.9	0.0000	0.6091	2
96	-35.36	35.36	0.0	121.9	0.0000	0.6770	1
97	-0.38	0.92	0.0	106.7	0.0000	0.0000	97
98	-0.77	1.85	0.0	106.7	0.0000	0.0000	98
99	-1.15	2.77	0.0	106.7	0.0000	0.0000	99
100	-1.53	3.70	0.0	106.7	0.0000	0.0000	100
101	-1.91	4.62	0.0	106.7	0.0000	0.0000	101
102	-2.30	5.54	0.0	109.7	0.0000	0.0000	102
103	-2.68	6.47	0.0	115.8	0.0000	0.0000	103
104	-3.06	7.39	0.0	118.9	0.0000	0.0000	104
105	-3.44	8.31	0.0	121.9	0.0000	0.0000	105
106	-3.83	9.24	0.0	121.9	0.0000	0.0000	106
107	-5.74	13.86	0.0	121.9	0.0000	0.0000	107
108	-7.76	18.48	0.0	121.9	0.0000	0.0000	108
109	-9.57	23.10	0.0	121.9	0.0000	0.0000	109
110	-11.48	27.72	0.0	121.9	0.0000	0.0000	110

111	-15.31	36.96	0.0	121.9	0.0000	0.0000	111
112	-19.13	46.19	0.0	121.9	0.0000	0.0000	112
113	0.00	1.00	0.0	106.7	0.0000	0.0000	113
114	0.00	2.00	0.0	106.7	0.0000	0.0000	114
115	0.00	3.00	0.0	106.7	0.0000	0.0000	115
116	0.00	4.00	0.0	106.7	0.0000	0.0000	116
117	0.00	5.00	0.0	106.7	0.0000	0.0000	117
118	0.00	6.00	0.0	106.7	0.0000	0.0000	118
119	0.00	7.00	0.0	106.7	0.0000	0.0000	119
120	0.00	8.00	0.0	106.7	0.0000	0.0000	120
121	0.00	9.00	0.0	106.7	0.0000	0.0000	121
122	0.00	10.00	0.0	106.7	0.0000	0.0000	122
123	0.00	15.00	0.0	106.7	0.0000	0.0000	123
124	0.00	20.00	0.0	106.7	0.0000	0.0000	124
125	0.00	25.00	0.0	106.7	0.0000	0.0000	125
126	0.00	30.00	0.0	106.7	0.0000	0.0000	126
127	0.00	40.00	0.0	106.7	0.0000	0.0000	127
128	0.00	50.00	0.0	106.7	0.0000	0.0000	128

Susitna DEIS Comments
Nanana Site 200 MW Coal Fired Plant
Worst Case Impacts for SO2 Using Worst Case Coal

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 84/ 1 : HOUR 8

RECEPTOR NO.	NAME	EAST COORD	NORTH COORD	RECEPTOR HT ABV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1		-0.38	-0.92	0.0	106.7	0.0000	0.0000	15
2		-0.77	-1.85	0.0	106.7	0.0000	0.0000	16
3		-1.15	-2.77	0.0	106.7	0.0000	0.0000	17
4		-1.53	-3.70	0.0	106.7	0.0000	0.0000	18
5		-1.91	-4.62	0.0	106.7	0.0000	0.0000	19
6		-2.30	-5.54	0.0	106.7	0.0000	0.0000	20
7		-2.68	-6.47	0.0	106.7	0.0000	0.0000	21
8		-3.06	-7.39	0.0	106.7	0.0000	0.0000	22
9		-3.44	-8.31	0.0	106.7	0.0000	0.0000	23
10		-3.83	-9.24	0.0	106.7	0.0000	0.0000	24
11		-5.74	-13.86	0.0	106.7	0.0000	0.0000	25
12		-7.76	-18.48	0.0	106.7	0.0000	0.0000	26
13		-9.57	-23.10	0.0	106.7	0.0000	0.0000	27
14		-11.48	-27.72	0.0	106.7	0.0000	0.0000	28
15		-15.31	-36.96	0.0	106.7	0.0000	0.0000	29
16		-19.13	-46.19	0.0	106.7	0.0000	0.0000	30
17		-0.71	-0.71	0.0	106.7	0.0000	0.0000	31
18		-1.41	-1.41	0.0	106.7	0.0000	0.0000	32
19		-2.12	-2.12	0.0	106.7	0.0000	0.0000	33
20		-2.83	-2.83	0.0	106.7	0.0000	0.0000	34
21		-3.54	-3.54	0.0	106.7	0.0000	0.0000	35
22		-4.24	-4.24	0.0	106.7	0.0000	0.0000	36
23		-4.95	-4.95	0.0	106.7	0.0000	0.0000	37
24		-5.66	-5.66	0.0	106.7	0.0000	0.0000	38
25		-6.36	-6.36	0.0	106.7	0.0000	0.0000	39
26		-7.07	-7.07	0.0	106.7	0.0000	0.0000	40
27		-10.61	-10.61	0.0	106.7	0.0000	0.0000	41
28		-14.14	-14.14	0.0	106.7	0.0000	0.0000	42
29		-17.68	-17.68	0.0	106.7	0.0000	0.0000	43
30		-21.21	-21.21	0.0	106.7	0.0000	0.0000	44
31		-28.28	-28.28	0.0	106.7	0.0000	0.0000	45
32		-35.36	-35.36	0.0	106.7	0.0000	0.0000	46
33		-0.92	-0.38	0.0	106.7	0.0000	0.0000	47
34		-1.85	-0.77	0.0	106.7	0.0000	0.0000	48
35		-2.77	-1.15	0.0	106.7	0.0000	0.0000	49
36		-3.70	-1.53	0.0	106.7	0.0000	0.0000	50
37		-4.62	-1.91	0.0	106.7	0.0000	0.0000	51
38		-5.54	-2.30	0.0	106.7	0.0000	0.0000	52
39		-6.47	-2.68	0.0	106.7	0.0000	0.0000	53
40		-7.39	-3.06	0.0	106.7	0.0000	0.0000	54
41		-8.31	-3.44	0.0	106.7	0.0000	0.0000	55
42		-9.24	-3.83	0.0	106.7	0.0000	0.0000	56
43		-13.86	-5.74	0.0	106.7	0.0000	0.0000	57
44		-18.48	-7.65	0.0	106.7	0.0000	0.0000	58
45		-23.10	-9.57	0.0	106.7	0.0000	0.0000	59
46		-27.72	-11.48	0.0	106.7	0.0000	0.0000	60
47		-36.96	-15.31	0.0	106.7	0.0000	0.0000	61
48		-46.19	-19.13	0.0	106.7	0.0000	0.0000	62
49		-1.00	0.00	0.0	106.7	0.0000	0.0000	63

50	-2.00	0.00	0.0	106.7	0.0000	0.0000	64
51	-3.00	0.00	0.0	106.7	0.0000	0.0000	65
52	-4.00	0.00	0.0	106.7	0.0000	0.0000	66
53	-5.00	0.00	0.0	106.7	0.0000	0.0000	67
54	-6.00	0.00	0.0	106.7	0.0000	0.0000	68
55	-7.00	0.00	0.0	106.7	0.0000	0.0000	69
56	-8.00	0.00	0.0	106.7	0.0000	0.0000	70
57	-9.00	0.00	0.0	106.7	0.0000	0.0000	71
58	-10.00	0.00	0.0	106.7	0.0000	0.0000	72
59	-15.00	0.00	0.0	106.7	0.0000	0.0000	73
60	-20.00	0.00	0.0	106.7	0.0000	0.0000	74
61	-25.00	0.00	0.0	106.7	0.0000	0.0000	75
62	-30.00	0.00	0.0	106.7	0.0000	0.0000	76
63	-40.00	0.00	0.0	106.7	0.0000	0.0000	77
64	-50.00	0.00	0.0	106.7	0.0000	0.0000	78
65	-0.92	0.38	0.0	106.7	0.0000	0.0000	79
66	-1.85	0.77	0.0	106.7	0.0000	0.0000	80
67	-2.77	1.15	0.0	106.7	0.0000	0.0000	81
68	-3.70	1.53	0.0	106.7	0.0000	0.0000	82
69	-4.62	1.91	0.0	106.7	0.0000	0.0000	83
70	-5.54	2.30	0.0	106.7	0.0000	0.0000	84
71	-6.47	2.68	0.0	106.7	0.0000	0.0000	85
72	-7.39	3.06	0.0	106.7	0.0000	0.0000	86
73	-8.31	3.44	0.0	106.7	0.0000	0.0000	87
74	-9.24	3.83	0.0	106.7	0.0000	0.0000	88
75	-13.86	5.74	0.0	106.7	0.0000	0.0000	89
76	-18.48	7.65	0.0	106.7	0.0000	0.0000	90
77	-23.10	9.57	0.0	106.7	0.0000	0.0000	91
78	-27.72	11.48	0.0	106.7	0.0000	0.0000	92
79	-36.96	15.31	0.0	106.7	0.0000	0.0000	93
80	-46.19	19.13	0.0	106.7	0.0000	0.0000	94
81	-0.71	0.71	0.0	106.7	0.0000	0.0000	95
82	-1.41	1.41	0.0	106.7	0.0000	0.0000	96
83	-2.12	2.12	0.0	106.7	0.0000	0.0000	97
84	-2.83	2.83	0.0	106.7	0.0000	0.0000	98
85	-3.54	3.54	0.0	106.7	0.0000	0.0000	99
86	-4.24	4.24	0.0	109.7	0.0000	0.0000	100
87	-4.95	4.95	0.0	115.8	0.0000	0.0000	101
88	-5.66	5.66	0.0	121.9	0.0000	0.0000	102
89	-6.36	6.36	0.0	121.9	0.0000	0.0000	103
90	-7.07	7.07	0.0	121.9	0.0000	0.0000	104
91	-10.61	10.61	0.0	121.9	0.0000	0.0000	105
92	-14.14	14.14	0.0	121.9	0.0000	0.0000	106
93	-17.68	17.68	0.0	121.9	0.0000	0.0000	107
94	-21.21	21.21	0.0	121.9	0.0000	0.0000	108
95	-28.28	28.28	0.0	121.9	0.0000	0.0000	109
96	-35.36	35.36	0.0	121.9	0.0000	0.0000	110
97	-0.38	0.92	0.0	106.7	0.0000	0.0000	111
98	-0.77	1.85	0.0	106.7	0.0000	0.0000	112
99	-1.15	2.77	0.0	106.7	0.0000	0.0000	14
100	-1.53	3.70	0.0	106.7	0.0000	0.0000	13
101	-1.91	4.62	0.0	106.7	0.0000	0.0000	12
102	-2.30	5.54	0.0	109.7	0.0000	0.0000	11
103	-2.68	6.47	0.0	115.8	0.0000	0.0003	10
104	-3.06	7.39	0.0	118.9	0.0000	0.0016	9
105	-3.44	8.31	0.0	121.9	0.0000	0.0054	8
106	-3.83	9.24	0.0	121.9	0.0000	0.0134	7
107	-5.74	13.86	0.0	121.9	0.0000	0.1317	6
108	-7.76	18.48	0.0	121.9	0.0000	0.3431	5
109	-9.57	23.10	0.0	121.9	0.0000	0.5444	4
110	-11.48	27.72	0.0	121.9	0.0000	0.6959	3

111	-15.31	36.96	0.0	121.9	0.0000	0.8144	2
112	-19.13	46.19	0.0	121.9	0.0000	0.8279	1
113	0.00	1.00	0.0	106.7	0.0000	0.0000	113
114	0.00	2.00	0.0	106.7	0.0000	0.0000	114
115	0.00	3.00	0.0	106.7	0.0000	0.0000	115
116	0.00	4.00	0.0	106.7	0.0000	0.0000	116
117	0.00	5.00	0.0	106.7	0.0000	0.0000	117
118	0.00	6.00	0.0	106.7	0.0000	0.0000	118
119	0.00	7.00	0.0	106.7	0.0000	0.0000	119
120	0.00	8.00	0.0	106.7	0.0000	0.0000	120
121	0.00	9.00	0.0	106.7	0.0000	0.0000	121
122	0.00	10.00	0.0	106.7	0.0000	0.0000	122
123	0.00	15.00	0.0	106.7	0.0000	0.0000	123
124	0.00	20.00	0.0	106.7	0.0000	0.0000	124
125	0.00	25.00	0.0	106.7	0.0000	0.0000	125
126	0.00	30.00	0.0	106.7	0.0000	0.0000	126
127	0.00	40.00	0.0	106.7	0.0000	0.0000	127
128	0.00	50.00	0.0	106.7	0.0000	0.0000	128

Susitna DEIS Comments
Nenana Site 200 MW Coal Fired Plant
Worst Case Impacts for SO2 Using Worst Case Coal

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 84/ 1 : HOUR 9

RECEPTOR NO.	NAME	EAST COORD	NORTH COORD	RECEPTOR HT ABV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1		-0.38	-0.92	0.0	106.7	0.0000	0.0000	15
2		-0.77	-1.85	0.0	106.7	0.0000	0.0000	16
3		-1.15	-2.77	0.0	106.7	0.0000	0.0000	17
4		-1.53	-3.70	0.0	106.7	0.0000	0.0000	18
5		-1.91	-4.62	0.0	106.7	0.0000	0.0000	19
6		-2.30	-5.54	0.0	106.7	0.0000	0.0000	20
7		-2.68	-6.47	0.0	106.7	0.0000	0.0000	21
8		-3.06	-7.39	0.0	106.7	0.0000	0.0000	22
9		-3.44	-8.31	0.0	106.7	0.0000	0.0000	23
10		-3.83	-9.24	0.0	106.7	0.0000	0.0000	24
11		-5.74	-13.86	0.0	106.7	0.0000	0.0000	25
12		-7.76	-18.48	0.0	106.7	0.0000	0.0000	26
13		-9.57	-23.10	0.0	106.7	0.0000	0.0000	27
14		-11.48	-27.72	0.0	106.7	0.0000	0.0000	28
15		-15.31	-36.96	0.0	106.7	0.0000	0.0000	29
16		-19.13	-46.19	0.0	106.7	0.0000	0.0000	30
17		-0.71	-0.71	0.0	106.7	0.0000	0.0000	31
18		-1.41	-1.41	0.0	106.7	0.0000	0.0000	32
19		-2.12	-2.12	0.0	106.7	0.0000	0.0000	33
20		-2.83	-2.83	0.0	106.7	0.0000	0.0000	34
21		-3.54	-3.54	0.0	106.7	0.0000	0.0000	35
22		-4.24	-4.24	0.0	106.7	0.0000	0.0000	36
23		-4.95	-4.95	0.0	106.7	0.0000	0.0000	37
24		-5.66	-5.66	0.0	106.7	0.0000	0.0000	38
25		-6.36	-6.36	0.0	106.7	0.0000	0.0000	39
26		-7.07	-7.07	0.0	106.7	0.0000	0.0000	40
27		-10.61	-10.61	0.0	106.7	0.0000	0.0000	41
28		-14.14	-14.14	0.0	106.7	0.0000	0.0000	42
29		-17.68	-17.68	0.0	106.7	0.0000	0.0000	43
30		-21.21	-21.21	0.0	106.7	0.0000	0.0000	44
31		-28.28	-28.28	0.0	106.7	0.0000	0.0000	45
32		-35.36	-35.36	0.0	106.7	0.0000	0.0000	46
33		-0.92	-0.38	0.0	106.7	0.0000	0.0000	47
34		-1.85	-0.77	0.0	106.7	0.0000	0.0000	48
35		-2.77	-1.15	0.0	106.7	0.0000	0.0000	49
36		-3.70	-1.53	0.0	106.7	0.0000	0.0000	50
37		-4.62	-1.91	0.0	106.7	0.0000	0.0000	51
38		-5.54	-2.30	0.0	106.7	0.0000	0.0000	52
39		-6.47	-2.68	0.0	106.7	0.0000	0.0000	53
40		-7.39	-3.06	0.0	106.7	0.0000	0.0000	54
41		-8.31	-3.44	0.0	106.7	0.0000	0.0000	55
42		-9.24	-3.83	0.0	106.7	0.0000	0.0000	56
43		-13.86	-5.74	0.0	106.7	0.0000	0.0000	57
44		-18.48	-7.65	0.0	106.7	0.0000	0.0000	58
45		-23.10	-9.57	0.0	106.7	0.0000	0.0000	59
46		-27.72	-11.48	0.0	106.7	0.0000	0.0000	60
47		-36.96	-15.31	0.0	106.7	0.0000	0.0000	61
48		-46.19	-19.13	0.0	106.7	0.0000	0.0000	62
49		-1.00	0.00	0.0	106.7	0.0000	0.0000	63

18

50	-2.00	0.00	0.0	106.7	0.0000	0.0000	64
51	-3.00	0.00	0.0	106.7	0.0000	0.0000	65
52	-4.00	0.00	0.0	106.7	0.0000	0.0000	66
53	-5.00	0.00	0.0	106.7	0.0000	0.0000	67
54	-6.00	0.00	0.0	106.7	0.0000	0.0000	68
55	-7.00	0.00	0.0	106.7	0.0000	0.0000	69
56	-8.00	0.00	0.0	106.7	0.0000	0.0000	70
57	-9.00	0.00	0.0	106.7	0.0000	0.0000	71
58	-10.00	0.00	0.0	106.7	0.0000	0.0000	72
59	-15.00	0.00	0.0	106.7	0.0000	0.0000	73
60	-20.00	0.00	0.0	106.7	0.0000	0.0000	74
61	-25.00	0.00	0.0	106.7	0.0000	0.0000	75
62	-30.00	0.00	0.0	106.7	0.0000	0.0000	76
63	-40.00	0.00	0.0	106.7	0.0000	0.0000	77
64	-50.00	0.00	0.0	106.7	0.0000	0.0000	78
65	-0.92	0.38	0.0	106.7	0.0000	0.0000	79
66	-1.85	0.77	0.0	106.7	0.0000	0.0000	80
67	-2.77	1.15	0.0	106.7	0.0000	0.0000	81
68	-3.70	1.53	0.0	106.7	0.0000	0.0000	82
69	-4.62	1.91	0.0	106.7	0.0000	0.0000	83
70	-5.54	2.30	0.0	106.7	0.0000	0.0000	84
71	-6.47	2.68	0.0	106.7	0.0000	0.0000	85
72	-7.39	3.06	0.0	106.7	0.0000	0.0000	86
73	-8.31	3.44	0.0	106.7	0.0000	0.0000	87
74	-9.24	3.83	0.0	106.7	0.0000	0.0000	88
75	-13.86	5.74	0.0	106.7	0.0000	0.0000	89
76	-18.48	7.65	0.0	106.7	0.0000	0.0000	90
77	-23.10	9.57	0.0	106.7	0.0000	0.0000	91
78	-27.72	11.48	0.0	106.7	0.0000	0.0000	92
79	-36.96	15.31	0.0	106.7	0.0000	0.0000	93
80	-46.19	19.13	0.0	106.7	0.0000	0.0000	94
81	-0.71	0.71	0.0	106.7	0.0000	0.0000	95
82	-1.41	1.41	0.0	106.7	0.0000	0.0000	96
83	-2.12	2.12	0.0	106.7	0.0000	0.0000	97
84	-2.83	2.83	0.0	106.7	0.0000	0.0000	98
85	-3.54	3.54	0.0	106.7	0.0000	0.0000	99
86	-4.24	4.24	0.0	109.7	0.0000	0.0000	100
87	-4.95	4.95	0.0	115.8	0.0000	0.0000	101
88	-5.66	5.66	0.0	121.9	0.0000	0.0000	102
89	-6.36	6.36	0.0	121.9	0.0000	0.0000	103
90	-7.07	7.07	0.0	121.9	0.0000	0.0000	104
91	-10.61	10.61	0.0	121.9	0.0000	0.0000	105
92	-14.14	14.14	0.0	121.9	0.0000	0.0000	106
93	-17.68	17.68	0.0	121.9	0.0000	0.0000	107
94	-21.21	21.21	0.0	121.9	0.0000	0.0000	108
95	-28.28	28.28	0.0	121.9	0.0000	0.0000	109
96	-35.36	35.36	0.0	121.9	0.0000	0.0000	110
97	-0.38	0.92	0.0	106.7	0.0000	0.0000	111
98	-0.77	1.85	0.0	106.7	0.0000	0.0000	112
99	-1.15	2.77	0.0	106.7	0.0000	0.0000	113
100	-1.53	3.70	0.0	106.7	0.0000	0.0000	114
101	-1.91	4.62	0.0	106.7	0.0000	0.0000	115
102	-2.30	5.54	0.0	109.7	0.0000	0.0000	116
103	-2.68	6.47	0.0	115.8	0.0000	0.0000	117
104	-3.06	7.39	0.0	118.9	0.0000	0.0000	118
105	-3.44	8.31	0.0	121.9	0.0000	0.0000	119
106	-3.83	9.24	0.0	121.9	0.0000	0.0000	120
107	-5.74	13.86	0.0	121.9	0.0000	0.0000	121
108	-7.76	18.48	0.0	121.9	0.0000	0.0000	122
109	-9.57	23.10	0.0	121.9	0.0000	0.0000	123
110	-11.46	27.72	0.0	121.9	0.0000	0.0000	124

28

111	-15.31	36.96	0.0	121.9	0.0000	0.0000	125
112	-19.13	46.19	0.0	121.9	0.0000	0.0000	126
113	0.00	1.00	0.0	106.7	0.0000	0.0000	127
114	0.00	2.00	0.0	106.7	0.0000	0.0000	128
115	0.00	3.00	0.0	106.7	0.0000	0.0000	14
116	0.00	4.00	0.0	106.7	0.0000	0.0000	13
117	0.00	5.00	0.0	106.7	0.0000	0.0000	12
118	0.00	6.00	0.0	106.7	0.0000	0.0001	11
119	0.00	7.00	0.0	106.7	0.0000	0.0006	10
120	0.00	8.00	0.0	106.7	0.0000	0.0027	9
121	0.00	9.00	0.0	106.7	0.0000	0.0083	8
122	0.00	10.00	0.0	106.7	0.0000	0.0195	7
123	0.00	15.00	0.0	106.7	0.0000	0.1683	6
124	0.00	20.00	0.0	106.7	0.0000	0.4060	5
125	0.00	25.00	0.0	106.7	0.0000	0.6193	4
126	0.00	30.00	0.0	106.7	0.0000	0.7681	3
127	0.00	40.00	0.0	106.7	0.0000	0.8682	1
128	0.00	50.00	0.0	106.7	0.0000	0.8640	2

Susitna DEIS Comments
Nenana Site 200 MW Coal Fired Plant
Worst Case Impacts for SO2 Using Worst Case Coal

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 84/ 1 : HOUR 10

RECEPTOR NO.	NAME	EAST COORD	NORTH COORD	RECEPTOR HT ABV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1		-0.38	-0.92	0.0	106.7	0.0000	0.0000	1
2		-0.77	-1.85	0.0	106.7	0.0000	0.0000	2
3		-1.15	-2.77	0.0	106.7	0.0000	0.0000	3
4		-1.53	-3.70	0.0	106.7	0.0000	0.0000	4
5		-1.91	-4.62	0.0	106.7	0.0000	0.0000	5
6		-2.30	-5.54	0.0	106.7	0.0000	0.0000	6
7		-2.68	-6.47	0.0	106.7	0.0000	0.0000	7
8		-3.06	-7.39	0.0	106.7	0.0000	0.0000	8
9		-3.44	-8.31	0.0	106.7	0.0000	0.0000	9
10		-3.83	-9.24	0.0	106.7	0.0000	0.0000	10
11		-5.74	-13.86	0.0	106.7	0.0000	0.0000	11
12		-7.76	-18.48	0.0	106.7	0.0000	0.0000	12
13		-9.57	-23.10	0.0	106.7	0.0000	0.0000	13
14		-11.48	-27.72	0.0	106.7	0.0000	0.0000	14
15		-15.31	-36.96	0.0	106.7	0.0000	0.0000	15
16		-19.13	-46.19	0.0	106.7	0.0000	0.0000	16
17		-0.71	-0.71	0.0	106.7	0.0000	0.0000	17
18		-1.41	-1.41	0.0	106.7	0.0000	0.0000	18
19		-2.12	-2.12	0.0	106.7	0.0000	0.0000	19
20		-2.83	-2.83	0.0	106.7	0.0000	0.0000	20
21		-3.54	-3.54	0.0	106.7	0.0000	0.0000	21
22		-4.24	-4.24	0.0	106.7	0.0000	0.0000	22
23		-4.95	-4.95	0.0	106.7	0.0000	0.0000	23
24		-5.66	-5.66	0.0	106.7	0.0000	0.0000	24
25		-6.36	-6.36	0.0	106.7	0.0000	0.0000	25
26		-7.07	-7.07	0.0	106.7	0.0000	0.0000	26
27		-10.61	-10.61	0.0	106.7	0.0000	0.0000	27
28		-14.14	-14.14	0.0	106.7	0.0000	0.0000	28
29		-17.68	-17.68	0.0	106.7	0.0000	0.0000	29
30		-21.21	-21.21	0.0	106.7	0.0000	0.0000	30
31		-28.28	-28.28	0.0	106.7	0.0000	0.0000	31
32		-35.36	-35.36	0.0	106.7	0.0000	0.0000	32
33		-0.92	-0.38	0.0	106.7	0.0000	0.0000	33
34		-1.85	-0.77	0.0	106.7	0.0000	0.0000	34
35		-2.77	-1.15	0.0	106.7	0.0000	0.0000	35
36		-3.70	-1.53	0.0	106.7	0.0000	0.0000	36
37		-4.62	-1.91	0.0	106.7	0.0000	0.0000	37
38		-5.54	-2.30	0.0	106.7	0.0000	0.0000	38
39		-6.47	-2.68	0.0	106.7	0.0000	0.0000	39
40		-7.39	-3.06	0.0	106.7	0.0000	0.0000	40
41		-8.31	-3.44	0.0	106.7	0.0000	0.0000	41
42		-9.24	-3.33	0.0	106.7	0.0000	0.0000	42
43		-13.86	-5.74	0.0	106.7	0.0000	0.0000	43
44		-18.48	-7.65	0.0	106.7	0.0000	0.0000	44
45		-23.10	-9.57	0.0	106.7	0.0000	0.0000	45
46		-27.72	-11.48	0.0	106.7	0.0000	0.0000	46
47		-36.96	-15.31	0.0	106.7	0.0000	0.0000	47
48		-46.19	-19.13	0.0	106.7	0.0000	0.0000	48
49		-1.00	0.00	0.0	106.7	0.0000	0.0000	49

84

50	-2.00	0.00	0.0	106.7	0.0000	0.0000	50
51	-3.00	0.00	0.0	106.7	0.0000	0.0000	51
52	-4.00	0.00	0.0	106.7	0.0000	0.0000	52
53	-5.00	0.00	0.0	106.7	0.0000	0.0000	53
54	-6.00	0.00	0.0	106.7	0.0000	0.0000	54
55	-7.00	0.00	0.0	106.7	0.0000	0.0000	55
56	-8.00	0.00	0.0	106.7	0.0000	0.0000	56
57	-9.00	0.00	0.0	106.7	0.0000	0.0000	57
58	-10.00	0.00	0.0	106.7	0.0000	0.0000	58
59	-15.00	0.00	0.0	106.7	0.0000	0.0000	59
60	-20.00	0.00	0.0	106.7	0.0000	0.0000	60
61	-25.00	0.00	0.0	106.7	0.0000	0.0000	61
62	-30.00	0.00	0.0	106.7	0.0000	0.0000	62
63	-40.00	0.00	0.0	106.7	0.0000	0.0000	63
64	-50.00	0.00	0.0	106.7	0.0000	0.0000	64
65	-0.92	0.38	0.0	106.7	0.0000	0.0000	65
66	-1.85	0.77	0.0	106.7	0.0000	0.0000	66
67	-2.77	1.15	0.0	106.7	0.0000	0.0000	67
68	-3.70	1.53	0.0	106.7	0.0000	0.0000	68
69	-4.62	1.91	0.0	106.7	0.0000	0.0000	69
70	-5.54	2.30	0.0	106.7	0.0000	0.0000	70
71	-6.47	2.68	0.0	106.7	0.0000	0.0000	71
72	-7.39	3.06	0.0	106.7	0.0000	0.0000	72
73	-8.31	3.44	0.0	106.7	0.0000	0.0000	73
74	-9.24	3.83	0.0	106.7	0.0000	0.0000	74
75	-13.86	5.74	0.0	106.7	0.0000	0.0000	75
76	-18.48	7.65	0.0	106.7	0.0000	0.0000	76
77	-23.10	9.57	0.0	106.7	0.0000	0.0000	77
78	-27.72	11.48	0.0	106.7	0.0000	0.0000	78
79	-36.96	15.31	0.0	106.7	0.0000	0.0000	79
80	-46.19	19.13	0.0	106.7	0.0000	0.0000	80
81	-0.71	0.71	0.0	106.7	0.0000	0.0000	81
82	-1.41	1.41	0.0	106.7	0.0000	0.0000	82
83	-2.12	2.12	0.0	106.7	0.0000	0.0000	83
84	-2.83	2.83	0.0	106.7	0.0000	0.0000	84
85	-3.54	3.54	0.0	106.7	0.0000	0.0000	85
86	-4.24	4.24	0.0	109.7	0.0000	0.0000	86
87	-4.95	4.95	0.0	115.8	0.0000	0.0000	87
88	-5.66	5.66	0.0	121.9	0.0000	0.0000	88
89	-6.36	6.36	0.0	121.9	0.0000	0.0000	89
90	-7.07	7.07	0.0	121.9	0.0000	0.0000	90
91	-10.61	10.61	0.0	121.9	0.0000	0.0000	91
92	-14.14	14.14	0.0	121.9	0.0000	0.0000	92
93	-17.68	17.68	0.0	121.9	0.0000	0.0000	93
94	-21.21	21.21	0.0	121.9	0.0000	0.0000	94
95	-28.28	28.28	0.0	121.9	0.0000	0.0000	95
96	-35.36	35.36	0.0	121.9	0.0000	0.0000	96
97	-0.38	0.92	0.0	106.7	0.0000	0.0000	97
98	-0.77	1.85	0.0	106.7	0.0000	0.0000	98
99	-1.15	2.77	0.0	106.7	0.0000	0.0000	99
100	-1.53	3.70	0.0	106.7	0.0000	0.0000	100
101	-1.91	4.62	0.0	106.7	0.0000	0.0000	101
102	-2.30	5.54	0.0	109.7	0.0000	0.0000	102
103	-2.68	6.47	0.0	115.8	0.0000	0.0000	103
104	-3.06	7.39	0.0	118.9	0.0000	0.0000	104
105	-3.44	8.31	0.0	121.9	0.0000	0.0000	105
106	-3.83	9.24	0.0	121.9	0.0000	0.0000	106
107	-5.74	13.86	0.0	121.9	0.0000	0.0000	107
108	-7.76	18.48	0.0	121.9	0.0000	0.0000	108
109	-9.57	23.10	0.0	121.9	0.0000	0.0000	109
110	-11.48	27.72	0.0	121.9	0.0000	0.0000	110

111	-15.31	36.96	0.0	121.9	0.0000	0.0000	111
112	-19.13	46.19	0.0	121.9	0.0000	0.0000	112
113	0.00	1.00	0.0	106.7	0.0000	0.0000	113
114	0.00	2.00	0.0	106.7	0.0000	0.0000	114
115	0.00	3.00	0.0	106.7	0.0000	0.0000	115
116	0.00	4.00	0.0	106.7	0.0000	0.0000	116
117	0.00	5.00	0.0	106.7	0.0000	0.0000	117
118	0.00	6.00	0.0	106.7	0.0000	0.0000	118
119	0.00	7.00	0.0	106.7	0.0000	0.0000	119
120	0.00	8.00	0.0	106.7	0.0000	0.0000	120
121	0.00	9.00	0.0	106.7	0.0000	0.0000	121
122	0.00	10.00	0.0	106.7	0.0000	0.0000	122
123	0.00	15.00	0.0	106.7	0.0000	0.0000	123
124	0.00	20.00	0.0	106.7	0.0000	0.0000	124
125	0.00	25.00	0.0	106.7	0.0000	0.0000	125
126	0.00	30.00	0.0	106.7	0.0000	0.0000	126
127	0.00	40.00	0.0	106.7	0.0000	0.0000	127
128	0.00	50.00	0.0	106.7	0.0000	0.0000	128

Susitna DEIS Comments
Nenana Site 200 MW Coal Fired Plant
Worst Case Impacts for SO2 Using Worst Case Coal /

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 84/ 1 : HOUR 11

RECEPTOR NO.	NAME	EAST COORD	NORTH COORD	RECEPTOR HT ABV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1		-0.38	-0.92	0.0	106.7	0.0000	0.0000	1
2		-0.77	-1.85	0.0	106.7	0.0000	0.0000	2
3		-1.15	-2.77	0.0	106.7	0.0000	0.0000	3
4		-1.53	-3.70	0.0	106.7	0.0000	0.0000	4
5		-1.91	-4.62	0.0	106.7	0.0000	0.0000	5
6		-2.30	-5.54	0.0	106.7	0.0000	0.0000	6
7		-2.68	-6.47	0.0	106.7	0.0000	0.0000	7
8		-3.06	-7.39	0.0	106.7	0.0000	0.0000	8
9		-3.44	-8.31	0.0	106.7	0.0000	0.0000	9
10		-3.83	-9.24	0.0	106.7	0.0000	0.0000	10
11		-5.74	-13.86	0.0	106.7	0.0000	0.0000	11
12		-7.76	-18.48	0.0	106.7	0.0000	0.0000	12
13		-9.57	-23.10	0.0	106.7	0.0000	0.0000	13
14		-11.48	-27.72	0.0	106.7	0.0000	0.0000	14
15		-15.31	-36.96	0.0	106.7	0.0000	0.0000	15
16		-19.13	-46.19	0.0	106.7	0.0000	0.0000	16
17		-0.71	-0.71	0.0	106.7	0.0000	0.0000	17
18		-1.41	-1.41	0.0	106.7	0.0000	0.0000	18
19		-2.12	-2.12	0.0	106.7	0.0000	0.0000	19
20		-2.83	-2.83	0.0	106.7	0.0000	0.0000	20
21		-3.54	-3.54	0.0	106.7	0.0000	0.0000	21
22		-4.24	-4.24	0.0	106.7	0.0000	0.0000	22
23		-4.95	-4.95	0.0	106.7	0.0000	0.0000	23
24		-5.66	-5.66	0.0	106.7	0.0000	0.0000	24
25		-6.36	-6.36	0.0	106.7	0.0000	0.0000	25
26		-7.07	-7.07	0.0	106.7	0.0000	0.0000	26
27		-10.61	-10.61	0.0	106.7	0.0000	0.0000	27
28		-14.14	-14.14	0.0	106.7	0.0000	0.0000	28
29		-17.68	-17.68	0.0	106.7	0.0000	0.0000	29
30		-21.21	-21.21	0.0	106.7	0.0000	0.0000	30
31		-28.28	-28.28	0.0	106.7	0.0000	0.0000	31
32		-35.36	-35.36	0.0	106.7	0.0000	0.0000	32
33		-0.92	-0.38	0.0	106.7	0.0000	0.0000	33
34		-1.85	-0.77	0.0	106.7	0.0000	0.0000	34
35		-2.77	-1.15	0.0	106.7	0.0000	0.0000	35
36		-3.70	-1.53	0.0	106.7	0.0000	0.0000	36
37		-4.62	-1.91	0.0	106.7	0.0000	0.0000	37
38		-5.54	-2.30	0.0	106.7	0.0000	0.0000	38
39		-6.47	-2.68	0.0	106.7	0.0000	0.0000	39
40		-7.39	-3.06	0.0	106.7	0.0000	0.0000	40
41		-8.31	-3.44	0.0	106.7	0.0000	0.0000	41
42		-9.24	-3.83	0.0	106.7	0.0000	0.0000	42
43		-13.86	-5.74	0.0	106.7	0.0000	0.0000	43
44		-18.48	-7.65	0.0	106.7	0.0000	0.0000	44
45		-23.10	-9.57	0.0	106.7	0.0000	0.0000	45
46		-27.72	-11.48	0.0	106.7	0.0000	0.0000	46
47		-36.96	-15.31	0.0	106.7	0.0000	0.0000	47
48		-46.19	-19.13	0.0	106.7	0.0000	0.0000	48
49		-1.00	0.00	0.0	106.7	0.0000	0.0000	49

50	-2.00	0.00	0.0	106.7	0.0000	0.0000	50
51	-3.00	0.00	0.0	106.7	0.0000	0.0000	51
52	-4.00	0.00	0.0	106.7	0.0000	0.0000	52
53	-5.00	0.00	0.0	106.7	0.0000	0.0000	53
54	-6.00	0.00	0.0	106.7	0.0000	0.0000	54
55	-7.00	0.00	0.0	106.7	0.0000	0.0000	55
56	-8.00	0.00	0.0	106.7	0.0000	0.0000	56
57	-9.00	0.00	0.0	106.7	0.0000	0.0000	57
58	-10.00	0.00	0.0	106.7	0.0000	0.0000	58
59	-15.00	0.00	0.0	106.7	0.0000	0.0000	59
60	-20.00	0.00	0.0	106.7	0.0000	0.0000	60
61	-25.00	0.00	0.0	106.7	0.0000	0.0000	61
62	-30.00	0.00	0.0	106.7	0.0000	0.0000	62
63	-40.00	0.00	0.0	106.7	0.0000	0.0000	63
64	-50.00	0.00	0.0	106.7	0.0000	0.0000	64
65	-0.92	0.38	0.0	106.7	0.0000	0.0000	65
66	-1.85	0.77	0.0	106.7	0.0000	0.0000	66
67	-2.77	1.15	0.0	106.7	0.0000	0.0000	67
68	-3.70	1.53	0.0	106.7	0.0000	0.0000	68
69	-4.62	1.91	0.0	106.7	0.0000	0.0000	69
70	-5.54	2.30	0.0	106.7	0.0000	0.0000	70
71	-6.47	2.68	0.0	106.7	0.0000	0.0000	71
72	-7.39	3.06	0.0	106.7	0.0000	0.0000	72
73	-8.31	3.44	0.0	106.7	0.0000	0.0000	73
74	-9.24	3.83	0.0	106.7	0.0000	0.0000	74
75	-13.86	5.74	0.0	106.7	0.0000	0.0000	75
76	-18.48	7.65	0.0	106.7	0.0000	0.0000	76
77	-23.10	9.57	0.0	106.7	0.0000	0.0000	77
78	-27.72	11.48	0.0	106.7	0.0000	0.0000	78
79	-36.96	15.31	0.0	106.7	0.0000	0.0000	79
80	-46.19	19.13	0.0	106.7	0.0000	0.0000	80
81	-0.71	0.71	0.0	106.7	0.0000	0.0000	81
82	-1.41	1.41	0.0	106.7	0.0000	0.0000	82
83	-2.12	2.12	0.0	106.7	0.0000	0.0000	83
84	-2.83	2.83	0.0	106.7	0.0000	0.0000	84
85	-3.54	3.54	0.0	106.7	0.0000	0.0000	85
86	-4.24	4.24	0.0	109.7	0.0000	0.0000	86
87	-4.95	4.95	0.0	115.8	0.0000	0.0000	87
88	-5.66	5.66	0.0	121.9	0.0000	0.0000	88
89	-6.36	6.36	0.0	121.9	0.0000	0.0000	89
90	-7.07	7.07	0.0	121.9	0.0000	0.0000	90
91	-10.61	10.61	0.0	121.9	0.0000	0.0000	91
92	-14.14	14.14	0.0	121.9	0.0000	0.0000	92
93	-17.68	17.68	0.0	121.9	0.0000	0.0000	93
94	-21.21	21.21	0.0	121.9	0.0000	0.0000	94
95	-28.28	28.28	0.0	121.9	0.0000	0.0000	95
96	-35.36	35.36	0.0	121.9	0.0000	0.0000	96
97	-0.38	0.92	0.0	106.7	0.0000	0.0000	97
98	-0.77	1.85	0.0	106.7	0.0000	0.0000	98
99	-1.15	2.77	0.0	106.7	0.0000	0.0000	99
100	-1.53	3.70	0.0	106.7	0.0000	0.0000	100
101	-1.91	4.62	0.0	106.7	0.0000	0.0000	101
102	-2.30	5.54	0.0	109.7	0.0000	0.0000	102
103	-2.68	6.47	0.0	115.8	0.0000	0.0000	103
104	-3.06	7.39	0.0	118.9	0.0000	0.0000	104
105	-3.44	8.31	0.0	121.9	0.0000	0.0000	105
106	-3.83	9.24	0.0	121.9	0.0000	0.0000	106
107	-5.74	13.86	0.0	121.9	0.0000	0.0000	107
108	-7.76	18.48	0.0	121.9	0.0000	0.0000	108
109	-9.57	23.10	0.0	121.9	0.0000	0.0000	109
110	-11.48	27.72	0.0	121.9	0.0000	0.0000	110

88

111	-15.31	36.96	0.0	121.9	0.0000	0.0000	111
112	-19.13	46.19	0.0	121.9	0.0000	0.0000	112
113	0.00	1.00	0.0	106.7	0.0000	0.0000	113
114	0.00	2.00	0.0	106.7	0.0000	0.0000	114
115	0.00	3.00	0.0	106.7	0.0000	0.0000	115
116	0.00	4.00	0.0	106.7	0.0000	0.0000	116
117	0.00	5.00	0.0	106.7	0.0000	0.0000	117
118	0.00	6.00	0.0	106.7	0.0000	0.0000	118
119	0.00	7.00	0.0	106.7	0.0000	0.0000	119
120	0.00	8.00	0.0	106.7	0.0000	0.0000	120
121	0.00	9.00	0.0	106.7	0.0000	0.0000	121
122	0.00	10.00	0.0	106.7	0.0000	0.0000	122
123	0.00	15.00	0.0	106.7	0.0000	0.0000	123
124	0.00	20.00	0.0	106.7	0.0000	0.0000	124
125	0.00	25.00	0.0	106.7	0.0000	0.0000	125
126	0.00	30.00	0.0	106.7	0.0000	0.0000	126
127	0.00	40.00	0.0	106.7	0.0000	0.0000	127
128	0.00	50.00	0.0	106.7	0.0000	0.0000	128

Susitna DEIS Comments
Nenana Site 200 MW Coal Fired Plant
Worst Case Impacts for SO2 Using Worst Case Coal

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 84/ 1 : HOUR 12

RECEPTOR NO.	NAME	EAST COORD	NORTH COORD	RECEPTOR HT ABV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1		-0.38	-0.92	0.0	106.7	0.0000	0.0000	1
2		-0.77	-1.85	0.0	106.7	0.0000	0.0000	2
3		-1.15	-2.77	0.0	106.7	0.0000	0.0000	3
4		-1.53	-3.70	0.0	106.7	0.0000	0.0000	4
5		-1.91	-4.62	0.0	106.7	0.0000	0.0000	5
6		-2.30	-5.54	0.0	106.7	0.0000	0.0000	6
7		-2.68	-6.47	0.0	106.7	0.0000	0.0000	7
8		-3.06	-7.39	0.0	106.7	0.0000	0.0000	8
9		-3.44	-8.31	0.0	106.7	0.0000	0.0000	9
10		-3.83	-9.24	0.0	106.7	0.0000	0.0000	10
11		-5.74	-13.86	0.0	106.7	0.0000	0.0000	11
12		-7.76	-18.48	0.0	106.7	0.0000	0.0000	12
13		-9.57	-23.10	0.0	106.7	0.0000	0.0000	13
14		-11.48	-27.72	0.0	106.7	0.0000	0.0000	14
15		-15.31	-36.96	0.0	106.7	0.0000	0.0000	15
16		-19.13	-46.19	0.0	106.7	0.0000	0.0000	16
17		-0.71	-0.71	0.0	106.7	0.0000	0.0000	17
18		-1.41	-1.41	0.0	106.7	0.0000	0.0000	18
19		-2.12	-2.12	0.0	106.7	0.0000	0.0000	19
20		-2.83	-2.83	0.0	106.7	0.0000	0.0000	20
21		-3.54	-3.54	0.0	106.7	0.0000	0.0000	21
22		-4.24	-4.24	0.0	106.7	0.0000	0.0000	22
23		-4.95	-4.95	0.0	106.7	0.0000	0.0000	23
24		-5.66	-5.66	0.0	106.7	0.0000	0.0000	24
25		-6.36	-6.36	0.0	106.7	0.0000	0.0000	25
26		-7.07	-7.07	0.0	106.7	0.0000	0.0000	26
27		-10.61	-10.61	0.0	106.7	0.0000	0.0000	27
28		-14.14	-14.14	0.0	106.7	0.0000	0.0000	28
29		-17.68	-17.68	0.0	106.7	0.0000	0.0000	29
30		-21.21	-21.21	0.0	106.7	0.0000	0.0000	30
31		-28.28	-28.28	0.0	106.7	0.0000	0.0000	31
32		-35.36	-35.36	0.0	106.7	0.0000	0.0000	32
33		-0.92	-0.38	0.0	106.7	0.0000	0.0000	33
34		-1.85	-0.77	0.0	106.7	0.0000	0.0000	34
35		-2.77	-1.15	0.0	106.7	0.0000	0.0000	35
36		-3.70	-1.53	0.0	106.7	0.0000	0.0000	36
37		-4.62	-1.91	0.0	106.7	0.0000	0.0000	37
38		-5.54	-2.30	0.0	106.7	0.0000	0.0000	38
39		-6.47	-2.68	0.0	106.7	0.0000	0.0000	39
40		-7.39	-3.06	0.0	106.7	0.0000	0.0000	40
41		-8.31	-3.44	0.0	106.7	0.0000	0.0000	41
42		-9.24	-3.83	0.0	106.7	0.0000	0.0000	42
43		-13.85	-5.74	0.0	106.7	0.0000	0.0000	43
44		-18.48	-7.65	0.0	106.7	0.0000	0.0000	44
45		-23.10	-9.57	0.0	106.7	0.0000	0.0000	45
46		-27.72	-11.48	0.0	106.7	0.0000	0.0000	46
47		-36.96	-15.31	0.0	106.7	0.0000	0.0000	47
48		-46.19	-19.13	0.0	106.7	0.0000	0.0000	48
49		-1.00	0.00	0.0	106.7	0.0000	0.0000	49

50	-2.00	0.00	0.0	106.7	0.0000	0.0000	50
51	-3.00	0.00	0.0	106.7	0.0000	0.0000	51
52	-4.00	0.00	0.0	106.7	0.0000	0.0000	52
53	-5.00	0.00	0.0	106.7	0.0000	0.0000	53
54	-6.00	0.00	0.0	106.7	0.0000	0.0000	54
55	-7.00	0.00	0.0	106.7	0.0000	0.0000	55
56	-8.00	0.00	0.0	106.7	0.0000	0.0000	56
57	-9.00	0.00	0.0	106.7	0.0000	0.0000	57
58	-10.00	0.00	0.0	106.7	0.0000	0.0000	58
59	-15.00	0.00	0.0	106.7	0.0000	0.0000	59
60	-20.00	0.00	0.0	106.7	0.0000	0.0000	60
61	-25.00	0.00	0.0	106.7	0.0000	0.0000	61
62	-30.00	0.00	0.0	106.7	0.0000	0.0000	62
63	-40.00	0.00	0.0	106.7	0.0000	0.0000	63
64	-50.00	0.00	0.0	106.7	0.0000	0.0000	64
65	-0.92	0.38	0.0	106.7	0.0000	0.0000	65
66	-1.85	0.77	0.0	106.7	0.0000	0.0000	66
67	-2.77	1.15	0.0	106.7	0.0000	0.0000	67
68	-3.70	1.53	0.0	106.7	0.0000	0.0000	68
69	-4.62	1.91	0.0	106.7	0.0000	0.0000	69
70	-5.54	2.30	0.0	106.7	0.0000	0.0000	70
71	-6.47	2.68	0.0	106.7	0.0000	0.0000	71
72	-7.39	3.06	0.0	106.7	0.0000	0.0000	72
73	-8.31	3.44	0.0	106.7	0.0000	0.0000	73
74	-9.24	3.83	0.0	106.7	0.0000	0.0000	74
75	-13.86	5.74	0.0	106.7	0.0000	0.0000	75
76	-18.48	7.65	0.0	106.7	0.0000	0.0000	76
77	-23.10	9.57	0.0	106.7	0.0000	0.0000	77
78	-27.72	11.48	0.0	106.7	0.0000	0.0000	78
79	-36.96	15.31	0.0	106.7	0.0000	0.0000	79
80	-46.19	19.13	0.0	106.7	0.0000	0.0000	80
81	-0.71	0.71	0.0	106.7	0.0000	0.0000	81
82	-1.41	1.41	0.0	106.7	0.0000	0.0000	82
83	-2.12	2.12	0.0	106.7	0.0000	0.0000	83
84	-2.83	2.83	0.0	106.7	0.0000	0.0000	84
85	-3.54	3.54	0.0	106.7	0.0000	0.0000	85
86	-4.24	4.24	0.0	109.7	0.0000	0.0000	86
87	-4.95	4.95	0.0	115.8	0.0000	0.0000	87
88	-5.66	5.66	0.0	121.9	0.0000	0.0000	88
89	-6.36	6.36	0.0	121.9	0.0000	0.0000	89
90	-7.07	7.07	0.0	121.9	0.0000	0.0000	90
91	-10.61	10.61	0.0	121.9	0.0000	0.0000	91
92	-14.14	14.14	0.0	121.9	0.0000	0.0000	92
93	-17.68	17.68	0.0	121.9	0.0000	0.0000	93
94	-21.21	21.21	0.0	121.9	0.0000	0.0000	94
95	-28.28	28.28	0.0	121.9	0.0000	0.0000	95
96	-35.36	35.36	0.0	121.9	0.0000	0.0000	96
97	-0.38	0.92	0.0	106.7	0.0000	0.0000	97
98	-0.77	1.85	0.0	106.7	0.0000	0.0000	98
99	-1.15	2.77	0.0	106.7	0.0000	0.0000	99
100	-1.53	3.70	0.0	106.7	0.0000	0.0000	100
101	-1.91	4.62	0.0	106.7	0.0000	0.0000	101
102	-2.30	5.54	0.0	109.7	0.0000	0.0000	102
103	-2.68	6.47	0.0	115.8	0.0000	0.0000	103
104	-3.06	7.39	0.0	118.9	0.0000	0.0000	104
105	-3.44	8.31	0.0	121.9	0.0000	0.0000	105
106	-3.83	9.24	0.0	121.9	0.0000	0.0000	106
107	-5.74	13.86	0.0	121.9	0.0000	0.0000	107
108	-7.76	18.48	0.0	121.9	0.0000	0.0000	108
109	-9.57	23.10	0.0	121.9	0.0000	0.0000	109
110	-11.48	27.72	0.0	121.9	0.0000	0.0000	110

111	-15.31	36.96	0.0	121.9	0.0000	0.0000	111
112	-19.13	46.19	0.0	121.9	0.0000	0.0000	112
113	0.00	1.00	0.0	106.7	0.0000	0.0000	113
114	0.00	2.00	0.0	106.7	0.0000	0.0000	114
115	0.00	3.00	0.0	106.7	0.0000	0.0000	115
116	0.00	4.00	0.0	106.7	0.0000	0.0000	116
117	0.00	5.00	0.0	106.7	0.0000	0.0000	117
118	0.00	6.00	0.0	106.7	0.0000	0.0000	118
119	0.00	7.00	0.0	106.7	0.0000	0.0000	119
120	0.00	8.00	0.0	106.7	0.0000	0.0000	120
121	0.00	9.00	0.0	106.7	0.0000	0.0000	121
122	0.00	10.00	0.0	106.7	0.0000	0.0000	122
123	0.00	15.00	0.0	106.7	0.0000	0.0000	123
124	0.00	20.00	0.0	106.7	0.0000	0.0000	124
125	0.00	25.00	0.0	106.7	0.0000	0.0000	125
126	0.00	30.00	0.0	106.7	0.0000	0.0000	126
127	0.00	40.00	0.0	106.7	0.0000	0.0000	127
128	0.00	50.00	0.0	106.7	0.0000	0.0000	128

Susitna DEIS Comments
Nenana Site 200 MW Coal Fired Plant
Worst Case Impacts for SO2 Using Worst Case Coal

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 847 1 : HOUR 13

RECEPTOR NO.	NAME	EAST COORD	NORTH COORD	RECEPTOR HT ABV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1		-0.38	-0.92	0.0	106.7	0.0000	0.0000	1
2		-0.77	-1.85	0.0	106.7	0.0000	0.0000	2
3		-1.15	-2.77	0.0	106.7	0.0000	0.0000	3
4		-1.53	-3.70	0.0	106.7	0.0000	0.0000	4
5		-1.91	-4.62	0.0	106.7	0.0000	0.0000	5
6		-2.30	-5.54	0.0	106.7	0.0000	0.0000	6
7		-2.68	-6.47	0.0	106.7	0.0000	0.0000	7
8		-3.06	-7.39	0.0	106.7	0.0000	0.0000	8
9		-3.44	-8.31	0.0	106.7	0.0000	0.0000	9
10		-3.83	-9.24	0.0	106.7	0.0000	0.0000	10
11		-5.74	-13.86	0.0	106.7	0.0000	0.0000	11
12		-7.76	-18.48	0.0	106.7	0.0000	0.0000	12
13		-9.57	-23.10	0.0	106.7	0.0000	0.0000	13
14		-11.48	-27.72	0.0	106.7	0.0000	0.0000	14
15		-15.31	-36.96	0.0	106.7	0.0000	0.0000	15
16		-19.13	-46.19	0.0	106.7	0.0000	0.0000	16
17		-0.71	-0.71	0.0	106.7	0.0000	0.0000	17
18		-1.41	-1.41	0.0	106.7	0.0000	0.0000	18
19		-2.12	-2.12	0.0	106.7	0.0000	0.0000	19
20		-2.83	-2.83	0.0	106.7	0.0000	0.0000	20
21		-3.54	-3.54	0.0	106.7	0.0000	0.0000	21
22		-4.24	-4.24	0.0	106.7	0.0000	0.0000	22
23		-4.95	-4.95	0.0	106.7	0.0000	0.0000	23
24		-5.66	-5.66	0.0	106.7	0.0000	0.0000	24
25		-6.36	-6.36	0.0	106.7	0.0000	0.0000	25
26		-7.07	-7.07	0.0	106.7	0.0000	0.0000	26
27		-10.61	-10.61	0.0	106.7	0.0000	0.0000	27
28		-14.14	-14.14	0.0	106.7	0.0000	0.0000	28
29		-17.68	-17.68	0.0	106.7	0.0000	0.0000	29
30		-21.21	-21.21	0.0	106.7	0.0000	0.0000	30
31		-28.28	-28.28	0.0	106.7	0.0000	0.0000	31
32		-35.36	-35.36	0.0	106.7	0.0000	0.0000	32
33		-0.92	-0.38	0.0	106.7	0.0000	0.0000	33
34		-1.85	-0.77	0.0	106.7	0.0000	0.0000	34
35		-2.77	-1.15	0.0	106.7	0.0000	0.0000	35
36		-3.70	-1.53	0.0	106.7	0.0000	0.0000	36
37		-4.62	-1.91	0.0	106.7	0.0000	0.0000	37
38		-5.54	-2.30	0.0	106.7	0.0000	0.0000	38
39		-6.47	-2.68	0.0	106.7	0.0000	0.0000	39
40		-7.39	-3.06	0.0	106.7	0.0000	0.0000	40
41		-8.31	-3.44	0.0	106.7	0.0000	0.0000	41
42		-9.24	-3.83	0.0	106.7	0.0000	0.0000	42
43		-13.86	-5.74	0.0	106.7	0.0000	0.0000	43
44		-18.48	-7.65	0.0	106.7	0.0000	0.0000	44
45		-23.10	-9.57	0.0	106.7	0.0000	0.0000	45
46		-27.72	-11.48	0.0	106.7	0.0000	0.0000	46
47		-36.96	-15.31	0.0	106.7	0.0000	0.0000	47
48		-46.19	-19.13	0.0	106.7	0.0000	0.0000	48
49		-1.00	0.00	0.0	106.7	0.0000	0.0000	49

50	-2.00	0.00	0.0	106.7	0.0000	0.0000	50
51	-3.00	0.00	0.0	106.7	0.0000	0.0000	51
52	-4.00	0.00	0.0	106.7	0.0000	0.0000	52
53	-5.00	0.00	0.0	106.7	0.0000	0.0000	53
54	-6.00	0.00	0.0	106.7	0.0000	0.0000	54
55	-7.00	0.00	0.0	106.7	0.0000	0.0000	55
56	-8.00	0.00	0.0	106.7	0.0000	0.0000	56
57	-9.00	0.00	0.0	106.7	0.0000	0.0000	57
58	-10.00	0.00	0.0	106.7	0.0000	0.0000	58
59	-15.00	0.00	0.0	106.7	0.0000	0.0000	59
60	-20.00	0.00	0.0	106.7	0.0000	0.0000	60
61	-25.00	0.00	0.0	106.7	0.0000	0.0000	61
62	-30.00	0.00	0.0	106.7	0.0000	0.0000	62
63	-40.00	0.00	0.0	106.7	0.0000	0.0000	63
64	-50.00	0.00	0.0	106.7	0.0000	0.0000	64
65	-0.92	0.38	0.0	106.7	0.0000	0.0000	65
66	-1.85	0.77	0.0	106.7	0.0000	0.0000	66
67	-2.77	1.15	0.0	106.7	0.0000	0.0000	67
68	-3.70	1.53	0.0	106.7	0.0000	0.0000	68
69	-4.62	1.91	0.0	106.7	0.0000	0.0000	69
70	-5.54	2.30	0.0	106.7	0.0000	0.0000	70
71	-6.47	2.68	0.0	106.7	0.0000	0.0000	71
72	-7.39	3.06	0.0	106.7	0.0000	0.0000	72
73	-8.31	3.44	0.0	106.7	0.0000	0.0000	73
74	-9.24	3.83	0.0	106.7	0.0000	0.0000	74
75	-13.86	5.74	0.0	106.7	0.0000	0.0000	75
76	-18.48	7.65	0.0	106.7	0.0000	0.0000	76
77	-23.10	9.57	0.0	106.7	0.0000	0.0000	77
78	-27.72	11.48	0.0	106.7	0.0000	0.0000	78
79	-36.96	15.31	0.0	106.7	0.0000	0.0000	79
80	-46.19	19.13	0.0	106.7	0.0000	0.0000	80
81	-0.71	0.71	0.0	106.7	0.0000	0.0000	81
82	-1.41	1.41	0.0	106.7	0.0000	0.0000	82
83	-2.12	2.12	0.0	106.7	0.0000	0.0000	83
84	-2.83	2.83	0.0	106.7	0.0000	0.0000	84
85	-3.54	3.54	0.0	106.7	0.0000	0.0000	85
86	-4.24	4.24	0.0	109.7	0.0000	0.0000	86
87	-4.95	4.95	0.0	115.8	0.0000	0.0000	87
88	-5.66	5.66	0.0	121.9	0.0000	0.0000	88
89	-6.36	6.36	0.0	121.9	0.0000	0.0000	89
90	-7.07	7.07	0.0	121.9	0.0000	0.0000	90
91	-10.61	10.61	0.0	121.9	0.0000	0.0000	91
92	-14.14	14.14	0.0	121.9	0.0000	0.0000	92
93	-17.68	17.68	0.0	121.9	0.0000	0.0000	93
94	-21.21	21.21	0.0	121.9	0.0000	0.0000	94
95	-28.28	28.28	0.0	121.9	0.0000	0.0000	95
96	-35.36	35.36	0.0	121.9	0.0000	0.0000	96
97	-0.38	0.92	0.0	106.7	0.0000	0.0000	97
98	-0.77	1.85	0.0	106.7	0.0000	0.0000	98
99	-1.15	2.77	0.0	106.7	0.0000	0.0000	99
100	-1.53	3.70	0.0	106.7	0.0000	0.0000	100
101	-1.91	4.62	0.0	106.7	0.0000	0.0000	101
102	-2.30	5.54	0.0	109.7	0.0000	0.0000	102
103	-2.68	6.47	0.0	115.8	0.0000	0.0000	103
104	-3.06	7.39	0.0	118.9	0.0000	0.0000	104
105	-3.44	8.31	0.0	121.9	0.0000	0.0000	105
106	-3.83	9.24	0.0	121.9	0.0000	0.0000	106
107	-5.74	13.86	0.0	121.9	0.0000	0.0000	107
108	-7.76	18.48	0.0	121.9	0.0000	0.0000	108
109	-9.57	23.10	0.0	121.9	0.0000	0.0000	109
110	-11.48	27.72	0.0	121.9	0.0000	0.0000	110

111	-15.31	36.96	0.0	121.9	0.0000	0.0000	111
112	-19.13	46.19	0.0	121.9	0.0000	0.0000	112
113	0.00	1.00	0.0	106.7	0.0000	0.0000	113
114	0.00	2.00	0.0	106.7	0.0000	0.0000	114
115	0.00	3.00	0.0	106.7	0.0000	0.0000	115
116	0.00	4.00	0.0	106.7	0.0000	0.0000	116
117	0.00	5.00	0.0	106.7	0.0000	0.0000	117
118	0.00	6.00	0.0	106.7	0.0000	0.0000	118
119	0.00	7.00	0.0	106.7	0.0000	0.0000	119
120	0.00	8.00	0.0	106.7	0.0000	0.0000	120
121	0.00	9.00	0.0	106.7	0.0000	0.0000	121
122	0.00	10.00	0.0	106.7	0.0000	0.0000	122
123	0.00	15.00	0.0	106.7	0.0000	0.0000	123
124	0.00	20.00	0.0	106.7	0.0000	0.0000	124
125	0.00	25.00	0.0	106.7	0.0000	0.0000	125
126	0.00	30.00	0.0	106.7	0.0000	0.0000	126
127	0.00	40.00	0.0	106.7	0.0000	0.0000	127
128	0.00	50.00	0.0	106.7	0.0000	0.0000	128

Susitna DEIS Comments
Nenana Site 200 MW Coal Fired Plant
Worst Case Impacts for SO2 Using Worst Case Coal

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 84/ 1 : HOUR 14

RECEPTOR NO.	NAME	EAST COORD	NORTH COORD	RECEPTOR HT ABV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1		-0.38	-0.92	0.0	106.7	0.0000	0.0000	1
2		-0.77	-1.85	0.0	106.7	0.0000	0.0000	2
3		-1.15	-2.77	0.0	106.7	0.0000	0.0000	3
4		-1.53	-3.70	0.0	106.7	0.0000	0.0000	4
5		-1.91	-4.62	0.0	106.7	0.0000	0.0000	5
6		-2.30	-5.54	0.0	106.7	0.0000	0.0000	6
7		-2.68	-6.47	0.0	106.7	0.0000	0.0000	7
8		-3.06	-7.39	0.0	106.7	0.0000	0.0000	8
9		-3.44	-8.31	0.0	106.7	0.0000	0.0000	9
10		-3.83	-9.24	0.0	106.7	0.0000	0.0000	10
11		-5.74	-13.86	0.0	106.7	0.0000	0.0000	11
12		-7.76	-18.48	0.0	106.7	0.0000	0.0000	12
13		-9.57	-23.10	0.0	106.7	0.0000	0.0000	13
14		-11.48	-27.72	0.0	106.7	0.0000	0.0000	14
15		-15.31	-36.96	0.0	106.7	0.0000	0.0000	15
16		-19.13	-46.19	0.0	106.7	0.0000	0.0000	16
17		-0.71	-0.71	0.0	106.7	0.0000	0.0000	17
18		-1.41	-1.41	0.0	106.7	0.0000	0.0000	18
19		-2.12	-2.12	0.0	106.7	0.0000	0.0000	19
20		-2.83	-2.83	0.0	106.7	0.0000	0.0000	20
21		-3.54	-3.54	0.0	106.7	0.0000	0.0000	21
22		-4.24	-4.24	0.0	106.7	0.0000	0.0000	22
23		-4.95	-4.95	0.0	106.7	0.0000	0.0000	23
24		-5.66	-5.66	0.0	106.7	0.0000	0.0000	24
25		-6.36	-6.36	0.0	106.7	0.0000	0.0000	25
26		-7.07	-7.07	0.0	106.7	0.0000	0.0000	26
27		-10.61	-10.61	0.0	106.7	0.0000	0.0000	27
28		-14.14	-14.14	0.0	106.7	0.0000	0.0000	28
29		-17.68	-17.68	0.0	106.7	0.0000	0.0000	29
30		-21.21	-21.21	0.0	106.7	0.0000	0.0000	30
31		-28.28	-28.28	0.0	106.7	0.0000	0.0000	31
32		-35.36	-35.36	0.0	106.7	0.0000	0.0000	32
33		-0.92	-0.38	0.0	106.7	0.0000	0.0000	33
34		-1.85	-0.77	0.0	106.7	0.0000	0.0000	34
35		-2.77	-1.15	0.0	106.7	0.0000	0.0000	35
36		-3.70	-1.53	0.0	106.7	0.0000	0.0000	36
37		-4.62	-1.91	0.0	106.7	0.0000	0.0000	37
38		-5.54	-2.30	0.0	106.7	0.0000	0.0000	38
39		-6.47	-2.68	0.0	106.7	0.0000	0.0000	39
40		-7.39	-3.06	0.0	106.7	0.0000	0.0000	40
41		-8.31	-3.44	0.0	106.7	0.0000	0.0000	41
42		-9.24	-3.83	0.0	106.7	0.0000	0.0000	42
43		-13.86	-5.74	0.0	106.7	0.0000	0.0000	43
44		-18.48	-7.65	0.0	106.7	0.0000	0.0000	44
45		-23.10	-9.57	0.0	106.7	0.0000	0.0000	45
46		-27.72	-11.48	0.0	106.7	0.0000	0.0000	46
47		-36.96	-15.31	0.0	106.7	0.0000	0.0000	47
48		-46.19	-19.13	0.0	106.7	0.0000	0.0000	48
49		-1.00	0.00	0.0	106.7	0.0000	0.0000	49

96

50	-2.00	0.00	0.0	106.7	0.0000	0.0000	50
51	-3.00	0.00	0.0	106.7	0.0000	0.0000	51
52	-4.00	0.00	0.0	106.7	0.0000	0.0000	52
53	-5.00	0.00	0.0	106.7	0.0000	0.0000	53
54	-6.00	0.00	0.0	106.7	0.0000	0.0000	54
55	-7.00	0.00	0.0	106.7	0.0000	0.0000	55
56	-8.00	0.00	0.0	106.7	0.0000	0.0000	56
57	-9.00	0.00	0.0	106.7	0.0000	0.0000	57
58	-10.00	0.00	0.0	106.7	0.0000	0.0000	58
59	-15.00	0.00	0.0	106.7	0.0000	0.0000	59
60	-20.00	0.00	0.0	106.7	0.0000	0.0000	60
61	-25.00	0.00	0.0	106.7	0.0000	0.0000	61
62	-30.00	0.00	0.0	106.7	0.0000	0.0000	62
63	-40.00	0.00	0.0	106.7	0.0000	0.0000	63
64	-50.00	0.00	0.0	106.7	0.0000	0.0000	64
65	-0.92	0.38	0.0	106.7	0.0000	0.0000	65
66	-1.85	0.77	0.0	106.7	0.0000	0.0000	66
67	-2.77	1.15	0.0	106.7	0.0000	0.0000	67
68	-3.70	1.53	0.0	106.7	0.0000	0.0000	68
69	-4.62	1.91	0.0	106.7	0.0000	0.0000	69
70	-5.54	2.30	0.0	106.7	0.0000	0.0000	70
71	-6.47	2.68	0.0	106.7	0.0000	0.0000	71
72	-7.39	3.06	0.0	106.7	0.0000	0.0000	72
73	-8.31	3.44	0.0	106.7	0.0000	0.0000	73
74	-9.24	3.83	0.0	106.7	0.0000	0.0000	74
75	-13.86	5.74	0.0	106.7	0.0000	0.0000	75
76	-18.48	7.65	0.0	106.7	0.0000	0.0000	76
77	-23.10	9.57	0.0	106.7	0.0000	0.0000	77
78	-27.72	11.48	0.0	106.7	0.0000	0.0000	78
79	-36.96	15.31	0.0	106.7	0.0000	0.0000	79
80	-46.19	19.13	0.0	106.7	0.0000	0.0000	80
81	-0.71	0.71	0.0	106.7	0.0000	0.0000	81
82	-1.41	1.41	0.0	106.7	0.0000	0.0000	82
83	-2.12	2.12	0.0	106.7	0.0000	0.0000	83
84	-2.83	2.83	0.0	106.7	0.0000	0.0000	84
85	-3.54	3.54	0.0	106.7	0.0000	0.0000	85
86	-4.24	4.24	0.0	109.7	0.0000	0.0000	86
87	-4.95	4.95	0.0	115.8	0.0000	0.0000	87
88	-5.66	5.66	0.0	121.9	0.0000	0.0000	88
89	-6.36	6.36	0.0	121.9	0.0000	0.0000	89
90	-7.07	7.07	0.0	121.9	0.0000	0.0000	90
91	-10.61	10.61	0.0	121.9	0.0000	0.0000	91
92	-14.14	14.14	0.0	121.9	0.0000	0.0000	92
93	-17.68	17.68	0.0	121.9	0.0000	0.0000	93
94	-21.21	21.21	0.0	121.9	0.0000	0.0000	94
95	-28.28	28.28	0.0	121.9	0.0000	0.0000	95
96	-35.36	35.36	0.0	121.9	0.0000	0.0000	96
97	-0.38	0.92	0.0	106.7	0.0000	0.0000	97
98	-0.77	1.85	0.0	106.7	0.0000	0.0000	98
99	-1.15	2.77	0.0	106.7	0.0000	0.0000	99
100	-1.53	3.70	0.0	106.7	0.0000	0.0000	100
101	-1.91	4.62	0.0	106.7	0.0000	0.0000	101
102	-2.30	5.54	0.0	109.7	0.0000	0.0000	102
103	-2.68	6.47	0.0	115.8	0.0000	0.0000	103
104	-3.06	7.39	0.0	118.9	0.0000	0.0000	104
105	-3.44	8.31	0.0	121.9	0.0000	0.0000	105
106	-3.83	9.24	0.0	121.9	0.0000	0.0000	106
107	-5.74	13.86	0.0	121.9	0.0000	0.0000	107
108	-7.76	18.48	0.0	121.9	0.0000	0.0000	108
109	-9.57	23.10	0.0	121.9	0.0000	0.0000	109
110	-11.48	27.72	0.0	121.9	0.0000	0.0000	110

111	-15.31	36.96	0.0	121.9	0.0000	0.0000	111
112	-19.13	46.19	0.0	121.9	0.0000	0.0000	112
113	0.00	1.00	0.0	106.7	0.0000	0.0000	113
114	0.00	2.00	0.0	106.7	0.0000	0.0000	114
115	0.00	3.00	0.0	106.7	0.0000	0.0000	115
116	0.00	4.00	0.0	106.7	0.0000	0.0000	116
117	0.00	5.00	0.0	106.7	0.0000	0.0000	117
118	0.00	6.00	0.0	106.7	0.0000	0.0000	118
119	0.00	7.00	0.0	106.7	0.0000	0.0000	119
120	0.00	8.00	0.0	106.7	0.0000	0.0000	120
121	0.00	9.00	0.0	106.7	0.0000	0.0000	121
122	0.00	10.00	0.0	106.7	0.0000	0.0000	122
123	0.00	15.00	0.0	106.7	0.0000	0.0000	123
124	0.00	20.00	0.0	106.7	0.0000	0.0000	124
125	0.00	25.00	0.0	106.7	0.0000	0.0000	125
126	0.00	30.00	0.0	106.7	0.0000	0.0000	126
127	0.00	40.00	0.0	106.7	0.0000	0.0000	127
128	0.00	50.00	0.0	106.7	0.0000	0.0000	128

Susitna DEIS Comments
Nenana Site 200 MW Coal Fired Plant
Worst Case Impacts for SO2 Using Worst Case Coal

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 84/ 1 : HOUR 15

RECEPTOR NO.	NAME	EAST COORD	NORTH COORD	RECEPTOR HT ABV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1		-0.38	-0.92	0.0	106.7	0.0000	0.0000	1
2		-0.77	-1.85	0.0	106.7	0.0000	0.0000	2
3		-1.15	-2.77	0.0	106.7	0.0000	0.0000	3
4		-1.53	-3.70	0.0	106.7	0.0000	0.0000	4
5		-1.91	-4.62	0.0	106.7	0.0000	0.0000	5
6		-2.30	-5.54	0.0	106.7	0.0000	0.0000	6
7		-2.68	-6.47	0.0	106.7	0.0000	0.0000	7
8		-3.06	-7.39	0.0	106.7	0.0000	0.0000	8
9		-3.44	-8.31	0.0	106.7	0.0000	0.0000	9
10		-3.83	-9.24	0.0	106.7	0.0000	0.0000	10
11		-5.74	-13.86	0.0	106.7	0.0000	0.0000	11
12		-7.76	-18.48	0.0	106.7	0.0000	0.0000	12
13		-9.57	-23.10	0.0	106.7	0.0000	0.0000	13
14		-11.48	-27.72	0.0	106.7	0.0000	0.0000	14
15		-15.31	-36.96	0.0	106.7	0.0000	0.0000	15
16		-19.13	-46.19	0.0	106.7	0.0000	0.0000	16
17		-0.71	-0.71	0.0	106.7	0.0000	0.0000	17
18		-1.41	-1.41	0.0	106.7	0.0000	0.0000	18
19		-2.12	-2.12	0.0	106.7	0.0000	0.0000	19
20		-2.83	-2.83	0.0	106.7	0.0000	0.0000	20
21		-3.54	-3.54	0.0	106.7	0.0000	0.0000	21
22		-4.24	-4.24	0.0	106.7	0.0000	0.0000	22
23		-4.95	-4.95	0.0	106.7	0.0000	0.0000	23
24		-5.66	-5.66	0.0	106.7	0.0000	0.0000	24
25		-6.36	-6.36	0.0	106.7	0.0000	0.0000	25
26		-7.07	-7.07	0.0	106.7	0.0000	0.0000	26
27		-10.61	-10.61	0.0	106.7	0.0000	0.0000	27
28		-14.14	-14.14	0.0	106.7	0.0000	0.0000	28
29		-17.68	-17.68	0.0	106.7	0.0000	0.0000	29
30		-21.21	-21.21	0.0	106.7	0.0000	0.0000	30
31		-28.28	-28.28	0.0	106.7	0.0000	0.0000	31
32		-35.36	-35.36	0.0	106.7	0.0000	0.0000	32
33		-0.92	-0.38	0.0	106.7	0.0000	0.0000	33
34		-1.85	-0.77	0.0	106.7	0.0000	0.0000	34
35		-2.77	-1.15	0.0	106.7	0.0000	0.0000	35
36		-3.70	-1.53	0.0	106.7	0.0000	0.0000	36
37		-4.62	-1.91	0.0	106.7	0.0000	0.0000	37
38		-5.54	-2.30	0.0	106.7	0.0000	0.0000	38
39		-6.47	-2.68	0.0	106.7	0.0000	0.0000	39
40		-7.39	-3.06	0.0	106.7	0.0000	0.0000	40
41		-8.31	-3.44	0.0	106.7	0.0000	0.0000	41
42		-9.24	-3.83	0.0	106.7	0.0000	0.0000	42
43		-13.86	-5.74	0.0	106.7	0.0000	0.0000	43
44		-18.48	-7.65	0.0	106.7	0.0000	0.0000	44
45		-23.10	-9.57	0.0	106.7	0.0000	0.0000	45
46		-27.72	-11.48	0.0	106.7	0.0000	0.0000	46
47		-36.96	-15.31	0.0	106.7	0.0000	0.0000	47
48		-46.19	-19.13	0.0	106.7	0.0000	0.0000	48
49		-1.00	0.00	0.0	106.7	0.0000	0.0000	49

50	-2.00	0.00	0.0	106.7	0.0000	0.0000	50
51	-3.00	0.00	0.0	106.7	0.0000	0.0000	51
52	-4.00	0.00	0.0	106.7	0.0000	0.0000	52
53	-5.00	0.00	0.0	106.7	0.0000	0.0000	53
54	-6.00	0.00	0.0	106.7	0.0000	0.0000	54
55	-7.00	0.00	0.0	106.7	0.0000	0.0000	55
56	-8.00	0.00	0.0	106.7	0.0000	0.0000	56
57	-9.00	0.00	0.0	106.7	0.0000	0.0000	57
58	-10.00	0.00	0.0	106.7	0.0000	0.0000	58
59	-15.00	0.00	0.0	106.7	0.0000	0.0000	59
60	-20.00	0.00	0.0	106.7	0.0000	0.0000	60
61	-25.00	0.00	0.0	106.7	0.0000	0.0000	61
62	-30.00	0.00	0.0	106.7	0.0000	0.0000	62
63	-40.00	0.00	0.0	106.7	0.0000	0.0000	63
64	-50.00	0.00	0.0	106.7	0.0000	0.0000	64
65	-0.92	0.38	0.0	106.7	0.0000	0.0000	65
66	-1.85	0.77	0.0	106.7	0.0000	0.0000	66
67	-2.77	1.15	0.0	106.7	0.0000	0.0000	67
68	-3.70	1.53	0.0	106.7	0.0000	0.0000	68
69	-4.62	1.91	0.0	106.7	0.0000	0.0000	69
70	-5.54	2.30	0.0	106.7	0.0000	0.0000	70
71	-6.47	2.68	0.0	106.7	0.0000	0.0000	71
72	-7.39	3.06	0.0	106.7	0.0000	0.0000	72
73	-8.31	3.44	0.0	106.7	0.0000	0.0000	73
74	-9.24	3.83	0.0	106.7	0.0000	0.0000	74
75	-13.86	5.74	0.0	106.7	0.0000	0.0000	75
76	-18.48	7.65	0.0	106.7	0.0000	0.0000	76
77	-23.10	9.57	0.0	106.7	0.0000	0.0000	77
78	-27.72	11.48	0.0	106.7	0.0000	0.0000	78
79	-36.96	15.31	0.0	106.7	0.0000	0.0000	79
80	-46.19	19.13	0.0	106.7	0.0000	0.0000	80
81	-0.71	0.71	0.0	106.7	0.0000	0.0000	81
82	-1.41	1.41	0.0	106.7	0.0000	0.0000	82
83	-2.12	2.12	0.0	106.7	0.0000	0.0000	83
84	-2.83	2.83	0.0	106.7	0.0000	0.0000	84
85	-3.54	3.54	0.0	106.7	0.0000	0.0000	95
86	-4.24	4.24	0.0	109.7	0.0000	0.0000	86
87	-4.95	4.95	0.0	115.8	0.0000	0.0000	87
88	-5.66	5.66	0.0	121.9	0.0000	0.0000	88
89	-6.36	6.36	0.0	121.9	0.0000	0.0000	89
90	-7.07	7.07	0.0	121.9	0.0000	0.0000	90
91	-10.61	10.61	0.0	121.9	0.0000	0.0000	91
92	-14.14	14.14	0.0	121.9	0.0000	0.0000	92
93	-17.68	17.68	0.0	121.9	0.0000	0.0000	93
94	-21.21	21.21	0.0	121.9	0.0000	0.0000	94
95	-28.28	28.28	0.0	121.9	0.0000	0.0000	95
96	-35.36	35.36	0.0	121.9	0.0000	0.0000	96
97	-0.38	0.92	0.0	106.7	0.0000	0.0000	97
98	-0.77	1.85	0.0	106.7	0.0000	0.0000	98
99	-1.15	2.77	0.0	106.7	0.0000	0.0000	99
100	-1.53	3.70	0.0	106.7	0.0000	0.0000	100
101	-1.91	4.62	0.0	106.7	0.0000	0.0000	101
102	-2.30	5.54	0.0	109.7	0.0000	0.0000	102
103	-2.68	6.47	0.0	115.8	0.0000	0.0000	103
104	-3.06	7.39	0.0	118.9	0.0000	0.0000	104
105	-3.44	8.31	0.0	121.9	0.0000	0.0000	105
106	-3.83	9.24	0.0	121.9	0.0000	0.0000	106
107	-5.74	13.86	0.0	121.9	0.0000	0.0000	107
108	-7.76	18.48	0.0	121.9	0.0000	0.0000	108
109	-9.57	23.10	0.0	121.9	0.0000	0.0000	109
110	-11.48	27.72	0.0	121.9	0.0000	0.0000	110

100

111	-15.31	36.96	0.0	121.9	0.0000	0.0000	111
112	-19.13	46.19	0.0	121.9	0.0000	0.0000	112
113	0.00	1.00	0.0	106.7	0.0000	0.0000	113
114	0.00	2.00	0.0	106.7	0.0000	0.0000	114
115	0.00	3.00	0.0	106.7	0.0000	0.0000	115
116	0.00	4.00	0.0	106.7	0.0000	0.0000	116
117	0.00	5.00	0.0	106.7	0.0000	0.0000	117
118	0.00	6.00	0.0	106.7	0.0000	0.0000	118
119	0.00	7.00	0.0	106.7	0.0000	0.0000	119
120	0.00	8.00	0.0	106.7	0.0000	0.0000	120
121	0.00	9.00	0.0	106.7	0.0000	0.0000	121
122	0.00	10.00	0.0	106.7	0.0000	0.0000	122
123	0.00	15.00	0.0	106.7	0.0000	0.0000	123
124	0.00	20.00	0.0	106.7	0.0000	0.0000	124
125	0.00	25.00	0.0	106.7	0.0000	0.0000	125
126	0.00	30.00	0.0	106.7	0.0000	0.0000	126
127	0.00	40.00	0.0	106.7	0.0000	0.0000	127
128	0.00	50.00	0.0	106.7	0.0000	0.0000	128

Susitna DEIS Comments
Nenana Site 200 MW Coal Fired Plant
Worst Case Impacts for SO2 Using Worst Case Coal

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 84/ 1 : HOUR 16

RECEPTOR NO.	NAME	EAST COORD	NORTH COORD	RECEPTOR HT ABV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1		-0.38	-0.92	0.0	106.7	0.0000	0.0000	1
2		-0.77	-1.85	0.0	106.7	0.0000	0.0000	2
3		-1.15	-2.77	0.0	106.7	0.0000	0.0000	3
4		-1.53	-3.70	0.0	106.7	0.0000	0.0000	4
5		-1.91	-4.62	0.0	106.7	0.0000	0.0000	5
6		-2.30	-5.54	0.0	106.7	0.0000	0.0000	6
7		-2.68	-6.47	0.0	106.7	0.0000	0.0000	7
8		-3.06	-7.39	0.0	106.7	0.0000	0.0000	8
9		-3.44	-8.31	0.0	106.7	0.0000	0.0000	9
10		-3.83	-9.24	0.0	106.7	0.0000	0.0000	10
11		-5.74	-13.86	0.0	106.7	0.0000	0.0000	11
12		-7.76	-18.48	0.0	106.7	0.0000	0.0000	12
13		-9.57	-23.10	0.0	106.7	0.0000	0.0000	13
14		-11.48	-27.72	0.0	106.7	0.0000	0.0000	14
15		-15.31	-36.96	0.0	106.7	0.0000	0.0000	15
16		-19.13	-46.19	0.0	106.7	0.0000	0.0000	16
17		-0.71	-0.71	0.0	106.7	0.0000	0.0000	17
18		-1.41	-1.41	0.0	106.7	0.0000	0.0000	18
19		-2.12	-2.12	0.0	106.7	0.0000	0.0000	19
20		-2.83	-2.83	0.0	106.7	0.0000	0.0000	20
21		-3.54	-3.54	0.0	106.7	0.0000	0.0000	21
22		-4.24	-4.24	0.0	106.7	0.0000	0.0000	22
23		-4.95	-4.95	0.0	106.7	0.0000	0.0000	23
24		-5.66	-5.66	0.0	106.7	0.0000	0.0000	24
25		-6.36	-6.36	0.0	106.7	0.0000	0.0000	25
26		-7.07	-7.07	0.0	106.7	0.0000	0.0000	26
27		-10.61	-10.61	0.0	106.7	0.0000	0.0000	27
28		-14.14	-14.14	0.0	106.7	0.0000	0.0000	28
29		-17.68	-17.68	0.0	106.7	0.0000	0.0000	29
30		-21.21	-21.21	0.0	106.7	0.0000	0.0000	30
31		-28.28	-28.28	0.0	106.7	0.0000	0.0000	31
32		-35.36	-35.36	0.0	106.7	0.0000	0.0000	32
33		-0.92	-0.38	0.0	106.7	0.0000	0.0000	33
34		-1.85	-0.77	0.0	106.7	0.0000	0.0000	34
35		-2.77	-1.15	0.0	106.7	0.0000	0.0000	35
36		-3.70	-1.53	0.0	106.7	0.0000	0.0000	36
37		-4.62	-1.91	0.0	106.7	0.0000	0.0000	37
38		-5.54	-2.30	0.0	106.7	0.0000	0.0000	38
39		-6.47	-2.68	0.0	106.7	0.0000	0.0000	39
40		-7.39	-3.06	0.0	106.7	0.0000	0.0000	40
41		-8.31	-3.44	0.0	106.7	0.0000	0.0000	41
42		-9.24	-3.83	0.0	106.7	0.0000	0.0000	42
43		-13.86	-5.74	0.0	106.7	0.0000	0.0000	43
44		-18.48	-7.65	0.0	106.7	0.0000	0.0000	44
45		-23.10	-9.57	0.0	106.7	0.0000	0.0000	45
46		-27.72	-11.48	0.0	106.7	0.0000	0.0000	46
47		-36.96	-15.31	0.0	106.7	0.0000	0.0000	47
48		-46.19	-19.13	0.0	106.7	0.0000	0.0000	48
49		-1.00	0.00	0.0	106.7	0.0000	0.0000	49

102

50	-2.00	0.00	0.0	106.7	0.0000	0.0000	50
51	-3.00	0.00	0.0	106.7	0.0000	0.0000	51
52	-4.00	0.00	0.0	106.7	0.0000	0.0000	52
53	-5.00	0.00	0.0	106.7	0.0000	0.0000	53
54	-6.00	0.00	0.0	106.7	0.0000	0.0000	54
55	-7.00	0.00	0.0	106.7	0.0000	0.0000	55
56	-8.00	0.00	0.0	106.7	0.0000	0.0000	56
57	-9.00	0.00	0.0	106.7	0.0000	0.0000	57
58	-10.00	0.00	0.0	106.7	0.0000	0.0000	58
59	-15.00	0.00	0.0	106.7	0.0000	0.0000	59
60	-20.00	0.00	0.0	106.7	0.0000	0.0000	60
61	-25.00	0.00	0.0	106.7	0.0000	0.0000	61
62	-30.00	0.00	0.0	106.7	0.0000	0.0000	62
63	-40.00	0.00	0.0	106.7	0.0000	0.0000	63
64	-50.00	0.00	0.0	106.7	0.0000	0.0000	64
65	-0.92	0.38	0.0	106.7	0.0000	0.0000	65
66	-1.85	0.77	0.0	106.7	0.0000	0.0000	66
67	-2.77	1.15	0.0	106.7	0.0000	0.0000	67
68	-3.70	1.53	0.0	106.7	0.0000	0.0000	68
69	-4.62	1.91	0.0	106.7	0.0000	0.0000	69
70	-5.54	2.30	0.0	106.7	0.0000	0.0000	70
71	-6.47	2.68	0.0	106.7	0.0000	0.0000	71
72	-7.39	3.06	0.0	106.7	0.0000	0.0000	72
73	-8.31	3.44	0.0	106.7	0.0000	0.0000	73
74	-9.24	3.83	0.0	106.7	0.0000	0.0000	74
75	-13.86	5.74	0.0	106.7	0.0000	0.0000	75
76	-18.48	7.65	0.0	106.7	0.0000	0.0000	76
77	-23.10	9.57	0.0	106.7	0.0000	0.0000	77
78	-27.72	11.48	0.0	106.7	0.0000	0.0000	78
79	-36.96	15.31	0.0	106.7	0.0000	0.0000	79
80	-46.19	19.13	0.0	106.7	0.0000	0.0000	80
81	-0.71	0.71	0.0	106.7	0.0000	0.0000	81
82	-1.41	1.41	0.0	106.7	0.0000	0.0000	82
83	-2.12	2.12	0.0	106.7	0.0000	0.0000	83
84	-2.83	2.83	0.0	106.7	0.0000	0.0000	84
85	-3.54	3.54	0.0	106.7	0.0000	0.0000	85
86	-4.24	4.24	0.0	109.7	0.0000	0.0000	86
87	-4.95	4.95	0.0	115.8	0.0000	0.0000	87
88	-5.66	5.66	0.0	121.9	0.0000	0.0000	88
89	-6.36	6.36	0.0	121.9	0.0000	0.0000	89
90	-7.07	7.07	0.0	121.9	0.0000	0.0000	90
91	-10.61	10.61	0.0	121.9	0.0000	0.0000	91
92	-14.14	14.14	0.0	121.9	0.0000	0.0000	92
93	-17.68	17.68	0.0	121.9	0.0000	0.0000	93
94	-21.21	21.21	0.0	121.9	0.0000	0.0000	94
95	-28.28	28.28	0.0	121.9	0.0000	0.0000	95
96	-35.36	35.36	0.0	121.9	0.0000	0.0000	96
97	-0.38	0.92	0.0	106.7	0.0000	0.0000	97
98	-0.77	1.85	0.0	106.7	0.0000	0.0000	98
99	-1.15	2.77	0.0	106.7	0.0000	0.0000	99
100	-1.53	3.70	0.0	106.7	0.0000	0.0000	100
101	-1.91	4.62	0.0	106.7	0.0000	0.0000	101
102	-2.30	5.54	0.0	109.7	0.0000	0.0000	102
103	-2.68	6.47	0.0	115.8	0.0000	0.0000	103
104	-3.06	7.39	0.0	118.9	0.0000	0.0000	104
105	-3.44	8.31	0.0	121.9	0.0000	0.0000	105
106	-3.83	9.24	0.0	121.9	0.0000	0.0000	106
107	-5.74	13.86	0.0	121.9	0.0000	0.0000	107
108	-7.76	18.48	0.0	121.9	0.0000	0.0000	108
109	-9.57	23.10	0.0	121.9	0.0000	0.0000	109
110	-11.48	27.72	0.0	121.9	0.0000	0.0000	110

111	-15.31	36.96	0.0	121.9	0.0000	0.0000	111
112	-19.13	46.19	0.0	121.9	0.0000	0.0000	112
113	0.00	1.00	0.0	106.7	0.0000	0.0000	113
114	0.00	2.00	0.0	106.7	0.0000	0.0000	114
115	0.00	3.00	0.0	106.7	0.0000	0.0000	115
116	0.00	4.00	0.0	106.7	0.0000	0.0000	116
117	0.00	5.00	0.0	106.7	0.0000	0.0000	117
118	0.00	6.00	0.0	106.7	0.0000	0.0000	118
119	0.00	7.00	0.0	106.7	0.0000	0.0000	119
120	0.00	8.00	0.0	106.7	0.0000	0.0000	120
121	0.00	9.00	0.0	106.7	0.0000	0.0000	121
122	0.00	10.00	0.0	106.7	0.0000	0.0000	122
123	0.00	15.00	0.0	106.7	0.0000	0.0000	123
124	0.00	20.00	0.0	106.7	0.0000	0.0000	124
125	0.00	25.00	0.0	106.7	0.0000	0.0000	125
126	0.00	30.00	0.0	106.7	0.0000	0.0000	126
127	0.00	40.00	0.0	106.7	0.0000	0.0000	127
128	0.00	50.00	0.0	106.7	0.0000	0.0000	128

3.c.2.

COMPLEX Computer Runs for

Annual SO_2 Impacts at Willow Power Plant

610541

COMPLEX I - VERSION 80353

Susitna DEIS Comments
Willow Site Coal Fired Plant
Worst Case Impacts for SO2 Using Worst Case Coal

COMPLEXI (VERSION 81052)
AN AIR QUALITY DISPERSION MODEL IN
SECTION 2. NON-GUIDELINE MODELS.
IN UNAMAP (VERSION 5) DEC 82
SOURCE: FILE 16 ON UNAMAP MAGNETIC TAPE FROM NTIS.

GENERAL INPUT INFORMATION

THIS RUN OF COMPLEX I -VERSION 80353 IS FOR THE POLLUTANT SO2 FOR 16 1-HOUR PERIODS.
CONCENTRATION ESTIMATES BEGIN ON HOUR- 1,JULIAN DAY- 1, YEAR-1984.
A FACTOR OF 1.0000000 HASBEEN SPECIFIED TO CONVERT USER LENGTH UNITS TO KILOMETERS.
0 SIGNIFICANT SOURCES ARE TO BE CONSIDERED.
THIS RUN WILL NOT CONSIDER ANY POLLUTANT LOSS.
A FACTOR OF 0.3048000 HAS BEEN SPECIFIED TO CONVERT USER HEIGHT UNITS TO METERS.

OPTION	OPTION LIST	OPTION SPECIFICATION : 0= IGNORE OPTION 1= USE OPTION
	TECHNICAL OPTIONS	
1	TERRAIN ADJUSTMENTS	1
2	DO NOT INCLUDE STACK DOWNWASH CALCULATIONS	1
3	DO NOT INCLUDE GRADUAL PLUME RISE CALCULATIONS	1
4	CALCULATE INITIAL PLUME SIZE	0
	INPUT OPTIONS	
5	READ MET DATA FROM CARDS	1
6	READ HOURLY EMISSIONS	0
7	SPECIFY SIGNIFICANT SOURCES	0
8	READ RADIAL DISTANCES TO GENERATE RECEPTORS	0
	PRINTED OUTPUT OPTIONS	
9	DELETE EMISSIONS WITHHEIGHT TABLE	1
10	DELETE MET DATA SUMMARY FOR AVG PERIOD	1
11	DELETE HOURLY CONTRIBUTIONS	1
12	DELETE MET DATA ON HOURLY CONTRIBUTIONS	1
13	DELETE FINAL PLUME RISE CALC ON HRLY CONTRIBUTIONS	1
14	DELETE HOURLY SUMMARY	0
15	DELETE MET DATA ON HRLY SUMMARY	1
16	DELETE FINAL PLUME RISE CALC ON HRLY SUMMARY	1
17	DELETE AVG-PERIOD CONTRIBUTIONS	1
18	DELETE AVERAGING PERIOD SUMMARY	1
19	DELETE AVG CONCENTRATIONS AND HI-5TABLES	1
	OTHER CONTROL AND OUTPUT OPTIONS	
20	RUN IS PART OF A SEGMENTED RUN	0
21	WRITE PARTIAL CONC TO DISK OR TAPE	0
22	WRITE HOURLY CONC TO DISK OR TAPE	0
23	WRITE AVG-PERIOD CONC TO DISKOR TAPE	0
24	PUNCH AVG-PERIOD CONC ONTO CARDS	0
25	COMPLEX TERRAIN OPTION	3

ANEMOMETER HEIGHT IS: 10.00
EXPONENTS FOR POWER- LAW WIND INCREASE WITH HEIGHT ARE:0.07,0.07,0.10,0.15,0.35,0.55
TERRAIN ADJUSTMENTS ARE: 1.000,1.000,1.000,1.000,0.000,0.000 ZMIN IS 10.0

POINT SOURCE INFORMATION

SOURCE	EAST COORD (USER UNITS)	NORTH COORD (USER UNITS)	SO2(G/SEC) EMISSIONS	PART(G/SEC) EMISSIONS	STACK HT(M)	STACK TEMP(K)	STACK DIAM(M)	STACK VEL(M/SEC)	POTEN. IMPACT (MICRO G/M**3)	EFF HT(M)	GRD-LVL ELEV USER HT UNITS	BUOY FLUX F M**4/S**3
1 two units	0.00	0.00	57.30	0.00	134.0	361.0	5.5	20.1	15.20	513.11	150.00	279.76

ADDITIONAL INFORMATION ON SOURCES.

EMISSION INFORMATION FOR 1 (NPT) POINT SOURCES HAS BEEN INPUT
0 SIGNIFICANT POINT SOURCES(NSIGP) ARE TO BE USED FOR THIS RUN
THE ORDER OF SIGNIFICANCE(IMPS) FOR 25 OR LESS POINT SOURCES USED IN THIS RUN AS LISTED BY POINTSOURCE NUMBER:

RECEPTOR INFORMATION

RECEPTOR	IDENTIFICATION	EAST COORD (USER UNITS)	NORTH COORD (USER UNITS)	RECEPTOR HT ABV LOCAL GRD LVL (METERS)	RECEPTOR GROUND LEVEL ELEVATION (USER HT UNITS)
1		0.383	0.924	0.0	170.0
2		0.765	1.848	0.0	200.0
3		1.148	2.772	0.0	200.0
4		1.531	3.695	0.0	200.0
5		1.913	4.619	0.0	200.0
6		2.296	5.543	0.0	200.0
7		2.679	6.467	0.0	200.0
8		3.062	7.391	0.0	200.0
9		3.444	8.315	0.0	200.0
10		3.827	9.239	0.0	200.0
11		5.740	13.858	0.0	250.0
12		7.764	18.478	0.0	400.0
13		9.567	23.097	0.0	400.0
14		11.481	27.716	0.0	400.0
15		15.307	36.955	0.0	400.0
16		19.134	46.194	0.0	400.0
17		0.707	0.707	0.0	150.0
18		1.414	1.414	0.0	200.0
19		2.121	2.121	0.0	200.0
20		2.828	2.828	0.0	200.0
21		3.536	3.536	0.0	200.0
22		4.243	4.243	0.0	200.0
23		4.950	4.950	0.0	200.0
24		5.657	5.657	0.0	200.0
25		6.364	6.364	0.0	200.0
26		7.071	7.071	0.0	300.0
27		10.607	10.607	0.0	400.0
28**		14.142	14.142	0.0	750.0
29**		17.678	17.678	0.0	1250.0
30**		21.213	21.213	0.0	600.0
31		28.284	28.284	0.0	400.0
32		35.355	35.355	0.0	400.0
33		0.924	0.383	0.0	150.0
34		1.848	0.765	0.0	200.0
35		2.772	1.148	0.0	200.0
36		3.695	1.531	0.0	200.0
37		4.619	1.913	0.0	200.0
38		5.543	2.296	0.0	200.0
39		6.467	2.679	0.0	200.0

40	7.391	3.062	0.0	200.0
41	8.315	3.444	0.0	200.0
42	9.239	3.827	0.0	300.0
43**	13.858	5.740	0.0	600.0
44**	18.478	7.654	0.0	1800.0
45**	23.097	9.567	0.0	3000.0
46**	27.716	11.481	0.0	3500.0
47**	36.955	15.307	0.0	4000.0
48**	46.194	19.134	0.0	2000.0
49	1.000	0.000	0.0	150.0
50	2.000	0.000	0.0	150.0
51	3.000	0.000	0.0	200.0
52	4.000	0.000	0.0	200.0
53	5.000	0.000	0.0	200.0
54	6.000	0.000	0.0	200.0
55	7.000	0.000	0.0	200.0
56	8.000	0.000	0.0	200.0
57	9.000	0.000	0.0	200.0
58	10.000	0.000	0.0	300.0
59**	15.000	0.000	0.0	750.0
60**	20.000	0.000	0.0	1600.0
61**	25.000	0.000	0.0	2000.0
62**	30.000	0.000	0.0	3000.0
63**	40.000	0.000	0.0	3600.0
64**	50.000	0.000	0.0	4000.0
65	0.924	-0.383	0.0	150.0
66	1.848	-0.765	0.0	160.0
67	2.772	-1.148	0.0	170.0
68	3.695	-1.531	0.0	180.0
69	4.619	-1.913	0.0	190.0
70	5.543	-2.296	0.0	200.0
71	6.467	-2.679	0.0	200.0
72	7.391	-3.061	0.0	200.0
73	8.315	-3.444	0.0	200.0
74	9.239	-3.827	0.0	200.0
75**	13.858	-5.740	0.0	600.0
76**	18.478	-7.654	0.0	1400.0
77**	23.097	-9.567	0.0	1600.0
78**	27.716	-11.481	0.0	3000.0
79**	36.955	-15.307	0.0	1000.0
80**	46.194	-19.134	0.0	600.0
81	0.707	-0.707	0.0	150.0
82	1.414	-1.414	0.0	150.0
83	2.121	-2.121	0.0	160.0
84	2.829	-2.828	0.0	170.0
85	3.536	-3.536	0.0	180.0
86	4.243	-4.243	0.0	190.0
87	4.950	-4.950	0.0	200.0
88	5.657	-5.657	0.0	200.0
89	6.364	-6.364	0.0	200.0
90	7.071	-7.071	0.0	200.0
91	10.607	-10.607	0.0	400.0
92**	14.142	-14.142	0.0	700.0
93**	17.678	-17.678	0.0	600.0
94	21.213	-21.213	0.0	300.0
95	28.284	-28.284	0.0	300.0
96 *	35.355	-35.355	0.0	20.0
97	0.383	-0.924	0.0	150.0
98	0.765	-1.848	0.0	150.0
99	1.148	-2.772	0.0	150.0
100	1.531	-3.695	0.0	150.0

101	1.913	-4.619	0.0	160.0
102	2.296	-5.543	0.0	170.0
103	2.679	-6.467	0.0	180.0
104	3.062	-7.391	0.0	190.0
105	3.444	-8.315	0.0	200.0
106	3.827	-9.239	0.0	200.0
107	5.740	-13.858	0.0	200.0
108	7.764	-18.478	0.0	200.0
109	9.567	-23.097	0.0	200.0
110	11.481	-27.716	0.0	150.0
111 *	15.307	-36.955	0.0	100.0
112 *	19.134	-46.194	0.0	10.0
113	0.000	-1.000	0.0	150.0
114	0.000	-2.000	0.0	150.0
115	0.000	-3.000	0.0	150.0
116	0.000	-4.000	0.0	150.0
117	0.000	-5.000	0.0	150.0
118	0.000	-6.000	0.0	160.0
119	0.000	-7.000	0.0	170.0
120	0.000	-8.000	0.0	180.0
121	0.000	-9.000	0.0	190.0
122	0.000	-10.000	0.0	200.0
123	0.000	-15.000	0.0	200.0
124	0.000	-20.000	0.0	200.0
125	0.000	-25.000	0.0	200.0
126	0.000	-30.000	0.0	200.0
127	0.000	-40.000	0.0	200.0
128	0.000	-50.000	0.0	200.0

* ONE ASTERISK INDICATES THAT THE ASSOCIATED RECEPTOR(S) HAVE A GROUND LEVEL ELEVATION LOWER THAN THE LOWEST SOURCE BASE ELEVATION. CAUTION SHOULD BE USED IN INTERPRETING CONCENTRATIONS FOR THESE RECEPTORS.

** TWO ASTERISKS INDICATE THAT THE ASSOCIATED RECEPTOR(S) HAVE GROUND LEVEL ELEVATIONS ABOVE THE LOWEST STACK TOP. CONSEQUENTLY NO CALCULATIONS WILL BE PERFORMED WITH THIS RECEPTOR.A SERIES OF ASTERISKS WILL INSTEAD APPEAR IN THE OUTPUT.

4

Susitna DEIS Comments
Willow Site Coal Fired Plant
Worst Case Impacts for SO2 Using Worst Case Coal

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 84/ 1 : HOUR 1

RECEPTOR NO.	NAME	EAST COORD	NORTH COORD	RECEPTOR HT ABV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1		0.38	0.92	0.0	170.0	0.0000	0.0000	16
2		0.77	1.85	0.0	200.0	0.0000	0.0000	17
3		1.15	2.77	0.0	200.0	0.0000	0.0000	18
4		1.53	3.70	0.0	200.0	0.0000	0.0000	19
5		1.91	4.62	0.0	200.0	0.0000	0.0000	20
6		2.30	5.54	0.0	200.0	0.0000	0.0000	21
7		2.68	6.47	0.0	200.0	0.0000	0.0000	22
8		3.06	7.39	0.0	200.0	0.0000	0.0000	23
9		3.44	8.31	0.0	200.0	0.0000	0.0000	24
10		3.83	9.24	0.0	200.0	0.0000	0.0000	25
11		5.74	13.86	0.0	250.0	0.0000	0.0000	26
12		7.76	18.48	0.0	400.0	0.0000	0.0000	27
13		9.57	23.10	0.0	400.0	0.0000	0.0000	28
14		11.48	27.72	0.0	400.0	0.0000	0.0000	29
15		15.31	36.96	0.0	400.0	0.0000	0.0000	30
16		19.13	46.19	0.0	400.0	0.0000	0.0000	31
17		0.71	0.71	0.0	150.0	0.0000	0.0000	32
18		1.41	1.41	0.0	200.0	0.0000	0.0000	33
19		2.12	2.12	0.0	200.0	0.0000	0.0000	34
20		2.83	2.83	0.0	200.0	0.0000	0.0000	35
21		3.54	3.54	0.0	200.0	0.0000	0.0000	36
22		4.24	4.24	0.0	200.0	0.0000	0.0000	37
23		4.95	4.95	0.0	200.0	0.0000	0.0000	38
24		5.66	5.66	0.0	200.0	0.0000	0.0000	39
25		6.36	6.36	0.0	200.0	0.0000	0.0000	40
26		7.07	7.07	0.0	300.0	0.0000	0.0000	41
27		10.61	10.61	0.0	400.0	0.0000	0.0000	42
28**		14.14	14.14	0.0	750.0	0.0000	0.0000	43
29**		17.68	17.68	0.0	1250.0	0.0000	0.0000	44
30**		21.21	21.21	0.0	600.0	0.0000	0.0000	45
31		28.28	28.28	0.0	400.0	0.0000	0.0000	46
32		35.36	35.36	0.0	400.0	0.0000	0.0000	47
33		0.92	0.38	0.0	150.0	0.0000	0.0000	48
34		1.85	0.77	0.0	200.0	0.0000	0.0000	49
35		2.77	1.15	0.0	200.0	0.0000	0.0000	50
36		3.70	1.53	0.0	200.0	0.0000	0.0000	51
37		4.62	1.91	0.0	200.0	0.0000	0.0000	52
38		5.54	2.30	0.0	200.0	0.0000	0.0000	53
39		6.47	2.68	0.0	200.0	0.0000	0.0000	54
40		7.39	3.06	0.0	200.0	0.0000	0.0000	55
41		8.31	3.44	0.0	200.0	0.0000	0.0000	56
42		9.24	3.83	0.0	300.0	0.0000	0.0000	57
43**		13.86	5.74	0.0	600.0	0.0000	0.0000	58
44**		18.48	7.65	0.0	1800.0	0.0000	0.0000	59
45**		23.10	9.57	0.0	3000.0	0.0000	0.0000	60
46**		27.72	11.48	0.0	3500.0	0.0000	0.0000	61
47**		36.96	15.31	0.0	4000.0	0.0000	0.0000	62
48**		46.19	19.13	0.0	2000.0	0.0000	0.0000	63
49		1.00	0.00	0.0	150.0	0.0000	0.0000	64

5

50	2.00	0.00	0.0	150.0	0.0000	0.0000	65
51	3.00	0.00	0.0	200.0	0.0000	0.0000	66
52	4.00	0.00	0.0	200.0	0.0000	0.0000	67
53	5.00	0.00	0.0	200.0	0.0000	0.0000	68
54	6.00	0.00	0.0	200.0	0.0000	0.0000	69
55	7.00	0.00	0.0	200.0	0.0000	0.0000	70
56	8.00	0.00	0.0	200.0	0.0000	0.0000	71
57	9.00	0.00	0.0	200.0	0.0000	0.0000	72
58	10.00	0.00	0.0	300.0	0.0000	0.0000	73
59**	15.00	0.00	0.0	750.0	0.0000	0.0000	74
60**	20.00	0.00	0.0	1600.0	0.0000	0.0000	75
61**	25.00	0.00	0.0	2000.0	0.0000	0.0000	76
62**	30.00	0.00	0.0	3000.0	0.0000	0.0000	77
63**	40.00	0.00	0.0	3600.0	0.0000	0.0000	78
64**	50.00	0.00	0.0	4000.0	0.0000	0.0000	79
65	0.92	-0.38	0.0	150.0	0.0000	0.0000	80
66	1.85	-0.77	0.0	160.0	0.0000	0.0000	81
67	2.77	-1.15	0.0	170.0	0.0000	0.0000	82
68	3.70	-1.53	0.0	180.0	0.0000	0.0000	83
69	4.62	-1.91	0.0	190.0	0.0000	0.0000	84
70	5.54	-2.30	0.0	200.0	0.0000	0.0000	85
71	6.47	-2.68	0.0	200.0	0.0000	0.0000	86
72	7.39	-3.06	0.0	200.0	0.0000	0.0000	87
73	8.31	-3.44	0.0	200.0	0.0000	0.0000	88
74	9.24	-3.83	0.0	200.0	0.0000	0.0000	89
75**	13.86	-5.74	0.0	600.0	0.0000	0.0000	90
76**	18.48	-7.65	0.0	1400.0	0.0000	0.0000	91
77**	23.10	-9.57	0.0	1600.0	0.0000	0.0000	92
78**	27.72	-11.48	0.0	3000.0	0.0000	0.0000	93
79**	36.96	-15.31	0.0	1000.0	0.0000	0.0000	94
80**	46.19	-19.13	0.0	600.0	0.0000	0.0000	95
81	0.71	-0.71	0.0	150.0	0.0000	0.0000	96
82	1.41	-1.41	0.0	150.0	0.0000	0.0000	97
83	2.12	-2.12	0.0	160.0	0.0000	0.0000	98
84	2.83	-2.83	0.0	170.0	0.0000	0.0000	99
85	3.54	-3.54	0.0	180.0	0.0000	0.0000	100
86	4.24	-4.24	0.0	190.0	0.0000	0.0000	101
87	4.95	-4.95	0.0	200.0	0.0000	0.0000	102
88	5.66	-5.66	0.0	200.0	0.0000	0.0000	103
89	6.36	-6.36	0.0	200.0	0.0000	0.0000	104
90	7.07	-7.07	0.0	200.0	0.0000	0.0000	105
91	10.61	-10.61	0.0	400.0	0.0000	0.0000	106
92**	14.14	-14.14	0.0	700.0	0.0000	0.0000	107
93**	17.68	-17.68	0.0	600.0	0.0000	0.0000	108
94	21.21	-21.21	0.0	300.0	0.0000	0.0000	109
95	28.28	-28.28	0.0	300.0	0.0000	0.0000	110
96 *	35.36	-35.36	0.0	20.0	0.0000	0.0000	111
97	0.38	-0.92	0.0	150.0	0.0000	0.0000	112
98	0.77	-1.85	0.0	150.0	0.0000	0.0000	113
99	1.15	-2.77	0.0	150.0	0.0000	0.0000	114
100	1.53	-3.70	0.0	150.0	0.0000	0.0000	115
101	1.91	-4.62	0.0	160.0	0.0000	0.0000	116
102	2.30	-5.54	0.0	170.0	0.0000	0.0000	117
103	2.68	-6.47	0.0	180.0	0.0000	0.0000	118
104	3.06	-7.39	0.0	190.0	0.0000	0.0000	119
105	3.44	-8.31	0.0	200.0	0.0000	0.0000	120
106	3.83	-9.24	0.0	200.0	0.0000	0.0000	121
107	5.74	-13.86	0.0	200.0	0.0000	0.0000	122
108	7.76	-18.48	0.0	200.0	0.0000	0.0000	123
109	9.57	-23.10	0.0	200.0	0.0000	0.0000	124
110	11.48	-27.72	0.0	150.0	0.0000	0.0000	125

111 *	15.31	-36.96	0.0	100.0	0.0000	0.0000	126
112 *	19.13	-46.19	0.0	10.0	0.0000	0.0000	127
113	0.00	-1.00	0.0	150.0	0.0000	0.0000	128
114	0.00	-2.00	0.0	150.0	0.0000	0.0000	15
115	0.00	-3.00	0.0	150.0	0.0000	0.0000	14
116	0.00	-4.00	0.0	150.0	0.0000	0.0002	13
117	0.00	-5.00	0.0	150.0	0.0000	0.0031	12
118	0.00	-6.00	0.0	160.0	0.0000	0.0157	11
119	0.00	-7.00	0.0	170.0	0.0000	0.0468	10
120	0.00	-8.00	0.0	180.0	0.0000	0.1003	9
121	0.00	-9.00	0.0	190.0	0.0000	0.1740	8
122	0.00	-10.00	0.0	200.0	0.0000	0.2620	7
123	0.00	-15.00	0.0	200.0	0.0000	0.6332	6
124	0.00	-20.00	0.0	200.0	0.0000	0.8364	3
125	0.00	-25.00	0.0	200.0	0.0000	0.9013	1
126	0.00	-30.00	0.0	200.0	0.0000	0.8927	2
127	0.00	-40.00	0.0	200.0	0.0000	0.7859	4
128	0.00	-50.00	0.0	200.0	0.0000	0.6740	5

N

Susitna DEIS Comments
Willow Site Coal Fired Plant
Worst Case Impacts for SO2 Using Worst Case Coal

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 84/ 1 : HOUR 2

RECEPTOR NO. NAME	EAST COORD	NORTH COORD	RECEPTOR HT ABV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1	0.38	0.92	0.0	170.0	0.0000	0.0000	1
2	0.77	1.85	0.0	200.0	0.0000	0.0000	2
3	1.15	2.77	0.0	200.0	0.0000	0.0000	3
4	1.53	3.70	0.0	200.0	0.0000	0.0000	4
5	1.91	4.62	0.0	200.0	0.0000	0.0000	5
6	2.30	5.54	0.0	200.0	0.0000	0.0000	6
7	2.68	6.47	0.0	200.0	0.0000	0.0000	7
8	3.06	7.39	0.0	200.0	0.0000	0.0000	8
9	3.44	8.31	0.0	200.0	0.0000	0.0000	9
10	3.83	9.24	0.0	200.0	0.0000	0.0000	10
11	5.74	13.86	0.0	250.0	0.0000	0.0000	11
12	7.76	18.48	0.0	400.0	0.0000	0.0000	12
13	9.57	23.10	0.0	400.0	0.0000	0.0000	13
14	11.48	27.72	0.0	400.0	0.0000	0.0000	14
15	15.31	36.96	0.0	400.0	0.0000	0.0000	15
16	19.13	46.19	0.0	400.0	0.0000	0.0000	16
17	0.71	0.71	0.0	150.0	0.0000	0.0000	17
18	1.41	1.41	0.0	200.0	0.0000	0.0000	18
19	2.12	2.12	0.0	200.0	0.0000	0.0000	19
20	2.83	2.83	0.0	200.0	0.0000	0.0000	20
21	3.54	3.54	0.0	200.0	0.0000	0.0000	21
22	4.24	4.24	0.0	200.0	0.0000	0.0000	22
23	4.95	4.95	0.0	200.0	0.0000	0.0000	23
24	5.66	5.66	0.0	200.0	0.0000	0.0000	24
25	6.36	6.36	0.0	200.0	0.0000	0.0000	25
26	7.07	7.07	0.0	300.0	0.0000	0.0000	26
27	10.61	10.61	0.0	400.0	0.0000	0.0000	27
28**	14.14	14.14	0.0	750.0	0.0000	0.0000	28
29**	17.68	17.68	0.0	1250.0	0.0000	0.0000	29
30**	21.21	21.21	0.0	600.0	0.0000	0.0000	30
31	28.28	28.28	0.0	400.0	0.0000	0.0000	31
32	35.36	35.36	0.0	400.0	0.0000	0.0000	32
33	0.92	0.38	0.0	150.0	0.0000	0.0000	33
34	1.85	0.77	0.0	200.0	0.0000	0.0000	34
35	2.77	1.15	0.0	200.0	0.0000	0.0000	35
36	3.70	1.53	0.0	200.0	0.0000	0.0000	36
37	4.62	1.91	0.0	200.0	0.0000	0.0000	37
38	5.54	2.30	0.0	200.0	0.0000	0.0000	38
39	6.47	2.68	0.0	200.0	0.0000	0.0000	39
40	7.39	3.06	0.0	200.0	0.0000	0.0000	40
41	8.31	3.44	0.0	200.0	0.0000	0.0000	41
42	9.24	3.83	0.0	300.0	0.0000	0.0000	42
43**	13.86	5.74	0.0	600.0	0.0000	0.0000	43
44**	18.48	7.65	0.0	1800.0	0.0000	0.0000	44
45**	23.10	9.57	0.0	3000.0	0.0000	0.0000	45
46**	27.72	11.48	0.0	3500.0	0.0000	0.0000	46
47**	36.96	15.31	0.0	4000.0	0.0000	0.0000	47
48**	46.19	19.13	0.0	2000.0	0.0000	0.0000	48
49	1.00	0.00	0.0	150.0	0.0000	0.0000	49

8

50	2.00	0.00	0.0	150.0	0.0000	0.0000	50
51	3.00	0.00	0.0	200.0	0.0000	0.0000	51
52	4.00	0.00	0.0	200.0	0.0000	0.0000	52
53	5.00	0.00	0.0	200.0	0.0000	0.0000	53
54	6.00	0.00	0.0	200.0	0.0000	0.0000	54
55	7.00	0.00	0.0	200.0	0.0000	0.0000	55
56	8.00	0.00	0.0	200.0	0.0000	0.0000	56
57	9.00	0.00	0.0	200.0	0.0000	0.0000	57
58	10.00	0.00	0.0	300.0	0.0000	0.0000	58
59**	15.00	0.00	0.0	750.0	0.0000	0.0000	59
60**	20.00	0.00	0.0	1600.0	0.0000	0.0000	60
61**	25.00	0.00	0.0	2000.0	0.0000	0.0000	61
62**	30.00	0.00	0.0	3000.0	0.0000	0.0000	62
63**	40.00	0.00	0.0	3600.0	0.0000	0.0000	63
64**	50.00	0.00	0.0	4000.0	0.0000	0.0000	64
65	0.92	-0.38	0.0	150.0	0.0000	0.0000	65
66	1.85	-0.77	0.0	160.0	0.0000	0.0000	66
67	2.77	-1.15	0.0	170.0	0.0000	0.0000	67
68	3.70	-1.53	0.0	180.0	0.0000	0.0000	68
69	4.62	-1.91	0.0	190.0	0.0000	0.0000	69
70	5.54	-2.30	0.0	200.0	0.0000	0.0000	70
71	6.47	-2.68	0.0	200.0	0.0000	0.0000	71
72	7.39	-3.06	0.0	200.0	0.0000	0.0000	72
73	8.31	-3.44	0.0	200.0	0.0000	0.0000	73
74	9.24	-3.83	0.0	200.0	0.0000	0.0000	74
75**	13.86	-5.74	0.0	600.0	0.0000	0.0000	75
76**	18.48	-7.65	0.0	1400.0	0.0000	0.0000	76
77**	23.10	-9.57	0.0	1600.0	0.0000	0.0000	77
78**	27.72	-11.48	0.0	3000.0	0.0000	0.0000	78
79**	36.96	-15.31	0.0	1000.0	0.0000	0.0000	79
80**	46.19	-19.13	0.0	600.0	0.0000	0.0000	80
81	0.71	-0.71	0.0	150.0	0.0000	0.0000	81
82	1.41	-1.41	0.0	150.0	0.0000	0.0000	82
83	2.12	-2.12	0.0	160.0	0.0000	0.0000	83
84	2.83	-2.83	0.0	170.0	0.0000	0.0000	84
85	3.54	-3.54	0.0	180.0	0.0000	0.0000	85
86	4.24	-4.24	0.0	190.0	0.0000	0.0000	86
87	4.95	-4.95	0.0	200.0	0.0000	0.0000	87
88	5.66	-5.66	0.0	200.0	0.0000	0.0000	88
89	6.36	-6.36	0.0	200.0	0.0000	0.0000	89
90	7.07	-7.07	0.0	200.0	0.0000	0.0000	90
91	10.61	-10.61	0.0	400.0	0.0000	0.0000	91
92**	14.14	-14.14	0.0	700.0	0.0000	0.0000	92
93**	17.68	-17.68	0.0	600.0	0.0000	0.0000	93
94	21.21	-21.21	0.0	300.0	0.0000	0.0000	94
95	28.28	-28.28	0.0	300.0	0.0000	0.0000	95
96 *	35.36	-35.36	0.0	20.0	0.0000	0.0000	96
97	0.38	-0.92	0.0	150.0	0.0000	0.0000	97
98	0.77	-1.85	0.0	150.0	0.0000	0.0000	98
99	1.15	-2.77	0.0	150.0	0.0000	0.0000	99
100	1.53	-3.70	0.0	150.0	0.0000	0.0000	100
101	1.91	-4.62	0.0	160.0	0.0000	0.0000	101
102	2.30	-5.54	0.0	170.0	0.0000	0.0000	102
103	2.68	-6.47	0.0	180.0	0.0000	0.0000	103
104	3.06	-7.39	0.0	190.0	0.0000	0.0000	104
105	3.44	-8.31	0.0	200.0	0.0000	0.0000	105
106	3.83	-9.24	0.0	200.0	0.0000	0.0000	106
107	5.74	-13.86	0.0	200.0	0.0000	0.0000	107
108	7.76	-18.48	0.0	200.0	0.0000	0.0000	108
109	9.57	-23.10	0.0	200.0	0.0000	0.0000	109
110	11.48	-27.72	0.0	150.0	0.0000	0.0000	110

111 *	15.31	-36.96	0.0	100.0	0.0000	0.0000	111
112 *	19.13	-46.19	0.0	10.0	0.0000	0.0000	112
113	0.00	-1.00	0.0	150.0	0.0000	0.0000	113
114	0.00	-2.00	0.0	150.0	0.0000	0.0000	114
115	0.00	-3.00	0.0	150.0	0.0000	0.0000	115
116	0.00	-4.00	0.0	150.0	0.0000	0.0000	116
117	0.00	-5.00	0.0	150.0	0.0000	0.0000	117
118	0.00	-6.00	0.0	160.0	0.0000	0.0000	118
119	0.00	-7.00	0.0	170.0	0.0000	0.0000	119
120	0.00	-8.00	0.0	180.0	0.0000	0.0000	120
121	0.00	-9.00	0.0	190.0	0.0000	0.0000	121
122	0.00	-10.00	0.0	200.0	0.0000	0.0000	122
123	0.00	-15.00	0.0	200.0	0.0000	0.0000	123
124	0.00	-20.00	0.0	200.0	0.0000	0.0000	124
125	0.00	-25.00	0.0	200.0	0.0000	0.0000	125
126	0.00	-30.00	0.0	200.0	0.0000	0.0000	126
127	0.00	-40.00	0.0	200.0	0.0000	0.0000	127
128	0.00	-50.00	0.0	200.0	0.0000	0.0000	128

Susitna DEIS Comments
Willow Site Coal Fired Plant
Worst Case Impacts for SO2 Using Worst Case Coal

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 84/ 1 : HOUR 3

RECEPTOR NO.	NAME	EAST COORD	NORTH COORD	RECEPTOR HT ABV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1		0.38	0.92	0.0	170.0	0.0000	0.0000	1
2		0.77	1.85	0.0	200.0	0.0000	0.0000	2
3		1.15	2.77	0.0	200.0	0.0000	0.0000	3
4		1.53	3.70	0.0	200.0	0.0000	0.0000	4
5		1.91	4.62	0.0	200.0	0.0000	0.0000	5
6		2.30	5.54	0.0	200.0	0.0000	0.0000	6
7		2.68	6.47	0.0	200.0	0.0000	0.0000	7
8		3.06	7.39	0.0	200.0	0.0000	0.0000	8
9		3.44	8.31	0.0	200.0	0.0000	0.0000	9
10		3.83	9.24	0.0	200.0	0.0000	0.0000	10
11		5.74	13.86	0.0	250.0	0.0000	0.0000	11
12		7.76	18.48	0.0	400.0	0.0000	0.0000	12
13		9.57	23.10	0.0	400.0	0.0000	0.0000	13
14		11.48	27.72	0.0	400.0	0.0000	0.0000	14
15		15.31	36.96	0.0	400.0	0.0000	0.0000	15
16		19.13	46.19	0.0	400.0	0.0000	0.0000	16
17		0.71	0.71	0.0	150.0	0.0000	0.0000	17
18		1.41	1.41	0.0	200.0	0.0000	0.0000	18
19		2.12	2.12	0.0	200.0	0.0000	0.0000	19
20		2.83	2.83	0.0	200.0	0.0000	0.0000	20
21		3.54	3.54	0.0	200.0	0.0000	0.0000	21
22		4.24	4.24	0.0	200.0	0.0000	0.0000	22
23		4.95	4.95	0.0	200.0	0.0000	0.0000	23
24		5.66	5.66	0.0	200.0	0.0000	0.0000	24
25		6.36	6.36	0.0	200.0	0.0000	0.0000	25
26		7.07	7.07	0.0	300.0	0.0000	0.0000	26
27		10.61	10.61	0.0	400.0	0.0000	0.0000	27
28**		14.14	14.14	0.0	750.0	0.0000	0.0000	28
29**		17.68	17.68	0.0	1250.0	0.0000	0.0000	29
30**		21.21	21.21	0.0	600.0	0.0000	0.0000	30
31		28.28	28.28	0.0	400.0	0.0000	0.0000	31
32		35.36	35.36	0.0	400.0	0.0000	0.0000	32
33		0.92	0.38	0.0	150.0	0.0000	0.0000	33
34		1.85	0.77	0.0	200.0	0.0000	0.0000	34
35		2.77	1.15	0.0	200.0	0.0000	0.0000	35
36		3.70	1.53	0.0	200.0	0.0000	0.0000	36
37		4.62	1.91	0.0	200.0	0.0000	0.0000	37
38		5.54	2.30	0.0	200.0	0.0000	0.0000	38
39		6.47	2.68	0.0	200.0	0.0000	0.0000	39
40		7.39	3.06	0.0	200.0	0.0000	0.0000	40
41		8.31	3.44	0.0	200.0	0.0000	0.0000	41
42		9.24	3.83	0.0	300.0	0.0000	0.0000	42
43**		13.86	5.74	0.0	600.0	0.0000	0.0000	43
44**		18.48	7.65	0.0	1800.0	0.0000	0.0000	44
45**		23.10	9.57	0.0	3000.0	0.0000	0.0000	45
46**		27.72	11.48	0.0	3500.0	0.0000	0.0000	46
47**		36.96	15.31	0.0	4000.0	0.0000	0.0000	47
48**		46.19	19.13	0.0	2000.0	0.0000	0.0000	48
49		1.00	0.00	0.0	150.0	0.0000	0.0000	49

50	2.00	0.00	0.0	150.0	0.0000	0.0000	50
51	3.00	0.00	0.0	200.0	0.0000	0.0000	51
52	4.00	0.00	0.0	200.0	0.0000	0.0000	52
53	5.00	0.00	0.0	200.0	0.0000	0.0000	53
54	6.00	0.00	0.0	200.0	0.0000	0.0000	54
55	7.00	0.00	0.0	200.0	0.0000	0.0000	55
56	8.00	0.00	0.0	200.0	0.0000	0.0000	56
57	00	0.00	0.0	200.0	0.0000	0.0000	57
58	10.00	0.00	0.0	300.0	0.0000	0.0000	58
59**	15.00	0.00	0.0	750.0	0.0000	0.0000	59
60**	20.00	0.00	0.0	1600.0	0.0000	0.0000	60
61**	25.00	0.00	0.0	2000.0	0.0000	0.0000	61
62**	30.00	0.00	0.0	3000.0	0.0000	0.0000	62
63**	40.00	0.00	0.0	3600.0	0.0000	0.0000	63
64**	50.00	0.00	0.0	4000.0	0.0000	0.0000	64
65	0.92	-0.38	0.0	150.0	0.0000	0.0000	65
66	1.85	-0.77	0.0	160.0	0.0000	0.0000	66
67	2.77	-1.15	0.0	170.0	0.0000	0.0000	67
68	3.70	-1.53	0.0	180.0	0.0000	0.0000	68
69	4.62	-1.91	0.0	190.0	0.0000	0.0000	69
70	5.54	-2.30	0.0	200.0	0.0000	0.0000	70
71	6.47	-2.68	0.0	200.0	0.0000	0.0000	71
72	7.39	-3.06	0.0	200.0	0.0000	0.0000	72
73	8.31	-3.44	0.0	200.0	0.0000	0.0000	73
74	9.24	-3.83	0.0	200.0	0.0000	0.0000	74
75**	13.86	-5.74	0.0	600.0	0.0000	0.0000	75
76**	18.48	-7.65	0.0	1400.0	0.0000	0.0000	76
77**	23.10	-9.57	0.0	1600.0	0.0000	0.0000	77
78**	27.72	-11.48	0.0	3000.0	0.0000	0.0000	78
79**	36.96	-15.31	0.0	1000.0	0.0000	0.0000	79
80**	46.19	-19.13	0.0	600.0	0.0000	0.0000	80
81	0.71	-0.71	0.0	150.0	0.0000	0.0000	81
82	1.41	-1.41	0.0	150.0	0.0000	0.0000	82
83	2.12	-2.12	0.0	160.0	0.0000	0.0000	83
84	2.83	-2.83	0.0	170.0	0.0000	0.0000	84
85	3.54	-3.54	0.0	180.0	0.0000	0.0000	85
86	4.24	-4.24	0.0	190.0	0.0000	0.0000	86
87	4.95	-4.95	0.0	200.0	0.0000	0.0000	87
88	5.66	-5.66	0.0	200.0	0.0000	0.0000	88
89	6.36	-6.36	0.0	200.0	0.0000	0.0000	89
90	7.07	-7.07	0.0	200.0	0.0000	0.0000	90
91	10.61	-10.61	0.0	400.0	0.0000	0.0000	91
92**	14.14	-14.14	0.0	700.0	0.0000	0.0000	92
93**	17.68	-17.68	0.0	600.0	0.0000	0.0000	93
94	21.21	-21.21	0.0	300.0	0.0000	0.0000	94
95	28.28	-28.28	0.0	300.0	0.0000	0.0000	95
96 *	35.36	-35.36	0.0	20.0	0.0000	0.0000	96
97	0.38	-0.92	0.0	150.0	0.0000	0.0000	97
98	0.77	-1.85	0.0	150.0	0.0000	0.0000	98
99	1.15	-2.77	0.0	150.0	0.0000	0.0000	99
100	1.53	-3.70	0.0	150.0	0.0000	0.0000	100
101	1.91	-4.62	0.0	160.0	0.0000	0.0000	101
102	2.30	-5.54	0.0	170.0	0.0000	0.0000	102
103	2.68	-6.47	0.0	180.0	0.0000	0.0000	103
104	3.06	-7.39	0.0	190.0	0.0000	0.0000	104
105	3.44	-8.31	0.0	200.0	0.0000	0.0000	105
106	3.83	-9.24	0.0	200.0	0.0000	0.0000	106
107	5.74	-13.86	0.0	200.0	0.0000	0.0000	107
108	7.76	-18.48	0.0	200.0	0.0000	0.0000	108
109	9.57	-23.10	0.0	200.0	0.0000	0.0000	109
110	11.48	-27.72	0.0	150.0	0.0000	0.0000	110

21

111 *	15.31	-36.96	0.0	100.0	0.0000	0.0000	111
112 *	19.13	-46.19	0.0	10.0	0.0000	0.0000	112
113	0.00	-1.00	0.0	150.0	0.0000	0.0000	113
114	0.00	-2.00	0.0	150.0	0.0000	0.0000	114
115	0.00	-3.00	0.0	150.0	0.0000	0.0000	115
116	0.00	-4.00	0.0	150.0	0.0000	0.0000	116
117	0.00	-5.00	0.0	150.0	0.0000	0.0000	117
118	0.00	-6.00	0.0	160.0	0.0000	0.0000	118
119	0.00	-7.00	0.0	170.0	0.0000	0.0000	119
120	0.00	-8.00	0.0	180.0	0.0000	0.0000	120
121	0.00	-9.00	0.0	190.0	0.0000	0.0000	121
122	0.00	-10.00	0.0	200.0	0.0000	0.0000	122
123	0.00	-15.00	0.0	200.0	0.0000	0.0000	123
124	0.00	-20.00	0.0	200.0	0.0000	0.0000	124
125	0.00	-25.00	0.0	200.0	0.0000	0.0000	125
126	0.00	-30.00	0.0	200.0	0.0000	0.0000	126
127	0.00	-40.00	0.0	200.0	0.0000	0.0000	127
128	0.00	-50.00	0.0	200.0	0.0000	0.0000	128

Susitna DEIS Comments
Willow Site Coal Fired Plant
Worst Case Impacts for SO2 Using Worst Case Coal

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 84/ 1 : HOUR 4

RECEPTOR NO.	NAME	EAST COORD	NORTH COORD	RECEPTOR HT ABV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1		0.38	0.92	0.0	170.0	0.0000	0.0000	1
2		0.77	1.85	0.0	200.0	0.0000	0.0000	2
3		1.15	2.77	0.0	200.0	0.0000	0.0000	3
4		1.53	3.70	0.0	200.0	0.0000	0.0000	4
5		1.91	4.62	0.0	200.0	0.0000	0.0000	5
6		2.30	5.54	0.0	200.0	0.0000	0.0000	6
7		2.68	6.47	0.0	200.0	0.0000	0.0000	7
8		3.06	7.39	0.0	200.0	0.0000	0.0000	8
9		3.44	8.31	0.0	200.0	0.0000	0.0000	9
10		3.83	9.24	0.0	200.0	0.0000	0.0000	10
11		5.74	13.86	0.0	250.0	0.0000	0.0000	11
12		7.76	18.48	0.0	400.0	0.0000	0.0000	12
13		9.57	23.10	0.0	400.0	0.0000	0.0000	13
14		11.48	27.72	0.0	400.0	0.0000	0.0000	14
15		15.31	36.96	0.0	400.0	0.0000	0.0000	15
16		19.13	46.19	0.0	400.0	0.0000	0.0000	16
17		0.71	0.71	0.0	150.0	0.0000	0.0000	17
18		1.41	1.41	0.0	200.0	0.0000	0.0000	18
19		2.12	2.12	0.0	200.0	0.0000	0.0000	19
20		2.83	2.83	0.0	200.0	0.0000	0.0000	20
21		3.54	3.54	0.0	200.0	0.0000	0.0000	21
22		4.24	4.24	0.0	200.0	0.0000	0.0000	22
23		4.95	4.95	0.0	200.0	0.0000	0.0000	23
24		5.66	5.66	0.0	200.0	0.0000	0.0000	24
25		6.36	6.36	0.0	200.0	0.0000	0.0000	25
26		7.07	7.07	0.0	300.0	0.0000	0.0000	26
27		10.61	10.61	0.0	400.0	0.0000	0.0000	27
28**		14.14	14.14	0.0	750.0	0.0000	0.0000	28
29**		17.68	17.68	0.0	1250.0	0.0000	0.0000	29
30**		21.21	21.21	0.0	600.0	0.0000	0.0000	30
31		28.28	28.28	0.0	400.0	0.0000	0.0000	31
32		35.36	35.36	0.0	400.0	0.0000	0.0000	32
33		0.92	0.38	0.0	150.0	0.0000	0.0000	33
34		1.85	0.77	0.0	200.0	0.0000	0.0000	34
35		2.77	1.15	0.0	200.0	0.0000	0.0000	35
36		3.70	1.53	0.0	200.0	0.0000	0.0000	36
37		4.62	1.91	0.0	200.0	0.0000	0.0000	37
38		5.54	2.30	0.0	200.0	0.0000	0.0000	38
39		6.47	2.68	0.0	200.0	0.0000	0.0000	39
40		7.39	3.06	0.0	200.0	0.0000	0.0000	40
41		8.31	3.44	0.0	200.0	0.0000	0.0000	41
42		9.24	3.83	0.0	300.0	0.0000	0.0000	42
43**		13.86	5.74	0.0	600.0	0.0000	0.0000	43
44**		18.48	7.65	0.0	1800.0	0.0000	0.0000	44
45**		23.10	9.57	0.0	3000.0	0.0000	0.0000	45
46**		27.72	11.48	0.0	3500.0	0.0000	0.0000	46
47**		36.96	15.31	0.0	4000.0	0.0000	0.0000	47
48**		46.19	19.13	0.0	2000.0	0.0000	0.0000	48
49		1.00	0.00	0.0	150.0	0.0000	0.0000	49

14

50	2.00	0.00	0.0	150.0	0.0000	0.0000	50
51	3.00	0.00	0.0	200.0	0.0000	0.0000	51
52	4.00	0.00	0.0	200.0	0.0000	0.0000	52
53	5.00	0.00	0.0	200.0	0.0000	0.0000	53
54	6.00	0.00	0.0	200.0	0.0000	0.0000	54
55	7.00	0.00	0.0	200.0	0.0000	0.0000	55
56	8.00	0.00	0.0	200.0	0.0000	0.0000	56
57	9.00	0.00	0.0	200.0	0.0000	0.0000	57
58	10.00	0.00	0.0	300.0	0.0000	0.0000	58
59**	15.00	0.00	0.0	750.0	0.0000	0.0000	59
60**	20.00	0.00	0.0	1600.0	0.0000	0.0000	60
61**	25.00	0.00	0.0	2000.0	0.0000	0.0000	61
62**	30.00	0.00	0.0	3000.0	0.0000	0.0000	62
63**	40.00	0.00	0.0	3600.0	0.0000	0.0000	63
64**	50.00	0.00	0.0	4000.0	0.0000	0.0000	64
65	0.92	-0.38	0.0	150.0	0.0000	0.0000	65
66	1.85	-0.77	0.0	160.0	0.0000	0.0000	66
67	2.77	-1.15	0.0	170.0	0.0000	0.0000	67
68	3.70	-1.53	0.0	180.0	0.0000	0.0000	68
69	4.62	-1.91	0.0	190.0	0.0000	0.0000	69
70	5.54	-2.30	0.0	200.0	0.0000	0.0000	70
71	6.47	-2.68	0.0	200.0	0.0000	0.0000	71
72	7.39	-3.06	0.0	200.0	0.0000	0.0000	72
73	8.31	-3.44	0.0	200.0	0.0000	0.0000	73
74	9.24	-3.83	0.0	200.0	0.0000	0.0000	74
75**	13.86	-5.74	0.0	600.0	0.0000	0.0000	75
76**	18.48	-7.65	0.0	1400.0	0.0000	0.0000	76
77**	23.10	-9.57	0.0	1600.0	0.0000	0.0000	77
78**	27.72	-11.48	0.0	3000.0	0.0000	0.0000	78
79**	36.96	-15.31	0.0	1000.0	0.0000	0.0000	79
80**	46.19	-19.13	0.0	600.0	0.0000	0.0000	80
81	0.71	-0.71	0.0	150.0	0.0000	0.0000	81
82	1.41	-1.41	0.0	150.0	0.0000	0.0000	82
83	2.12	-2.12	0.0	160.0	0.0000	0.0000	83
84	2.83	-2.83	0.0	170.0	0.0000	0.0000	84
85	3.54	-3.54	0.0	180.0	0.0000	0.0000	85
86	4.24	-4.24	0.0	190.0	0.0000	0.0000	86
87	4.95	-4.95	0.0	200.0	0.0000	0.0000	87
88	5.66	-5.66	0.0	200.0	0.0000	0.0000	88
89	6.36	-6.36	0.0	200.0	0.0000	0.0000	89
90	7.07	-7.07	0.0	200.0	0.0000	0.0000	90
91	10.61	-10.61	0.0	400.0	0.0000	0.0000	91
92**	14.14	-14.14	0.0	700.0	0.0000	0.0000	92
93**	17.68	-17.68	0.0	600.0	0.0000	0.0000	93
94	21.21	-21.21	0.0	300.0	0.0000	0.0000	94
95	28.28	-28.28	0.0	300.0	0.0000	0.0000	95
96 *	35.36	-35.36	0.0	20.0	0.0000	0.0000	96
97	0.38	-0.92	0.0	150.0	0.0000	0.0000	97
98	0.77	-1.85	0.0	150.0	0.0000	0.0000	98
99	1.15	-2.77	0.0	150.0	0.0000	0.0000	99
100	1.53	-3.70	0.0	150.0	0.0000	0.0000	100
101	1.91	-4.62	0.0	160.0	0.0000	0.0000	101
102	2.30	-5.54	0.0	170.0	0.0000	0.0000	102
103	2.68	-6.47	0.0	180.0	0.0000	0.0000	103
104	3.06	-7.39	0.0	190.0	0.0000	0.0000	104
105	3.44	-8.31	0.0	200.0	0.0000	0.0000	105
106	3.83	-9.24	0.0	200.0	0.0000	0.0000	106
107	5.74	-13.86	0.0	200.0	0.0000	0.0000	107
108	7.76	-18.48	0.0	200.0	0.0000	0.0000	108
109	9.57	-23.10	0.0	200.0	0.0000	0.0000	109
110	11.48	-27.72	0.0	150.0	0.0000	0.0000	110

111 *	15.31	-36.96	0.0	100.0	0.0000	0.0000	111
112 *	19.13	-46.19	0.0	10.0	0.0000	0.0000	112
113	0.00	-1.00	0.0	150.0	0.0000	0.0000	113
114	0.00	-2.00	0.0	150.0	0.0000	0.0000	114
115	0.00	-3.00	0.0	150.0	0.0000	0.0000	115
116	0.00	-4.00	0.0	150.0	0.0000	0.0000	116
117	0.00	-5.00	0.0	150.0	0.0000	0.0000	117
118	0.00	-6.00	0.0	160.0	0.0000	0.0000	118
119	0.00	-7.00	0.0	170.0	0.0000	0.0000	119
120	0.00	-8.00	0.0	180.0	0.0000	0.0000	120
121	0.00	-9.00	0.0	190.0	0.0000	0.0000	121
122	0.00	-10.00	0.0	200.0	0.0000	0.0000	122
123	0.00	-15.00	0.0	200.0	0.0000	0.0000	123
124	0.00	-20.00	0.0	200.0	0.0000	0.0000	124
125	0.00	-25.00	0.0	200.0	0.0000	0.0000	125
126	0.00	-30.00	0.0	200.0	0.0000	0.0000	126
127	0.00	-40.00	0.0	200.0	0.0000	0.0000	127
128	0.00	-50.00	0.0	200.0	0.0000	0.0000	128

Susitna DEIS Comments
Willow Site Coal Fired Plant
Worst Case Impacts for SO2 Using Worst Case Coal

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 84/ 1 : HOUR 5

RECEPTOR NO.	NAME	EAST COORD	NORTH COORD	RECEPTOR HT ABV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1		0.38	0.92	0.0	170.0	0.0000	0.0000	1
2		0.77	1.85	0.0	200.0	0.0000	0.0000	2
3		1.15	2.77	0.0	200.0	0.0000	0.0000	3
4		1.53	3.70	0.0	200.0	0.0000	0.0000	4
5		1.91	4.62	0.0	200.0	0.0000	0.0000	5
6		2.30	5.54	0.0	200.0	0.0000	0.0000	6
7		2.68	6.47	0.0	200.0	0.0000	0.0000	7
8		3.06	7.39	0.0	200.0	0.0000	0.0000	8
9		3.44	8.31	0.0	200.0	0.0000	0.0000	9
10		3.83	9.24	0.0	200.0	0.0000	0.0000	10
11		5.74	13.86	0.0	250.0	0.0000	0.0000	11
12		7.76	18.48	0.0	400.0	0.0000	0.0000	12
13		9.57	23.10	0.0	400.0	0.0000	0.0000	13
14		11.48	27.72	0.0	400.0	0.0000	0.0000	14
15		15.31	36.96	0.0	400.0	0.0000	0.0000	15
16		19.13	46.19	0.0	400.0	0.0000	0.0000	16
17		0.71	0.71	0.0	150.0	0.0000	0.0000	17
18		1.41	1.41	0.0	200.0	0.0000	0.0000	18
19		2.12	2.12	0.0	200.0	0.0000	0.0000	19
20		2.83	2.83	0.0	200.0	0.0000	0.0000	20
21		3.54	3.54	0.0	200.0	0.0000	0.0000	21
22		4.24	4.24	0.0	200.0	0.0000	0.0000	22
23		4.95	4.95	0.0	200.0	0.0000	0.0000	23
24		5.66	5.66	0.0	200.0	0.0000	0.0000	24
25		6.36	6.36	0.0	200.0	0.0000	0.0000	25
26		7.07	7.07	0.0	300.0	0.0000	0.0000	26
27		10.61	10.61	0.0	400.0	0.0000	0.0000	27
28**		14.14	14.14	0.0	750.0	0.0000	0.0000	28
29**		17.68	17.68	0.0	1250.0	0.0000	0.0000	29
30**		21.21	21.21	0.0	600.0	0.0000	0.0000	30
31		28.28	28.28	0.0	400.0	0.0000	0.0000	31
32		35.36	35.36	0.0	400.0	0.0000	0.0000	32
33		0.92	0.38	0.0	150.0	0.0000	0.0000	33
34		1.85	0.77	0.0	200.0	0.0000	0.0000	34
35		2.77	1.15	0.0	200.0	0.0000	0.0000	35
36		3.70	1.53	0.0	200.0	0.0000	0.0000	36
37		4.62	1.91	0.0	200.0	0.0000	0.0000	37
38		5.54	2.30	0.0	200.0	0.0000	0.0000	38
39		6.47	2.68	0.0	200.0	0.0000	0.0000	39
40		7.39	3.06	0.0	200.0	0.0000	0.0000	40
41		8.31	3.44	0.0	200.0	0.0000	0.0000	41
42		9.24	3.83	0.0	300.0	0.0000	0.0000	42
43**		13.86	5.74	0.0	600.0	0.0000	0.0000	43
44**		18.48	7.65	0.0	1800.0	0.0000	0.0000	44
45**		23.10	9.57	0.0	3000.0	0.0000	0.0000	45
46**		27.72	11.48	0.0	3500.0	0.0000	0.0000	46
47**		36.96	15.31	0.0	4000.0	0.0000	0.0000	47
48**		46.19	19.13	0.0	2000.0	0.0000	0.0000	48
49		1.00	0.00	0.0	150.0	0.0000	0.0000	49

50	2.00	0.00	0.0	150.0	0.0000	0.0000	50
51	3.00	0.00	0.0	200.0	0.0000	0.0000	51
52	4.00	0.00	0.0	200.0	0.0000	0.0000	52
53	5.00	0.00	0.0	200.0	0.0000	0.0000	53
54	6.00	0.00	0.0	200.0	0.0000	0.0000	54
55	7.00	0.00	0.0	200.0	0.0000	0.0000	55
56	8.00	0.00	0.0	200.0	0.0000	0.0000	56
57	9.00	0.00	0.0	200.0	0.0000	0.0000	57
58	10.00	0.00	0.0	300.0	0.0000	0.0000	58
59**	15.00	0.00	0.0	750.0	0.0000	0.0000	59
60**	20.00	0.00	0.0	1600.0	0.0000	0.0000	60
61**	25.00	0.00	0.0	2000.0	0.0000	0.0000	61
62**	30.00	0.00	0.0	3000.0	0.0000	0.0000	62
63**	40.00	0.00	0.0	3600.0	0.0000	0.0000	63
64**	50.00	0.00	0.0	4000.0	0.0000	0.0000	64
65	0.92	-0.38	0.0	150.0	0.0000	0.0000	65
66	1.85	-0.77	0.0	160.0	0.0000	0.0000	66
67	2.77	-1.15	0.0	170.0	0.0000	0.0000	67
68	3.70	-1.53	0.0	180.0	0.0000	0.0000	68
69	4.62	-1.91	0.0	190.0	0.0000	0.0000	69
70	5.54	-2.30	0.0	200.0	0.0000	0.0000	70
71	6.47	-2.68	0.0	200.0	0.0000	0.0000	71
72	7.39	-3.06	0.0	200.0	0.0000	0.0000	72
73	8.31	-3.44	0.0	200.0	0.0000	0.0000	73
74	9.24	-3.83	0.0	200.0	0.0000	0.0000	74
75**	13.86	-5.74	0.0	600.0	0.0000	0.0000	75
76**	18.48	-7.65	0.0	1400.0	0.0000	0.0000	76
77**	23.10	-9.57	0.0	1600.0	0.0000	0.0000	77
78**	27.72	-11.48	0.0	3000.0	0.0000	0.0000	78
79**	36.96	-15.31	0.0	1000.0	0.0000	0.0000	79
80**	46.19	-19.13	0.0	600.0	0.0000	0.0000	80
81	0.71	-0.71	0.0	150.0	0.0000	0.0000	81
82	1.41	-1.41	0.0	150.0	0.0000	0.0000	82
83	2.12	-2.12	0.0	160.0	0.0000	0.0000	83
84	2.83	-2.83	0.0	170.0	0.0000	0.0000	84
85	3.54	-3.54	0.0	180.0	0.0000	0.0000	85
86	4.24	-4.24	0.0	190.0	0.0000	0.0000	86
87	4.95	-4.95	0.0	200.0	0.0000	0.0000	87
88	5.66	-5.66	0.0	200.0	0.0000	0.0000	88
89	6.36	-6.36	0.0	200.0	0.0000	0.0000	89
90	7.07	-7.07	0.0	200.0	0.0000	0.0000	90
91	10.61	-10.61	0.0	400.0	0.0000	0.0000	91
92**	14.14	-14.14	0.0	700.0	0.0000	0.0000	92
93**	17.68	-17.68	0.0	600.0	0.0000	0.0000	93
94	21.21	-21.21	0.0	300.0	0.0000	0.0000	94
95	28.28	-28.28	0.0	300.0	0.0000	0.0000	95
96 *	35.36	-35.36	0.0	20.0	0.0000	0.0000	96
97	0.38	-0.92	0.0	150.0	0.0000	0.0000	97
98	0.77	-1.85	0.0	150.0	0.0000	0.0000	98
99	1.15	-2.77	0.0	150.0	0.0000	0.0000	99
100	1.53	-3.70	0.0	150.0	0.0000	0.0000	100
101	1.91	-4.62	0.0	160.0	0.0000	0.0000	101
102	2.30	-5.54	0.0	170.0	0.0000	0.0000	102
103	2.68	-6.47	0.0	180.0	0.0000	0.0000	103
104	3.06	-7.39	0.0	190.0	0.0000	0.0000	104
105	3.44	-8.31	0.0	200.0	0.0000	0.0000	105
106	3.83	-9.24	0.0	200.0	0.0000	0.0000	106
107	5.74	-13.86	0.0	200.0	0.0000	0.0000	107
108	7.76	-18.48	0.0	200.0	0.0000	0.0000	108
109	9.57	-23.10	0.0	200.0	0.0000	0.0000	109
110	11.48	-27.72	0.0	150.0	0.0000	0.0000	110

B1

111 *	15.31	-36.96	0.0	100.0	0.0000	0.0000	111
112 *	19.13	-46.19	0.0	10.0	0.0000	0.0000	112
113	0.00	-1.00	0.0	150.0	0.0000	0.0000	113
114	0.00	-2.00	0.0	150.0	0.0000	0.0000	114
115	0.00	-3.00	0.0	150.0	0.0000	0.0000	115
116	0.00	-4.00	0.0	150.0	0.0000	0.0000	116
117	0.00	-5.00	0.0	150.0	0.0000	0.0000	117
118	0.00	-6.00	0.0	160.0	0.0000	0.0000	118
119	0.00	-7.00	0.0	170.0	0.0000	0.0000	119
120	0.00	-8.00	0.0	180.0	0.0000	0.0000	120
121	0.00	-9.00	0.0	190.0	0.0000	0.0000	121
122	0.00	-10.00	0.0	200.0	0.0000	0.0000	122
123	0.00	-15.00	0.0	200.0	0.0000	0.0000	123
124	0.00	-20.00	0.0	200.0	0.0000	0.0000	124
125	0.00	-25.00	0.0	200.0	0.0000	0.0000	125
126	0.00	-30.00	0.0	200.0	0.0000	0.0000	126
127	0.00	-40.00	0.0	200.0	0.0000	0.0000	127
128	0.00	-50.00	0.0	200.0	0.0000	0.0000	128

Susitna DEIS Comments
Willow Site Coal Fired Plant
Worst Case Impacts for SO2 Using Worst Case Coal

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 84/ 1 : HOUR 6

RECEPTOR NO.	NAME	EAST COORD	NORTH COORD	RECEPTOR HT ABV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1		0.38	0.92	0.0	170.0	0.0000	0.0000	1
2		0.77	1.85	0.0	200.0	0.0000	0.0000	2
3		1.15	2.77	0.0	200.0	0.0000	0.0000	3
4		1.53	3.70	0.0	200.0	0.0000	0.0000	4
5		1.91	4.62	0.0	200.0	0.0000	0.0000	5
6		2.30	5.54	0.0	200.0	0.0000	0.0000	6
7		2.68	6.47	0.0	200.0	0.0000	0.0000	7
8		3.06	7.39	0.0	200.0	0.0000	0.0000	8
9		3.44	8.31	0.0	200.0	0.0000	0.0000	9
10		3.83	9.24	0.0	200.0	0.0000	0.0000	10
11		5.74	13.86	0.0	250.0	0.0000	0.0000	11
12		7.76	18.48	0.0	400.0	0.0000	0.0000	12
13		9.57	23.10	0.0	400.0	0.0000	0.0000	13
14		11.48	27.72	0.0	400.0	0.0000	0.0000	14
15		15.31	36.96	0.0	400.0	0.0000	0.0000	15
16		19.13	46.19	0.0	400.0	0.0000	0.0000	16
17		0.71	0.71	0.0	150.0	0.0000	0.0000	17
18		1.41	1.41	0.0	200.0	0.0000	0.0000	18
19		2.12	2.12	0.0	200.0	0.0000	0.0000	19
20		2.83	2.83	0.0	200.0	0.0000	0.0000	20
21		3.54	3.54	0.0	200.0	0.0000	0.0000	21
22		4.24	4.24	0.0	200.0	0.0000	0.0000	22
23		4.95	4.95	0.0	200.0	0.0000	0.0000	23
24		5.66	5.66	0.0	200.0	0.0000	0.0000	24
25		6.36	6.36	0.0	200.0	0.0000	0.0000	25
26		7.07	7.07	0.0	300.0	0.0000	0.0000	26
27		10.61	10.61	0.0	400.0	0.0000	0.0000	27
28**		14.14	14.14	0.0	750.0	0.0000	0.0000	28
29**		17.68	17.68	0.0	1250.0	0.0000	0.0000	29
30**		21.21	21.21	0.0	600.0	0.0000	0.0000	30
31		28.28	28.28	0.0	400.0	0.0000	0.0000	31
32		35.36	35.36	0.0	400.0	0.0000	0.0000	32
33		0.92	0.38	0.0	150.0	0.0000	0.0000	33
34		1.85	0.77	0.0	200.0	0.0000	0.0000	34
35		2.77	1.15	0.0	200.0	0.0000	0.0000	35
36		3.70	1.53	0.0	200.0	0.0000	0.0000	36
37		4.62	1.91	0.0	200.0	0.0000	0.0000	37
38		5.54	2.30	0.0	200.0	0.0000	0.0000	38
39		6.47	2.68	0.0	200.0	0.0000	0.0000	39
40		7.39	3.06	0.0	200.0	0.0000	0.0000	40
41		8.31	3.44	0.0	200.0	0.0000	0.0000	41
42		9.24	3.83	0.0	300.0	0.0000	0.0000	42
43**		13.86	5.74	0.0	600.0	0.0000	0.0000	43
44**		18.48	7.65	0.0	1800.0	0.0000	0.0000	44
45**		23.10	9.57	0.0	3000.0	0.0000	0.0000	45
46**		27.72	11.48	0.0	3500.0	0.0000	0.0000	46
47**		36.96	15.31	0.0	4000.0	0.0000	0.0000	47
48**		46.19	19.13	0.0	2000.0	0.0000	0.0000	48
49		1.00	0.00	0.0	150.0	0.0000	0.0000	49

50	2.00	0.00	0.0	150.0	0.0000	0.0000	50
51	3.00	0.00	0.0	200.0	0.0000	0.0000	51
52	4.00	0.00	0.0	200.0	0.0000	0.0000	52
53	5.00	0.00	0.0	200.0	0.0000	0.0000	53
54	6.00	0.00	0.0	200.0	0.0000	0.0000	54
55	7.00	0.00	0.0	200.0	0.0000	0.0000	55
56	8.00	0.00	0.0	200.0	0.0000	0.0000	56
57	9.00	0.00	0.0	200.0	0.0000	0.0000	57
58	10.00	0.00	0.0	300.0	0.0000	0.0000	58
59**	15.00	0.00	0.0	750.0	0.0000	0.0000	59
60**	20.00	0.00	0.0	1600.0	0.0000	0.0000	60
61**	25.00	0.00	0.0	2000.0	0.0000	0.0000	61
62**	30.00	0.00	0.0	3000.0	0.0000	0.0000	62
63**	40.00	0.00	0.0	3600.0	0.0000	0.0000	63
64**	50.00	0.00	0.0	4000.0	0.0000	0.0000	64
65	0.92	-0.38	0.0	150.0	0.0000	0.0000	65
66	1.85	-0.77	0.0	160.0	0.0000	0.0000	66
67	2.77	-1.15	0.0	170.0	0.0000	0.0000	67
68	3.70	-1.53	0.0	180.0	0.0000	0.0000	68
69	4.62	-1.91	0.0	190.0	0.0000	0.0000	69
70	5.54	-2.30	0.0	200.0	0.0000	0.0000	70
71	6.47	-2.68	0.0	200.0	0.0000	0.0000	71
72	7.39	-3.06	0.0	200.0	0.0000	0.0000	72
73	8.31	-3.44	0.0	200.0	0.0000	0.0000	73
74	9.24	-3.83	0.0	200.0	0.0000	0.0000	74
75**	13.86	-5.74	0.0	600.0	0.0000	0.0000	75
76**	18.48	-7.65	0.0	1400.0	0.0000	0.0000	76
77**	23.10	-9.57	0.0	1600.0	0.0000	0.0000	77
78**	27.72	-11.48	0.0	3000.0	0.0000	0.0000	78
79**	36.96	-15.31	0.0	1000.0	0.0000	0.0000	79
80**	45.19	-19.13	0.0	600.0	0.0000	0.0000	80
81	0.71	-0.71	0.0	150.0	0.0000	0.0000	81
82	1.41	-1.41	0.0	150.0	0.0000	0.0000	82
83	2.12	-2.12	0.0	160.0	0.0000	0.0000	83
84	2.83	-2.83	0.0	170.0	0.0000	0.0000	84
85	3.54	-3.54	0.0	180.0	0.0000	0.0000	85
86	4.24	-4.24	0.0	190.0	0.0000	0.0000	86
87	4.95	-4.95	0.0	200.0	0.0000	0.0000	87
88	5.66	-5.66	0.0	200.0	0.0000	0.0000	88
89	6.36	-6.36	0.0	200.0	0.0000	0.0000	89
90	7.07	-7.07	0.0	200.0	0.0000	0.0000	90
91	10.61	-10.61	0.0	400.0	0.0000	0.0000	91
92**	14.14	-14.14	0.0	700.0	0.0000	0.0000	92
93**	17.68	-17.68	0.0	600.0	0.0000	0.0000	93
94	21.21	-21.21	0.0	300.0	0.0000	0.0000	94
95	28.28	-28.28	0.0	300.0	0.0000	0.0000	95
96 *	35.36	-35.36	0.0	20.0	0.0000	0.0000	96
97	0.38	-0.92	0.0	150.0	0.0000	0.0000	97
98	0.77	-1.85	0.0	150.0	0.0000	0.0000	98
99	1.15	-2.77	0.0	150.0	0.0000	0.0000	99
100	1.53	-3.70	0.0	150.0	0.0000	0.0000	100
101	1.91	-4.62	0.0	160.0	0.0000	0.0000	101
102	2.30	-5.54	0.0	170.0	0.0000	0.0000	102
103	2.68	-6.47	0.0	180.0	0.0000	0.0000	103
104	3.06	-7.39	0.0	190.0	0.0000	0.0000	104
105	3.44	-3.31	0.0	200.0	0.0000	0.0000	105
106	3.83	-9.24	0.0	200.0	0.0000	0.0000	106
107	5.74	-13.36	0.0	200.0	0.0000	0.0000	107
108	7.76	-18.48	0.0	200.0	0.0000	0.0000	108
109	9.57	-23.10	0.0	200.0	0.0000	0.0000	109
110	11.48	-27.72	0.0	150.0	0.0000	0.0000	110

12

111 *	15.31	-36.96	0.0	100.0	0.0000	0.0000	111
112 *	19.13	-46.19	0.0	10.0	0.0000	0.0000	112
113	0.00	-1.00	0.0	150.0	0.0000	0.0000	113
114	0.00	-2.00	0.0	150.0	0.0000	0.0000	114
115	0.00	-3.00	0.0	150.0	0.0000	0.0000	115
116	0.00	-4.00	0.0	150.0	0.0000	0.0000	116
117	0.00	-5.00	0.0	150.0	0.0000	0.0000	117
118	0.00	-6.00	0.0	160.0	0.0000	0.0000	118
119	0.00	-7.00	0.0	170.0	0.0000	0.0000	119
120	0.00	-8.00	0.0	180.0	0.0000	0.0000	120
121	0.00	-9.00	0.0	190.0	0.0000	0.0000	121
122	0.00	-10.00	0.0	200.0	0.0000	0.0000	122
123	0.00	-15.00	0.0	200.0	0.0000	0.0000	123
124	0.00	-20.00	0.0	200.0	0.0000	0.0000	124
125	0.00	-25.00	0.0	200.0	0.0000	0.0000	125
126	0.00	-30.00	0.0	200.0	0.0000	0.0000	126
127	0.00	-40.00	0.0	200.0	0.0000	0.0000	127
128	0.00	-50.00	0.0	200.0	0.0000	0.0000	128

22

Susitna DEIS Comments
Willow Site Coal Fired Plant
Worst Case Impacts for SO2 Using Worst Case Coal

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 84/ 1 : HOUR 7

RECEPTOR NO.	NAME	EAST COORD	NORTH COORD	RECEPTOR HT ABV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1		0.38	0.92	0.0	170.0	0.0000	0.0000	1
2		0.77	1.85	0.0	200.0	0.0000	0.0000	2
3		1.15	2.77	0.0	200.0	0.0000	0.0000	3
4		1.53	3.70	0.0	200.0	0.0000	0.0000	4
5		1.91	4.62	0.0	200.0	0.0000	0.0000	5
6		2.30	5.54	0.0	200.0	0.0000	0.0000	6
7		2.68	6.47	0.0	200.0	0.0000	0.0000	7
8		3.06	7.39	0.0	200.0	0.0000	0.0000	8
9		3.44	8.31	0.0	200.0	0.0000	0.0000	9
10		3.83	9.24	0.0	200.0	0.0000	0.0000	10
11		5.74	13.86	0.0	250.0	0.0000	0.0000	11
12		7.76	18.48	0.0	400.0	0.0000	0.0000	12
13		9.57	23.10	0.0	400.0	0.0000	0.0000	13
14		11.48	27.72	0.0	400.0	0.0000	0.0000	14
15		15.31	36.96	0.0	400.0	0.0000	0.0000	15
16		19.13	46.19	0.0	400.0	0.0000	0.0000	16
17		0.71	0.71	0.0	150.0	0.0000	0.0000	17
18		1.41	1.41	0.0	200.0	0.0000	0.0000	18
19		2.12	2.12	0.0	200.0	0.0000	0.0000	19
20		2.83	2.83	0.0	200.0	0.0000	0.0000	20
21		3.54	3.54	0.0	200.0	0.0000	0.0000	21
22		4.24	4.24	0.0	200.0	0.0000	0.0000	22
23		4.95	4.95	0.0	200.0	0.0000	0.0000	23
24		5.66	5.66	0.0	200.0	0.0000	0.0000	24
25		6.36	6.36	0.0	200.0	0.0000	0.0000	25
26		7.07	7.07	0.0	300.0	0.0000	0.0000	26
27		10.61	10.61	0.0	400.0	0.0000	0.0000	27
28**		14.14	14.14	0.0	750.0	0.0000	0.0000	28
29**		17.68	17.68	0.0	1250.0	0.0000	0.0000	29
30**		21.21	21.21	0.0	600.0	0.0000	0.0000	30
31		28.28	28.28	0.0	400.0	0.0000	0.0000	31
32		35.36	35.36	0.0	400.0	0.0000	0.0000	32
33		0.92	0.38	0.0	150.0	0.0000	0.0000	33
34		1.85	0.77	0.0	200.0	0.0000	0.0000	34
35		2.77	1.15	0.0	200.0	0.0000	0.0000	35
36		3.70	1.53	0.0	200.0	0.0000	0.0000	36
37		4.62	1.91	0.0	200.0	0.0000	0.0000	37
38		5.54	2.30	0.0	200.0	0.0000	0.0000	38
39		6.47	2.68	0.0	200.0	0.0000	0.0000	39
40		7.39	3.06	0.0	200.0	0.0000	0.0000	40
41		8.31	3.44	0.0	200.0	0.0000	0.0000	41
42		9.24	3.83	0.0	300.0	0.0000	0.0000	42
43**		13.86	5.74	0.0	600.0	0.0000	0.0000	43
44**		18.48	7.65	0.0	1800.0	0.0000	0.0000	44
45**		23 10	9.57	0.0	3000.0	0.0000	0.0000	45
46**		27.72	11.48	0.0	3500.0	0.0000	0.0000	46
47**		36.96	15.31	0.0	4000.0	0.0000	0.0000	47
48**		46.19	19.13	0.0	2000.0	0.0000	0.0000	48
49		1.00	0.00	0.0	150.0	0.0000	0.0000	49

23

50	2.00	0.00	0.0	150.0	0.0000	0.0000	50
51	3.00	0.00	0.0	200.0	0.0000	0.0000	51
52	4.00	0.00	0.0	200.0	0.0000	0.0000	52
53	5.00	0.00	0.0	200.0	0.0000	0.0000	53
54	6.00	0.00	0.0	200.0	0.0000	0.0000	54
55	7.00	0.00	0.0	200.0	0.0000	0.0000	55
56	8.00	0.00	0.0	200.0	0.0000	0.0000	56
57	9.00	0.00	0.0	200.0	0.0000	0.0000	57
58	10.00	0.00	0.0	300.0	0.0000	0.0000	58
59**	15.00	0.00	0.0	750.0	0.0000	0.0000	59
60**	20.00	0.00	0.0	1600.0	0.0000	0.0000	60
61**	25.00	0.00	0.0	2000.0	0.0000	0.0000	61
62**	30.00	0.00	0.0	3000.0	0.0000	0.0000	62
63**	40.00	0.00	0.0	3600.0	0.0000	0.0000	63
64**	50.00	0.00	0.0	4000.0	0.0000	0.0000	64
65	0.92	-0.38	0.0	150.0	0.0000	0.0000	65
66	1.85	-0.77	0.0	160.0	0.0000	0.0000	66
67	2.77	-1.15	0.0	170.0	0.0000	0.0000	67
68	3.70	-1.53	0.0	180.0	0.0000	0.0000	68
69	4.62	-1.91	0.0	190.0	0.0000	0.0000	69
70	5.54	-2.30	0.0	200.0	0.0000	0.0000	70
71	6.47	-2.68	0.0	200.0	0.0000	0.0000	71
72	7.39	-3.06	0.0	200.0	0.0000	0.0000	72
73	8.31	-3.44	0.0	200.0	0.0000	0.0000	73
74	9.24	-3.83	0.0	200.0	0.0000	0.0000	74
75**	13.86	-5.74	0.0	600.0	0.0000	0.0000	75
76**	18.48	-7.65	0.0	1400.0	0.0000	0.0000	76
77**	23.10	-9.57	0.0	1600.0	0.0000	0.0000	77
78**	27.72	-11.48	0.0	3000.0	0.0000	0.0000	78
79**	36.96	-15.31	0.0	1000.0	0.0000	0.0000	79
80**	46.19	-19.13	0.0	600.0	0.0000	0.0000	80
81	0.71	-0.71	0.0	150.0	0.0000	0.0000	81
82	1.41	-1.41	0.0	150.0	0.0000	0.0000	82
83	2.12	-2.12	0.0	160.0	0.0000	0.0000	83
84	2.83	-2.83	0.0	170.0	0.0000	0.0000	84
85	3.54	-3.54	0.0	180.0	0.0000	0.0000	85
86	4.24	-4.24	0.0	190.0	0.0000	0.0000	86
87	4.95	-4.95	0.0	200.0	0.0000	0.0000	87
88	5.66	-5.66	0.0	200.0	0.0000	0.0000	88
89	6.36	-6.36	0.0	200.0	0.0000	0.0000	89
90	7.07	-7.07	0.0	200.0	0.0000	0.0000	90
91	10.61	-10.61	0.0	400.0	0.0000	0.0000	91
92**	14.14	-14.14	0.0	700.0	0.0000	0.0000	92
93**	17.68	-17.68	0.0	600.0	0.0000	0.0000	93
94	21.21	-21.21	0.0	300.0	0.0000	0.0000	94
95	28.28	-28.28	0.0	300.0	0.0000	0.0000	95
96 *	35.36	-35.36	0.0	20.0	0.0000	0.0000	96
97	0.38	-0.92	0.0	150.0	0.0000	0.0000	97
98	0.77	-1.85	0.0	150.0	0.0000	0.0000	98
99	1.15	-2.77	0.0	150.0	0.0000	0.0000	99
100	1.53	-3.70	0.0	150.0	0.0000	0.0000	100
101	1.91	-4.62	0.0	160.0	0.0000	0.0000	101
102	2.30	-5.54	0.0	170.0	0.0000	0.0000	102
103	2.68	-6.47	0.0	180.0	0.0000	0.0000	103
104	3.06	-7.39	0.0	190.0	0.0000	0.0000	104
105	3.44	-8.31	0.0	200.0	0.0000	0.0000	105
106	3.83	-9.24	0.0	200.0	0.0000	0.0000	106
107	5.74	-13.86	0.0	200.0	0.0000	0.0000	107
108	7.76	-18.48	0.0	200.0	0.0000	0.0000	108
109	9.57	-23.10	0.0	200.0	0.0000	0.0000	109
110	11.48	-27.72	0.0	150.0	0.0000	0.0000	110

111 *	15.31	-36.96	0.0	100.0	0.0000	0.0000	111
112 *	19.13	-46.19	0.0	10.0	0.0000	0.0000	112
113	0.00	-1.00	0.0	150.0	0.0000	0.0000	113
114	0.00	-2.00	0.0	150.0	0.0000	0.0000	114
115	0.00	-3.00	0.0	150.0	0.0000	0.0000	115
116	0.00	-4.00	0.0	150.0	0.0000	0.0000	116
117	0.00	-5.00	0.0	150.0	0.0000	0.0000	117
118	0.00	-6.00	0.0	160.0	0.0000	0.0000	118
119	0.00	-7.00	0.0	170.0	0.0000	0.0000	119
120	0.00	-8.00	0.0	180.0	0.0000	0.0000	120
121	0.00	-9.00	0.0	190.0	0.0000	0.0000	121
122	0.00	-10.00	0.0	200.0	0.0000	0.0000	122
123	0.00	-15.00	0.0	200.0	0.0000	0.0000	123
124	0.00	-20.00	0.0	200.0	0.0000	0.0000	124
125	0.00	-25.00	0.0	200.0	0.0000	0.0000	125
126	0.00	-30.00	0.0	200.0	0.0000	0.0000	126
127	0.00	-40.00	0.0	200.0	0.0000	0.0000	127
128	0.00	-50.00	0.0	200.0	0.0000	0.0000	128

Susitna DEIS Comments
Willow Site Coal Fired Plant
Worst Case Impacts for SO2 Using Worst Case Coal

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 84/ 1 : HOUR 8

RECEPTOR NO. NAME	EAST COORD	NORTH COORD	RECEPTOR HT ABV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1	0.38	0.92	0.0	170.0	0.0000	0.0000	1
2	0.77	1.85	0.0	200.0	0.0000	0.0000	2
3	1.15	2.77	0.0	200.0	0.0000	0.0000	3
4	1.53	3.70	0.0	200.0	0.0000	0.0000	4
5	1.91	4.62	0.0	200.0	0.0000	0.0000	5
6	2.30	5.54	0.0	200.0	0.0000	0.0000	6
7	2.68	6.47	0.0	200.0	0.0000	0.0000	7
8	3.06	7.39	0.0	200.0	0.0000	0.0000	8
9	3.44	8.31	0.0	200.0	0.0000	0.0000	9
10	3.83	9.24	0.0	200.0	0.0000	0.0000	10
11	5.74	13.86	0.0	250.0	0.0000	0.0000	11
12	7.76	18.48	0.0	400.0	0.0000	0.0000	12
13	9.57	23.10	0.0	400.0	0.0000	0.0000	13
14	11.48	27.72	0.0	400.0	0.0000	0.0000	14
15	15.31	36.96	0.0	400.0	0.0000	0.0000	15
16	19.13	46.19	0.0	400.0	0.0000	0.0000	16
17	0.71	0.71	0.0	150.0	0.0000	0.0000	17
18	1.41	1.41	0.0	200.0	0.0000	0.0000	18
19	2.12	2.12	0.0	200.0	0.0000	0.0000	19
20	2.83	2.83	0.0	200.0	0.0000	0.0000	20
21	3.54	3.54	0.0	200.0	0.0000	0.0000	21
22	4.24	4.24	0.0	200.0	0.0000	0.0000	22
23	4.95	4.95	0.0	200.0	0.0000	0.0000	23
24	5.66	5.66	0.0	200.0	0.0000	0.0000	24
25	6.36	6.36	0.0	200.0	0.0000	0.0000	25
26	7.07	7.07	0.0	300.0	0.0000	0.0000	26
27	10.61	10.61	0.0	400.0	0.0000	0.0000	27
28**	14.14	14.14	0.0	750.0	0.0000	0.0000	28
29**	17.68	17.68	0.0	1250.0	0.0000	0.0000	29
30**	21.21	21.21	0.0	600.0	0.0000	0.0000	30
31	28.28	28.28	0.0	400.0	0.0000	0.0000	31
32	35.36	35.36	0.0	400.0	0.0000	0.0000	32
33	0.92	0.38	0.0	150.0	0.0000	0.0000	33
34	1.85	0.77	0.0	200.0	0.0000	0.0000	34
35	2.77	1.15	0.0	200.0	0.0000	0.0000	35
36	3.70	1.53	0.0	200.0	0.0000	[illegible] 0000	36
37	4.62	1.91	0.0	200.0	0.0000	0.[illegible]	37
38	5.54	2.30	0.0	200.0	0.0000	0.[illegible]	38
39	6.47	2.68	0.0	200.0	0.0000	0.000[illegible]	39
40	7.39	3.06	0.0	200.0	0.0000	0.0000	40
41	8.31	3.44	0.0	200.0	0.0000	0.0000	41
42	9.24	3.83	0.0	300.0	0.0000	0.0000	42
43**	13.86	5.74	0.0	600.0	0.0000	0.0000	43
44**	18.48	7.65	0.0	1800.0	0.0000	0.0000	44
45**	23.10	9.57	0.0	3000.0	0.0000	0.0000	45
46**	27.72	11.48	0.0	3500.0	0.0000	0.0000	46
47**	36.96	15.31	0.0	4000.0	0.0000	0.0000	47
48**	46.19	19.13	0.0	2000.0	0.0000	0.0000	48
49	1.00	0.00	0.0	150.0	0.0000	0.0000	49

26

50	2.00	0.00	0.0	150.0	0.0000	0.0000	50
51	3.00	0.00	0.0	200.0	0.0000	0.0000	51
52	4.00	0.00	0.0	200.0	0.0000	0.0000	52
53	5.00	0.00	0.0	200.0	0.0000	0.0000	53
54	6.00	0.00	0.0	200.0	0.0000	0.0000	54
55	7.00	0.00	0.0	200.0	0.0000	0.0000	55
56	8.00	0.00	0.0	200.0	0.0000	0.0000	56
57	9.00	0.00	0.0	200.0	0.0000	0.0000	57
58	10.00	0.00	0.0	300.0	0.0000	0.0000	58
59**	15.00	0.00	0.0	750.0	0.0000	0.0000	59
60**	20.00	0.00	0.0	1600.0	0.0000	0.0000	60
61**	25.00	0.00	0.0	2000.0	0.0000	0.0000	61
62**	30.00	0.00	0.0	3000.0	0.0000	0.0000	62
63**	40.00	0.00	0.0	3600.0	0.0000	0.0000	63
64**	50.00	0.00	0.0	4000.0	0.0000	0.0000	64
65	0.92	-0.38	0.0	150.0	0.0000	0.0000	65
66	1.85	-0.77	0.0	160.0	0.0000	0.0000	66
67	2.77	-1.15	0.0	170.0	0.0000	0.0000	67
68	3.70	-1.53	0.0	180.0	0.0000	0.0000	68
69	4.62	-1.91	0.0	190.0	0.0000	0.0000	69
70	5.54	-2.30	0.0	200.0	0.0000	0.0000	70
71	6.47	-2.68	0.0	200.0	0.0000	0.0000	71
72	7.39	-3.06	0.0	200.0	0.0000	0.0000	72
73	8.31	-3.44	0.0	200.0	0.0000	0.0000	73
74	9.24	-3.83	0.0	200.0	0.0000	0.0000	74
75**	13.86	-5.74	0.0	600.0	0.0000	0.0000	75
76**	18.48	-7.65	0.0	1400.0	0.0000	0.0000	76
77**	23.10	-9.57	0.0	1600.0	0.0000	0.0000	77
78**	27.72	-11.48	0.0	3000.0	0.0000	0.0000	78
79**	36.96	-15.31	0.0	1000.0	0.0000	0.0000	79
80**	46.19	-19.13	0.0	600.0	0.0000	0.0000	80
81	0.71	-0.71	0.0	150.0	0.0000	0.0000	81
82	1.41	-1.41	0.0	150.0	0.0000	0.0000	82
83	2.12	-2.12	0.0	160.0	0.0000	0.0000	83
84	2.83	-2.83	0.0	170.0	0.0000	0.0000	84
85	3.54	-3.54	0.0	180.0	0.0000	0.0000	85
86	4.24	-4.24	0.0	190.0	0.0000	0.0000	86
87	4.95	-4.95	0.0	200.0	0.0000	0.0000	87
88	5.66	-5.66	0.0	200.0	0.0000	0.0000	88
89	6.36	-6.36	0.0	200.0	0.0000	0.0000	89
90	7.07	-7.07	0.0	200.0	0.0000	0.0000	90
91	10.61	-10.61	0.0	400.0	0.0000	0.0000	91
92**	14.14	-14.14	0.0	700.0	0.0000	0.0000	92
93**	17.68	-17.68	0.0	600.0	0.0000	0.0000	93
94	21.21	-21.21	0.0	300.0	0.0000	0.0000	94
95	28.28	-28.28	0.0	300.0	0.0000	0.0000	95
96 *	35.36	-35.36	0.0	20.0	0.0000	0.0000	96
97	0.38	-0.92	0.0	150.0	0.0000	0.0000	97
98	0.77	-1.85	0.0	150.0	0.0000	0.0000	98
99	1.15	-2.77	0.0	150.0	0.0000	0.0000	99
100	1.53	-3.70	0.0	150.0	0.0000	0.0000	100
101	1.91	-4.62	0.0	160.0	0.0000	0.0000	101
102	2.30	-5.54	0.0	170.0	0.0000	0.0000	102
103	2.68	-6.47	0.0	180.0	0.0000	0.0000	103
104	3.06	-7.39	0.0	190.0	0.0000	0.0000	104
105	3.44	-8.31	0.0	200.0	0.0000	0.0000	105
106	3.83	-9.24	0.0	200.0	0.0000	0.0000	106
107	5.74	-13.86	0.0	200.0	0.0000	0.0000	107
108	7.76	-18.48	0.0	200.0	0.0000	0.0000	108
109	9.57	-23.10	0.0	200.0	0.0000	0.0000	109
110	11.48	-27.72	0.0	150.0	0.0000	0.0000	110

111 *	15.31	-36.96	0.0	100.0	0.0000	0.0000	111
112 *	19.13	-46.19	0.0	10.0	0.0000	0.0000	112
113	0.00	-1.00	0.0	150.0	0.0000	0.0000	113
114	0.00	-2.00	0.0	150.0	0.0000	0.0000	114
115	0.00	-3.00	0.0	150.0	0.0000	0.0000	115
116	0.00	-4.00	0.0	150.0	0.0000	0.0000	116
117	0.00	-5.00	0.0	150.0	0.0000	0.0000	117
118	0.00	-6.00	0.0	160.0	0.0000	0.0000	118
119	0.00	-7.00	0.0	170.0	0.0000	0.0000	119
120	0.00	-8.00	0.0	180.0	0.0000	0.0000	120
121	0.00	-9.00	0.0	190.0	0.0000	0.0000	121
122	0.00	-10.00	0.0	200.0	0.0000	0.0000	122
123	0.00	-15.00	0.0	200.0	0.0000	0.0000	123
124	0.00	-20.00	0.0	200.0	0.0000	0.0000	124
125	0.00	-25.00	0.0	200.0	0.0000	0.0000	125
126	0.00	-30.00	0.0	200.0	0.0000	0.0000	126
127	0.00	-40.00	0.0	200.0	0.0000	0.0000	127
128	0.00	-50.00	0.0	200.0	0.0000	0.0000	128

Susitna DEIS Comments
Willow Site Coal Fired Plant
Worst Case Impacts for SO2 Using Worst Case Coal

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 84/ 1 : HOUR 9

RECEPTOR NO.	NAME	EAST COORD	NORTH COORD	RECEPTOR HT ABV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1		0.38	0.92	0.0	170.0	0.0000	0.0000	1
2		0.77	1.85	0.0	200.0	0.0000	0.0000	2
3		1.15	2.77	0.0	200.0	0.0000	0.0000	3
4		1.53	3.70	0.0	200.0	0.0000	0.0000	4
5		1.91	4.62	0.0	200.0	0.0000	0.0000	5
6		2.30	5.54	0.0	200.0	0.0000	0.0000	6
7		2.68	6.47	0.0	200.0	0.0000	0.0000	7
8		3.06	7.39	0.0	200.0	0.0000	0.0000	8
9		3.44	8.31	0.0	200.0	0.0000	0.0000	9
10		3.83	9.24	0.0	200.0	0.0000	0.0000	10
11		5.74	13.86	0.0	250.0	0.0000	0.0000	11
12		7.76	18.48	0.0	400.0	0.0000	0.0000	12
13		9.57	23.10	0.0	400.0	0.0000	0.0000	13
14		11.48	27.72	0.0	400.0	0.0000	0.0000	14
15		15.31	36.96	0.0	400.0	0.0000	0.0000	15
16		19.13	46.19	0.0	400.0	0.0000	0.0000	16
17		0.71	0.71	0.0	150.0	0.0000	0.0000	17
18		1.41	1.41	0.0	200.0	0.0000	0.0000	18
19		2.12	2.12	0.0	200.0	0.0000	0.0000	19
20		2.83	2.83	0.0	200.0	0.0000	0.0000	20
21		3.54	3.54	0.0	200.0	0.0000	0.0000	21
22		4.24	4.24	0.0	200.0	0.0000	0.0000	22
23		4.95	4.95	0.0	200.0	0.0000	0.0000	23
24		5.66	5.66	0.0	200.0	0.0000	0.0000	24
25		6.36	6.36	0.0	200.0	0.0000	0.0000	25
26		7.07	7.07	0.0	300.0	0.0000	0.0000	26
27		10.61	10.61	0.0	400.0	0.0000	0.0000	27
28**		14.14	14.14	0.0	750.0	0.0000	0.0000	28
29**		17.68	17.68	0.0	1250.0	0.0000	0.0000	29
30**		21.21	21.21	0.0	600.0	0.0000	0.0000	30
31		28.28	28.28	0.0	400.0	0.0000	0.0000	31
32		35.36	35.36	0.0	400.0	0.0000	0.0000	32
33		0.92	0.38	0.0	150.0	0.0000	0.0000	33
34		1.85	0.77	0.0	200.0	0.0000	0.0000	34
35		2.77	1.15	0.0	200.0	0.0000	0.0000	35
36		3.70	1.53	0.0	200.0	0.0000	0.0000	36
37		4.62	1.91	0.0	200.0	0.0000	0.0000	37
38		5.54	2.30	0.0	200.0	0.0000	0.0000	38
39		6.47	2.68	0.0	200.0	0.0000	0.0000	39
40		7.39	3.06	0.0	200.0	0.0000	0.0000	40
41		8.31	3.44	0.0	200.0	0.0000	0.0000	41
42		9.24	3.83	0.0	300.0	0.0000	0.0000	42
43**		13.86	5.74	0.0	600.0	0.0000	0.0000	43
44**		18.48	7.65	0.0	1800.0	0.0000	0.0000	44
45**		23.10	9.57	0.0	3000.0	0.0000	0.0000	45
46**		27.72	11.43	0.0	3500.0	0.0000	0.0000	46
47**		36.96	15.31	0.0	4000.0	0.0000	0.0000	47
48**		46.19	19.13	0.0	2000.0	0.0000	0.0000	48
49		1.00	0.00	0.0	150.0	0.0000	0.0000	49

50	2.00	0.00	0.0	150.0	0.0000	0.0000	50
51	3.00	0.00	0.0	200.0	0.0000	0.0000	51
52	4.00	0.00	0.0	200.0	0.0000	0.0000	52
53	5.00	0.00	0.0	200.0	0.0000	0.0000	53
54	6.00	0.00	0.0	200.0	0.0000	0.0000	54
55	7.00	0.00	0.0	200.0	0.0000	0.0000	55
56	8.00	0.00	0.0	200.0	0.0000	0.0000	56
57	9.00	0.00	0.0	200.0	0.0000	0.0000	57
58	10.00	0.00	0.0	300.0	0.0000	0.0000	58
59**	15.00	0.00	0.0	750.0	0.0000	0.0000	59
60**	20.00	0.00	0.0	1600.0	0.0000	0.0000	60
61**	25.00	0.00	0.0	2000.0	0.0000	0.0000	61
62**	30.00	0.00	0.0	3000.0	0.0000	0.0000	62
63**	40.00	0.00	0.0	3600.0	0.0000	0.0000	63
64**	50.00	0.00	0.0	4000.0	0.0000	0.0000	64
65	0.92	-0.38	0.0	150.0	0.0000	0.0000	65
66	1.85	-0.77	0.0	160.0	0.0000	0.0000	66
67	2.77	-1.15	0.0	170.0	0.0000	0.0000	67
68	3.70	-1.53	0.0	180.0	0.0000	0.0000	68
69	4.62	-1.91	0.0	190.0	0.0000	0.0000	69
70	5.54	-2.30	0.0	200.0	0.0000	0.0000	70
71	6.47	-2.68	0.0	200.0	0.0000	0.0000	71
72	7.39	-3.06	0.0	200.0	0.0000	0.0000	72
73	8.31	-3.44	0.0	200.0	0.0000	0.0000	73
74	9.24	-3.83	0.0	200.0	0.0000	0.0000	74
75**	13.86	-5.74	0.0	600.0	0.0000	0.0000	75
76**	18.48	-7.65	0.0	1400.0	0.0000	0.0000	76
77**	23.10	-9.57	0.0	1600.0	0.0000	0.0000	77
78**	27.72	-11.48	0.0	3000.0	0.0000	0.0000	78
79**	36.96	-15.31	0.0	1000.0	0.0000	0.0000	79
80**	46.19	-19.13	0.0	600.0	0.0000	0.0000	80
81	0.71	-0.71	0.0	150.0	0.0000	0.0000	81
82	1.41	-1.41	0.0	150.0	0.0000	0.0000	82
83	2.12	-2.12	0.0	160.0	0.0000	0.0000	83
84	2.83	-2.83	0.0	170.0	0.0000	0.0000	84
85	3.54	-3.54	0.0	180.0	0.0000	0.0000	85
86	4.24	-4.24	0.0	190.0	0.0000	0.0000	86
87	4.95	-4.95	0.0	200.0	0.0000	0.0000	87
88	5.66	-5.66	0.0	200.0	0.0000	0.0000	88
89	6.36	-6.36	0.0	200.0	0.0000	0.0000	89
90	7.07	-7.07	0.0	200.0	0.0000	0.0000	90
91	10.61	-10.61	0.0	400.0	0.0000	0.0000	91
92**	14.14	-14.14	0.0	700.0	0.0000	0.0000	92
93**	17.68	-17.68	0.0	600.0	0.0000	0.0000	93
94	21.21	-21.21	0.0	300.0	0.0000	0.0000	94
95	28.28	-28.28	0.0	300.0	0.0000	0.0000	95
96 *	35.36	-35.36	0.0	20.0	0.0000	0.0000	96
97	0.38	-0.92	0.0	150.0	0.0000	0.0000	97
98	0.77	-1.85	0.0	150.0	0.0000	0.0000	98
99	1.15	-2.77	0.0	150.0	0.0000	0.0000	99
100	1.53	-3.70	0.0	150.0	0.0000	0.0000	100
101	1.91	-4.62	0.0	160.0	0.0000	0.0000	101
102	2.30	-5.54	0.0	170.0	0.0000	0.0000	102
103	2.68	-6.47	0.0	180.0	0.0000	0.0000	103
104	3.06	-7.39	0.0	190.0	0.0000	0.0000	104
105	3.44	-8.31	0.0	200.0	0.0000	0.0000	105
106	3.83	-9.24	0.0	200.0	0.0000	0.0000	106
107	5.74	-13.86	0.0	200.0	0.0000	0.0000	107
108	7.76	-18.48	0.0	200.0	0.0000	0.0000	108
109	9.57	-23.10	0.0	200.0	0.0000	0.0000	109
110	11.48	-27.72	0.0	150.0	0.0000	0.0000	110

111 *	15.31	-36.96	0.0	100.0	0.0000	0.0000	111
112 *	19.13	-46.19	0.0	10.0	0.0000	0.0000	112
113	0.00	-1.00	0.0	150.0	0.0000	0.0000	113
114	0.00	-2.00	0.0	150.0	0.0000	0.0000	114
115	0.00	-3.00	0.0	150.0	0.0000	0.0000	115
116	0.00	-4.00	0.0	150.0	0.0000	0.0000	116
117	0.00	-5.00	0.0	150.0	0.0000	0.0000	117
118	0.00	-6.00	0.0	160.0	0.0000	0.0000	118
119	0.00	-7.00	0.0	170.0	0.0000	0.0000	119
120	0.00	-8.00	0.0	180.0	0.0000	0.0000	120
121	0.00	-9.00	0.0	190.0	0.0000	0.0000	121
122	0.00	-10.00	0.0	200.0	0.0000	0.0000	122
123	0.00	-15.00	0.0	200.0	0.0000	0.0000	123
124	0.00	-20.00	0.0	200.0	0.0000	0.0000	124
125	0.00	-25.00	0.0	200.0	0.0000	0.0000	125
126	0.00	-30.00	0.0	200.0	0.0000	0.0000	126
127	0.00	-40.00	0.0	200.0	0.0000	0.0000	127
128	0.00	-50.00	0.0	200.0	0.0000	0.0000	128

Susitna DEIS Comments
Willow Site Coal Fired Plant
Worst Case Impacts for SO2 Using Worst Case Coal

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 84/ 1 : HOUR 10

RECEPTOR NO.	NAME	EAST COORD	NORTH COORD	RECEPTOR HT .ABV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1		0.38	0.92	0.0	170.0	0.0000	0.0000	16
2		0.77	1.85	0.0	200.0	0.0000	0.0000	15
3		1.15	2.77	0.0	200.0	0.0000	0.0000	14
4		1.53	3.70	0.0	200.0	0.0000	0.0000	13
5		1.91	4.62	0.0	200.0	0.0000	0.0005	12
6		2.30	5.54	0.0	200.0	0.0000	0.0037	11
7		2.68	6.47	0.0	200.0	0.0000	0.0138	10
8		3.06	7.39	0.0	200.0	0.0000	0.0352	9
9		3.44	8.31	0.0	200.0	0.0000	0.0699	8
10		3.83	9.24	0.0	200.0	0.0000	0.1171	7
11		5.74	13.86	0.0	250.0	0.0000	0.4283	6
12		7.76	18.48	0.0	400.0	0.0000	0.7889	3
13		9.57	23.10	0.0	400.0	0.0000	0.8518	2
14		11.48	27.72	0.0	400.0	0.0000	0.8550	1
15		15.31	36.96	0.0	400.0	0.0000	0.7738	4
16		19.13	46.19	0.0	400.0	0.0000	0.6793	5
17		0.71	0.71	0.0	150.0	0.0000	0.0000	17
18		1.41	1.41	0.0	200.0	0.0000	0.0000	18
19		2.12	2.12	0.0	200.0	0.0000	0.0000	19
20		2.83	2.83	0.0	200.0	0.0000	0.0000	20
21		3.54	3.54	0.0	200.0	0.0000	0.0000	21
22		4.24	4.24	0.0	200.0	0.0000	0.0000	22
23		4.95	4.95	0.0	200.0	0.0000	0.0000	23
24		5.66	5.66	0.0	200.0	0.0000	0.0000	24
25		6.36	6.36	0.0	200.0	0.0000	0.0000	25
26		7.07	7.07	0.0	300.0	0.0000	0.0000	26
27		10.61	10.61	0.0	400.0	0.0000	0.0000	27
28**		14.14	14.14	0.0	750.0	0.0000	0.0000	28
29**		17.68	17.68	0.0	1250.0	0.0000	0.0000	29
30**		21.21	21.21	0.0	600.0	0.0000	0.0000	30
31		28.28	28.28	0.0	400.0	0.0000	0.0000	31
32		35.36	35.36	0.0	400.0	0.0000	0.0000	32
33		0.92	0.38	0.0	150.0	0.0000	0.0000	33
34		1.85	0.77	0.0	200.0	0.0000	0.0000	34
35		2.77	1.15	0.0	200.0	0.0000	0.0000	35
36		3.70	1.53	0.0	200.0	0.0000	0.0000	36
37		4.62	1.91	0.0	200.0	0.0000	0.0000	37
38		5.54	2.30	0.0	200.0	0.0000	0.0000	38
39		6.47	2.68	0.0	200.0	0.0000	0.0000	39
40		7.39	3.06	0.0	200.0	0.0000	0.0000	40
41		8.31	3.44	0.0	200.0	0.0000	0.0000	41
42		9.24	3.83	0.0	300.0	0.0000	0.0000	42
43**		13.86	5.74	0.0	600.0	0.0000	0.0000	43
44**		18.48	7.65	0.0	1800.0	0.0000	0.0000	44
45**		23.10	9.57	0.0	3000.0	0.0000	0.0000	45
46**		27.72	11.48	0.0	3500.0	0.0000	0.0000	46
47**		36.96	15.31	0.0	4000.0	0.0000	0.0000	47
48**		46.19	19.13	0.0	2000.0	0.0000	0.0000	48
49		1.00	0.00	0.0	150.0	0.0000	0.0000	49

32

50	2.00	0.00	0.0	150.0	0.0000	0.0000	50
51	3.00	0.00	0.0	200.0	0.0000	0.0000	51
52	4.00	0.00	0.0	200.0	0.0000	0.0000	52
53	5.00	0.00	0.0	200.0	0.0000	0.0000	53
54	6.00	0.00	0.0	200.0	0.0000	0.0000	54
55	7.00	0.00	0.0	200.0	0.0000	0.0000	55
56	8.00	0.00	0.0	200.0	0.0000	0.0000	56
57	9.00	0.00	0.0	200.0	0.0000	0.0000	57
58	10.00	0.00	0.0	300.0	0.0000	0.0000	58
59**	15.00	0.00	0.0	750.0	0.0000	0.0000	59
60**	20.00	0.00	0.0	1600.0	0.0000	0.0000	60
61**	25.00	0.00	0.0	2000.0	0.0000	0.0000	61
62**	30.00	0.00	0.0	3000.0	0.0000	0.0000	62
63**	40.00	0.00	0.0	3600.0	0.0000	0.0000	63
64**	50.00	0.00	0.0	4000.0	0.0000	0.0000	64
65	0.92	-0.38	0.0	150.0	0.0000	0.0000	65
66	1.85	-0.77	0.0	160.0	0.0000	0.0000	66
67	2.77	-1.15	0.0	170.0	0.0000	0.0000	67
68	3.70	-1.53	0.0	180.0	0.0000	0.0000	68
69	4.62	-1.91	0.0	190.0	0.0000	0.0000	69
70	5.54	-2.30	0.0	200.0	0.0000	0.0000	70
71	6.47	-2.68	0.0	200.0	0.0000	0.0000	71
72	7.39	-3.06	0.0	200.0	0.0000	0.0000	72
73	8.31	-3.44	0.0	200.0	0.0000	0.0000	73
74	9.24	-3.83	0.0	200.0	0.0000	0.0000	74
75**	13.86	-5.74	0.0	600.0	0.0000	0.0000	75
76**	18.48	-7.65	0.0	1400.0	0.0000	0.0000	76
77**	23.10	-9.57	0.0	1600.0	0.0000	0.0000	77
78**	27.72	-11.48	0.0	3000.0	0.0000	0.0000	78
79**	36.96	-15.31	0.0	1000.0	0.0000	0.0000	79
80**	46.19	-19.13	0.0	600.0	0.0000	0.0000	80
81	0.71	-0.71	0.0	150.0	0.0000	0.0000	81
82	1.41	-1.41	0.0	150.0	0.0000	0.0000	82
83	2.12	-2.12	0.0	160.0	0.0000	0.0000	83
84	2.83	-2.83	0.0	170.0	0.0000	0.0000	84
85	3.54	-3.54	0.0	180.0	0.0000	0.0000	85
86	4.24	-4.24	0.0	190.0	0.0000	0.0000	86
87	4.95	-4.95	0.0	200.0	0.0000	0.0000	87
88	5.66	-5.66	0.0	200.0	0.0000	0.0000	88
89	6.36	-6.36	0.0	200.0	0.0000	0.0000	89
90	7.07	-7.07	0.0	200.0	0.0000	0.0000	90
91	10.61	-10.61	0.0	400.0	0.0000	0.0000	91
92**	14.14	-14.14	0.0	700.0	0.0000	0.0000	92
93**	17.68	-17.68	0.0	600.0	0.0000	0.0000	93
94	21.21	-21.21	0.0	300.0	0.0000	0.0000	94
95	28.28	-28.28	0.0	300.0	0.0000	0.0000	95
96 *	35.36	-35.36	0.0	20.0	0.0000	0.0000	96
97	0.38	-0.92	0.0	150.0	0.0000	0.0000	97
98	0.77	-1.85	0.0	150.0	0.0000	0.0000	98
99	1.15	-2.77	0.0	150.0	0.0000	0.0000	99
100	1.53	-3.70	0.0	150.0	0.0000	0.0000	100
101	1.91	-4.62	0.0	160.0	0.0000	0.0000	101
102	2.30	-5.54	0.0	170.0	0.0000	0.0000	102
103	2.68	-6.47	0.0	180.0	0.0000	0.0000	103
104	3.06	-7.39	0.0	190.0	0.0000	0.0000	104
105	3.44	-8.31	0.0	200.0	0.0000	0.0000	105
106	3.83	-9.24	0.0	200.0	0.0000	0.0000	106
107	5.74	-13.86	0.0	200.0	0.0000	0.0000	107
108	7.76	-18.48	0.0	200.0	0.0000	0.0000	108
109	9.57	-23.10	0.0	200.0	0.0000	0.0000	109
110	11.48	-27.72	0.0	150.0	0.0000	0.0000	110

111 *	15.31	-36.96	0.0	100.0	0.0000	0.0000	111
112 *	19.13	-46.19	0.0	10.0	0.0000	0.0000	112
113	0.00	-1.00	0.0	150.0	0.0000	0.0000	113
114	0.00	-2.00	0.0	150.0	0.0000	0.0000	114
115	0.00	-3.00	0.0	150.0	0.0000	0.0000	115
116	0.00	-4.00	0.0	150.0	0.0000	0.0000	116
117	0.00	-5.00	0.0	150.0	0.0000	0.0000	117
118	0.00	-6.00	0.0	160.0	0.0000	0.0000	118
119	0.00	-7.00	0.0	170.0	0.0000	0.0000	119
120	0.00	-8.00	0.0	180.0	0.0000	0.0000	120
121	0.00	-9.00	0.0	190.0	0.0000	0.0000	121
122	0.00	-10.00	0.0	200.0	0.0000	0.0000	122
123	0.00	-15.00	0.0	200.0	0.0000	0.0000	123
124	0.00	-20.00	0.0	200.0	0.0000	0.0000	124
125	0.00	-25.00	0.0	200.0	0.0000	0.0000	125
126	0.00	-30.00	0.0	200.0	0.0000	0.0000	126
127	0.00	-40.00	0.0	200.0	0.0000	0.0000	127
128	0.00	-50.00	0.0	200.0	0.0000	0.0000	128

Susitna DEIS Comments
Willow Site Coal Fired Plant
Worst Case Impacts for SO2 Using Worst Case Coal

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 84/ 1 : HOUR 11

RECEPTOR NO.	NAME	EAST COORD	NORTH COORD	RECEPTOR HT ABV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1		0.38	0.92	0.0	170.0	0.0000	0.0000	16
2		0.77	1.85	0.0	200.0	0.0000	0.0000	17
3		1.15	2.77	0.0	200.0	0.0000	0.0000	18
4		1.53	3.70	0.0	200.0	0.0000	0.0000	19
5		1.91	4.62	0.0	200.0	0.0000	0.0000	20
6		2.30	5.54	0.0	200.0	0.0000	0.0000	21
7		2.68	6.47	0.0	200.0	0.0000	0.0000	22
8		3.06	7.39	0.0	200.0	0.0000	0.0000	23
9		3.44	8.31	0.0	200.0	0.0000	0.0000	24
10		3.83	9.24	0.0	200.0	0.0000	0.0000	25
11		5.74	13.86	0.0	250.0	0.0000	0.0000	26
12		7.76	18.48	0.0	400.0	0.0000	0.0000	27
13		9.57	23.10	0.0	400.0	0.0000	0.0000	28
14		11.48	27.72	0.0	400.0	0.0000	0.0000	29
15		15.31	36.96	0.0	400.0	0.0000	0.0000	30
16		19.13	46.19	0.0	400.0	0.0000	0.0000	31
17		0.71	0.71	0.0	150.0	0.0000	0.0000	32
18		1.41	1.41	0.0	200.0	0.0000	0.0000	15
19		2.12	2.12	0.0	200.0	0.0000	0.0000	14
20		2.83	2.83	0.0	200.0	0.0000	0.0000	13
21		3.54	3.54	0.0	200.0	0.0000	0.0000	12
22		4.24	4.24	0.0	200.0	0.0000	0.0003	11
23		4.95	4.95	0.0	200.0	0.0000	0.0016	10
24		5.66	5.66	0.0	200.0	0.0000	0.0059	9
25		6.36	6.36	0.0	200.0	0.0000	0.0151	8
26		7.07	7.07	0.0	300.0	0.0000	0.0509	7
27		10.61	10.61	0.0	400.0	0.0000	0.3218	6
28**		14.14	14.14	0.0	750.0	0.0000	1.1878	2
29**		17.68	17.68	0.0	1250.0	0.0000	2.1841	1
30**		21.21	21.21	0.0	600.0	0.0000	0.8532	3
31		28.28	28.28	0.0	400.0	0.0000	0.6830	4
32		35.36	35.36	0.0	400.0	0.0000	0.6364	5
33		0.92	0.38	0.0	150.0	0.0000	0.0000	33
34		1.85	0.77	0.0	200.0	0.0000	0.0000	34
35		2.77	1.15	0.0	200.0	0.0000	0.0000	35
36		3.70	1.53	0.0	200.0	0.0000	0.0000	36
37		4.62	1.91	0.0	200.0	0.0000	0.0000	37
38		5.54	2.30	0.0	200.0	0.0000	0.0000	38
39		6.47	2.68	0.0	200.0	0.0000	0.0000	39
40		7.39	3.06	0.0	200.0	0.0000	0.0000	40
41		8.31	3.44	0.0	200.0	0.0000	0.0000	41
42		9.24	3.83	0.0	300.0	0.0000	0.0000	42
43**		13.86	5.74	0.0	600.0	0.0000	0.0000	43
44**		18.48	7.65	0.0	1800.0	0.0000	0.0000	44
45**		23.10	9.57	0.0	3000.0	0.0000	0.0000	45
46**		27.72	11.48	0.0	3500.0	0.0000	0.0000	46
47**		36.96	15.31	0.0	4000.0	0.0000	0.0000	47
48**		46.19	19.13	0.0	2000.0	0.0000	0.0000	48
49		1.00	0.00	0.0	150.0	0.0000	0.0000	49

50	2.00	0.00	0.0	150.0	0.0000	0.0000	50
51	3.00	0.00	0.0	200.0	0.0000	0.0000	51
52	4.00	0.00	0.0	200.0	0.0000	0.0000	52
53	5.00	0.00	0.0	200.0	0.0000	0.0000	53
54	6.00	0.00	0.0	200.0	0.0000	0.0000	54
55	7.00	0.00	0.0	200.0	0.0000	0.0000	55
56	8.00	0.00	0.0	200.0	0.0000	0.0000	56
57	9.00	0.00	0.0	200.0	0.0000	0.0000	57
58	10.00	0.00	0.0	300.0	0.0000	0.0000	58
59**	15.00	0.00	0.0	750.0	0.0000	0.0000	59
60**	20.00	0.00	0.0	1600.0	0.0000	0.0000	60
61**	25.00	0.00	0.0	2000.0	0.0000	0.0000	61
62**	30.00	0.00	0.0	3000.0	0.0000	0.0000	62
63**	40.00	0.00	0.0	3600.0	0.0000	0.0000	63
64**	50.00	0.00	0.0	4000.0	0.0000	0.0000	64
65	0.92	-0.38	0.0	150.0	0.0000	0.0000	65
66	1.85	-0.77	0.0	160.0	0.0000	0.0000	66
67	2.77	-1.15	0.0	170.0	0.0000	0.0000	67
68	3.70	-1.53	0.0	180.0	0.0000	0.0000	68
69	4.62	-1.91	0.0	190.0	0.0000	0.0000	69
70	5.54	-2.30	0.0	200.0	0.0000	0.0000	70
71	6.47	-2.68	0.0	200.0	0.0000	0.0000	71
72	7.39	-3.06	0.0	200.0	0.0000	0.0000	72
73	8.31	-3.44	0.0	200.0	0.0000	0.0000	73
74	9.24	-3.83	0.0	200.0	0.0000	0.0000	74
75**	13.86	-5.74	0.0	600.0	0.0000	0.0000	75
76**	18.48	-7.65	0.0	1400.0	0.0000	0.0000	76
77**	23.10	-9.57	0.0	1600.0	0.0000	0.0000	77
78**	27.72	-11.48	0.0	3000.0	0.0000	0.0000	78
79**	36.96	-15.31	0.0	1000.0	0.0000	0.0000	79
80**	46.19	-19.13	0.0	600.0	0.0000	0.0000	80
81	0.71	-0.71	0.0	150.0	0.0000	0.0000	81
82	1.41	-1.41	0.0	150.0	0.0000	0.0000	82
83	2.12	-2.12	0.0	160.0	0.0000	0.0000	83
84	2.83	-2.83	0.0	170.0	0.0000	0.0000	84
85	3.54	-3.54	0.0	180.0	0.0000	0.0000	85
86	4.24	-4.24	0.0	190.0	0.0000	0.0000	86
87	4.95	-4.95	0.0	200.0	0.0000	0.0000	87
88	5.66	-5.66	0.0	200.0	0.0000	0.0000	88
89	6.36	-6.36	0.0	200.0	0.0000	0.0000	89
90	7.07	-7.07	0.0	200.0	0.0000	0.0000	90
91	10.61	-10.61	0.0	400.0	0.0000	0.0000	91
92**	14.14	-14.14	0.0	700.0	0.0000	0.0000	92
93**	17.68	-17.68	0.0	600.0	0.0000	0.0000	93
94	21.21	-21.21	0.0	300.0	0.0000	0.0000	94
95	28.28	-28.28	0.0	300.0	0.0000	0.0000	95
96 *	35.36	-35.36	0.0	20.0	0.0000	0.0000	96
97	0.38	-0.92	0.0	150.0	0.0000	0.0000	97
98	0.77	-1.85	0.0	150.0	0.0000	0.0000	98
99	1.15	-2.77	0.0	150.0	0.0000	0.0000	99
100	1.53	-3.70	0.0	150.0	0.0000	0.0000	100
101	1.91	-4.62	0.0	160.0	0.0000	0.0000	101
102	2.30	-5.54	0.0	170.0	0.0000	0.0000	102
103	2.68	-6.47	0.0	180.0	0.0000	0.0000	103
104	3.06	-7.39	0.0	190.0	0.0000	0.0000	104
105	3.44	-8.31	0.0	200.0	0.0000	0.0000	105
106	3.83	-9.24	0.0	200.0	0.0000	0.0000	106
107	5.74	-13.86	0.0	200.0	0.0000	0.0000	107
108	7.76	-18.48	0.0	200.0	0.0000	0.0000	108
109	9.57	-23.10	0.0	200.0	0.0000	0.0000	109
110	11.48	-27.72	0.0	150.0	0.0000	0.0000	110

111 *	15.31	-36.96	0.0	100.0	0.0000	0.0000	111
112 *	19.13	-46.19	0.0	10.0	0.0000	0.0000	112
113	0.00	-1.00	0.0	150.0	0.0000	0.0000	113
114	0.00	-2.00	0.0	150.0	0.0000	0.0000	114
115	0.00	-3.00	0.0	150.0	0.0000	0.0000	115
116	0.00	-4.00	0.0	150.0	0.0000	0.0000	116
117	0.00	-5.00	0.0	150.0	0.0000	0.0000	117
118	0.00	-6.00	0.0	160.0	0.0000	0.0000	118
119	0.00	-7.00	0.0	170.0	0.0000	0.0000	119
120	0.00	-8.00	0.0	180.0	0.0000	0.0000	120
121	0.00	-9.00	0.0	190.0	0.0000	0.0000	121
122	0.00	-10.00	0.0	200.0	0.0000	0.0000	122
123	0.00	-15.00	0.0	200.0	0.0000	0.0000	123
124	0.00	-20.00	0.0	200.0	0.0000	0.0000	124
125	0.00	-25.00	0.0	200.0	0.0000	0.0000	125
126	0.00	-30.00	0.0	200.0	0.0000	0.0000	126
127	0.00	-40.00	0.0	200.0	0.0000	0.0000	127
128	0.00	-50.00	0.0	200.0	0.0000	0.0000	128

Susitna DEIS Comments
Willow Site Coal Fired Plant
Worst Case Impacts for SO2 Using Worst Case Coal

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 84/ 1 : HOUR 12

RECEPTOR NO.	NAME	EAST COORD	NORTH COORD	RECEPTOR HT ABV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1		0.38	0.92	0.0	170.0	0.0000	0.0000	15
2		0.77	1.85	0.0	200.0	0.0000	0.0000	16
3		1.15	2.77	0.0	200.0	0.0000	0.0000	17
4		1.53	3.70	0.0	200.0	0.0000	0.0000	18
5		1.91	4.62	0.0	200.0	0.0000	0.0000	19
6		2.30	5.54	0.0	200.0	0.0000	0.0000	20
7		2.68	6.47	0.0	200.0	0.0000	0.0000	21
8		3.06	7.39	0.0	200.0	0.0000	0.0000	22
9		3.44	8.31	0.0	200.0	0.0000	0.0000	23
10		3.83	9.24	0.0	200.0	0.0000	0.0000	24
11		5.74	13.86	0.0	250.0	0.0000	0.0000	25
12		7.76	18.48	0.0	400.0	0.0000	0.0000	26
13		9.57	23.10	0.0	400.0	0.0000	0.0000	27
14		11.48	27.72	0.0	400.0	0.0000	0.0000	28
15		15.31	36.96	0.0	400.0	0.0000	0.0000	29
16		19.13	46.19	0.0	400.0	0.0000	0.0000	30
17		0.71	0.71	0.0	150.0	0.0000	0.0000	31
18		1.41	1.41	0.0	200.0	0.0000	0.0000	32
19		2.12	2.12	0.0	200.0	0.0000	0.0000	33
20		2.83	2.83	0.0	200.0	0.0000	0.0000	34
21		3.54	3.54	0.0	200.0	0.0000	0.0000	35
22		4.24	4.24	0.0	200.0	0.0000	0.0000	36
23		4.95	4.95	0.0	200.0	0.0000	0.0000	37
24		5.66	5.66	0.0	200.0	0.0000	0.0000	38
25		6.36	6.36	0.0	200.0	0.0000	0.0000	39
26		7.07	7.07	0.0	300.0	0.0000	0.0000	40
27		10.61	10.61	0.0	400.0	0.0000	0.0000	41
28**		14.14	14.14	0.0	750.0	0.0000	0.0000	42
29**		17.68	17.68	0.0	1250.0	0.0000	0.0000	43
30**		21.21	21.21	0.0	600.0	0.0000	0.0000	44
31		28.28	28.28	0.0	400.0	0.0000	0.0000	45
32		35.36	35.36	0.0	400.0	0.0000	0.0000	46
33		0.92	0.38	0.0	150.0	0.0000	0.0000	47
34		1.85	0.77	0.0	200.0	0.0000	0.0000	48
35		2.77	1.15	0.0	200.0	0.0000	0.0000	14
36		3.70	1.53	0.0	200.0	0.0000	0.0000	13
37		4.62	1.91	0.0	200.0	0.0000	0.0000	12
38		5.54	2.30	0.0	200.0	0.0000	0.0001	11
39		6.47	2.68	0.0	200.0	0.0000	0.0005	10
40		7.39	3.06	0.0	200.0	0.0000	0.0021	9
41		8.31	3.44	0.0	200.0	0.0000	0.0062	8
42		9.24	3.83	0.0	300.0	0.0000	0.0246	7
43**		13.86	5.74	0.0	600.0	0.0000	0.4969	4
44**		18.48	7.65	0.0	1800.0	0.0000	4.2677	1
45**		23.10	9.57	0.0	3000.0	0.0000	0.9586	3
46**		27.72	11.48	0.0	3500.0	0.0000	0.3238	5
47**		36.96	15.31	0.0	4000.0	0.0000	0.1231	6
48**		46.19	19.13	0.0	2000.0	0.0000	1.0480	2
49		1.00	0.00	0.0	150.0	0.0000	0.0000	49

50	2.00	0.00	0.0	150.0	0.0000	0.0000	50
51	3.00	0.00	0.0	200.0	0.0000	0.0000	51
52	4.00	0.00	0.0	200.0	0.0000	0.0000	52
53	5.00	0.00	0.0	200.0	0.0000	0.0000	53
54	6.00	0.00	0.0	200.0	0.0000	0.0000	54
55	7.00	0.00	0.0	200.0	0.0000	0.0000	55
56	8.00	0.00	0.0	200.0	0.0000	0.0000	56
57	9.00	0.00	0.0	200.0	0.0000	0.0000	57
58	10.00	0.00	0.0	300.0	0.0000	0.0000	58
59**	15.00	0.00	0.0	750.0	0.0000	0.0000	59
60**	20.00	0.00	0.0	1600.0	0.0000	0.0000	60
61**	25.00	0.00	0.0	2000.0	0.0000	0.0000	61
62**	30.00	0.00	0.0	3000.0	0.0000	0.0000	62
63**	40.00	0.00	0.0	3600.0	0.0000	0.0000	63
64**	50.00	0.00	0.0	4000.0	0.0000	0.0000	64
65	0.92	-0.38	0.0	150.0	0.0000	0.0000	65
66	1.85	-0.77	0.0	160.0	0.0000	0.0000	66
67	2.77	-1.15	0.0	170.0	0.0000	0.0000	67
68	3.70	-1.53	0.0	180.0	0.0000	0.0000	68
69	4.62	-1.91	0.0	190.0	0.0000	0.0000	69
70	5.54	-2.30	0.0	200.0	0.0000	0.0000	70
71	6.47	-2.68	0.0	200.0	0.0000	0.0000	71
72	7.39	-3.06	0.0	200.0	0.0000	0.0000	72
73	8.31	-3.44	0.0	200.0	0.0000	0.0000	73
74	9.24	-3.83	0.0	200.0	0.0000	0.0000	74
75**	13.86	-5.74	0.0	600.0	0.0000	0.0000	75
76**	18.48	-7.65	0.0	1400.0	0.0000	0.0000	76
77**	23.10	-9.57	0.0	1600.0	0.0000	0.0000	77
78**	27.72	-11.48	0.0	3000.0	0.0000	0.0000	78
79**	36.96	-15.31	0.0	1000.0	0.0000	0.0000	79
80**	46.19	-19.13	0.0	600.0	0.0000	0.0000	80
81	0.71	-0.71	0.0	150.0	0.0000	0.0000	81
82	1.41	-1.41	0.0	150.0	0.0000	0.0000	82
83	2.12	-2.12	0.0	160.0	0.0000	0.0000	83
84	2.83	-2.83	0.0	170.0	0.0000	0.0000	84
85	3.54	-3.54	0.0	180.0	0.0000	0.0000	85
86	4.24	-4.24	0.0	190.0	0.0000	0.0000	86
87	4.95	-4.95	0.0	200.0	0.0000	0.0000	87
88	5.66	-5.66	0.0	200.0	0.0000	0.0000	88
89	6.36	-6.36	0.0	200.0	0.0000	0.0000	89
90	7.07	-7.07	0.0	200.0	0.0000	0.0000	90
91	10.61	-10.61	0.0	400.0	0.0000	0.0000	91
92**	14.14	-14.14	0.0	700.0	0.0000	0.0000	92
93**	17.68	-17.68	0.0	600.0	0.0000	0.0000	93
94	21.21	-21.21	0.0	300.0	0.0000	0.0000	94
95	28.26	-28.28	0.0	300.0	0.0000	0.0000	95
96 *	35.36	-35.36	0.0	20.0	0.0000	0.0000	96
97	0.38	-0.92	0.0	150.0	0.0000	0.0000	97
98	0.77	-1.85	0.0	150.0	0.0000	0.0000	98
99	1.15	-2.77	0.0	150.0	0.0000	0.0000	99
100	1.53	-3.70	0.0	150.0	0.0000	0.0000	100
101	1.91	-4.62	0.0	160.0	0.0000	0.0000	101
102	2.30	-5.54	0.0	170.0	0.0000	0.0000	102
103	2.68	-6.47	0.0	180.0	0.0000	0.0000	103
104	3.06	-7.39	0.0	190.0	0.0000	0.0000	104
105	3.44	-8.31	0.0	200.0	0.0000	0.0000	105
106	3.83	-9.24	0.0	200.0	0.0000	0.0000	106
107	5.74	-13.86	0.0	200.0	0.0000	0.0000	107
108	7.76	-18.48	0.0	200.0	0.0000	0.0000	108
109	9.57	-23.10	0.0	200.0	0.0000	0.0000	109
110	11.48	-27.72	0.0	150.0	0.0000	0.0000	110

111 *	15.31	-36.96	0.0	100.0	0.0000	0.0000	111
112 *	19.13	-46.19	0.0	10.0	0.0000	0.0000	112
113	0.00	-1.00	0.0	150.0	0.0000	0.0000	113
114	0.00	-2.00	0.0	150.0	0.0000	0.0000	114
115	0.00	-3.00	0.0	150.0	0.0000	0.0000	115
116	0.00	-4.00	0.0	150.0	0.0000	0.0000	116
117	0.00	-5.00	0.0	150.0	0.0000	0.0000	117
118	0.00	-6.00	0.0	160.0	0.0000	0.0000	118
119	0.00	-7.00	0.0	170.0	0.0000	0.0000	119
120	0.00	-8.00	0.0	180.0	0.0000	0.0000	120
121	0.00	-9.00	0.0	190.0	0.0000	0.0000	121
122	0.00	-10.00	0.0	200.0	0.0000	0.0000	122
123	0.00	-15.00	0.0	200.0	0.0000	0.0000	123
124	0.00	-20.00	0.0	200.0	0.0000	0.0000	124
125	0.00	-25.00	0.0	200.0	0.0000	0.0000	125
126	0.00	-30.00	0.0	200.0	0.0000	0.0000	126
127	0.00	-40.00	0.0	200.0	0.0000	0.0000	127
128	0.00	-50.00	0.0	200.0	0.0000	0.0000	128

Susitna DEIS Comments
Willow Site Coal Fired Plant
Worst Case Impacts for SO2 Using Worst Case Coal

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 84/ 1 : HOUR 13

RECEPTOR NO.	NAME	EAST COORD	NORTH COORD	RECEPTOR HT ABV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1		0.38	0.92	0.0	170.0	0.0000	0.0000	16
2		0.77	1.85	0.0	200.0	0.0000	0.0000	17
3		1.15	2.77	0.0	200.0	0.0000	0.0000	18
4		1.53	3.70	0.0	200.0	0.0000	0.0000	19
5		1.91	4.62	0.0	200.0	0.0000	0.0000	20
6		2.30	5.54	0.0	200.0	0.0000	0.0000	21
7		2.68	6.47	0.0	200.0	0.0000	0.0000	22
8		3.06	7.39	0.0	200.0	0.0000	0.0000	23
9		3.44	8.31	0.0	200.0	0.0000	0.0000	24
10		3.83	9.24	0.0	200.0	0.0000	0.0000	25
11		5.74	13.86	0.0	250.0	0.0000	0.0000	26
12		7.76	18.48	0.0	400.0	0.0000	0.0000	27
13		9.57	23.10	0.0	400.0	0.0000	0.0000	28
14		11.48	27.72	0.0	400.0	0.0000	0.0000	29
15		15.31	36.96	0.0	400.0	0.0000	0.0000	30
16		19.13	45.19	0.0	400.0	0.0000	0.0000	31
17		0.71	0.71	0.0	150.0	0.0000	0.0000	32
18		1.41	1.41	0.0	200.0	0.0000	0.0000	33
19		2.12	2.12	0.0	200.0	0.0000	0.0000	34
20		2.83	2.83	0.0	200.0	0.0000	0.0000	35
21		3.54	3.54	0.0	200.0	0.0000	0.0000	36
22		4.24	4.24	0.0	200.0	0.0000	0.0000	37
23		4.95	4.95	0.0	200.0	0.0000	0.0000	38
24		5.66	5.66	0.0	200.0	0.0000	0.0000	39
25		6.36	6.36	0.0	200.0	0.0000	0.0000	40
26		7.07	7.07	0.0	300.0	0.0000	0.0000	41
27		10.61	10.61	0.0	400.0	0.0000	0.0000	42
28**		14.14	14.14	0.0	750.0	0.0000	0.0000	43
29**		17.68	17.68	0.0	1250.0	0.0000	0.0000	44
30**		21.21	21.21	0.0	600.0	0.0000	0.0000	45
31		28.28	28.28	0.0	400.0	0.0000	0.0000	46
32		35.36	35.36	0.0	400.0	0.0000	0.0000	47
33		0.92	0.38	0.0	150.0	0.0000	0.0000	48
34		1.85	0.77	0.0	200.0	0.0000	0.0000	49
35		2.77	1.15	0.0	200.0	0.0000	0.0000	50
36		3.70	1.53	0.0	200.0	0.0000	0.0000	51
37		4.62	1.91	0.0	200.0	0.0000	0.0000	52
38		5.54	2.30	0.0	200.0	0.0000	0.0000	53
39		6.47	2.68	0.0	200.0	0.0000	0.0000	54
40		7.39	3.06	0.0	200.0	0.0000	0.0000	55
41		8.31	3.44	0.0	200.0	0.0000	0.0000	56
42		9.24	3.83	0.0	300.0	0.0000	0.0000	57
43**		13.86	5.74	0.0	600.0	0.0000	0.0000	58
44**		18.48	7.65	0.0	1800.0	0.0000	0.0000	59
45**		23.10	9.57	0.0	3000.0	0.0000	0.0000	60
46**		27.72	11.48	0.0	3500.0	0.0000	0.0000	61
47**		36.96	15.31	0.0	4000.0	0.0000	0.0000	62
48**		46.19	19.13	0.0	2000.0	0.0000	0.0000	63
49		1.00	0.00	0.0	150.0	0.0000	0.0000	64

50	2.00	0.00	0.0	150.0	0.0000	0.0000	15
51	3.00	0.00	0.0	200.0	0.0000	0.0000	14
52	4.00	0.00	0.0	200.0	0.0000	0.0000	13
53	5.00	0.00	0.0	200.0	0.0000	0.0000	12
54	6.00	0.00	0.0	200.0	0.0000	0.0005	11
55	7.00	0.00	0.0	200.0	0.0000	0.0028	10
56	8.00	0.00	0.0	200.0	0.0000	0.0091	9
57	9.00	0.00	0.0	200.0	0.0000	0.0220	8
58	10.00	0.00	0.0	300.0	0.0000	0.0688	7
59**	15.00	0.00	0.0	750.0	0.0000	1.2000	3
60**	20.00	0.00	0.0	1600.0	0.0000	3.7305	1
61**	25.00	0.00	0.0	2000.0	0.0000	2.5009	2
62**	30.00	0.00	0.0	3000.0	0.0000	0.6078	4
63**	40.00	0.00	0.0	3600.0	0.0000	0.1893	5
64**	50.00	0.00	0.0	4000.0	0.0000	0.0971	6
65	0.92	-0.38	0.0	150.0	0.0000	0.0000	65
66	1.85	-0.77	0.0	160.0	0.0000	0.0000	66
67	2.77	-1.15	0.0	170.0	0.0000	0.0000	67
68	3.70	-1.53	0.0	180.0	0.0000	0.0000	68
69	4.62	-1.91	0.0	190.0	0.0000	0.0000	69
70	5.54	-2.30	0.0	200.0	0.0000	0.0000	70
71	6.47	-2.68	0.0	200.0	0.0000	0.0000	71
72	7.39	-3.06	0.0	200.0	0.0000	0.0000	72
73	8.31	-3.44	0.0	200.0	0.0000	0.0000	73
74	9.24	-3.83	0.0	200.0	0.0000	0.0000	74
75**	13.86	-5.74	0.0	600.0	0.0000	0.0000	75
76**	18.48	-7.65	0.0	1400.0	0.0000	0.0000	76
77**	23.10	-9.57	0.0	1600.0	0.0000	0.0000	77
78**	27.72	-11.48	0.0	3000.0	0.0000	0.0000	78
79**	36.96	-15.31	0.0	1000.0	0.0000	0.0000	79
80**	46.19	-19.13	0.0	600.0	0.0000	0.0000	80
81	0.71	-0.71	0.0	150.0	0.0000	0.0000	81
82	1.41	-1.41	0.0	150.0	0.0000	0.0000	82
83	2.12	-2.12	0.0	160.0	0.0000	0.0000	83
84	2.83	-2.83	0.0	170.0	0.0000	0.0000	84
85	3.54	-3.54	0.0	180.0	0.0000	0.0000	85
86	4.24	-4.24	0.0	190.0	0.0000	0.0000	86
87	4.95	-4.95	0.0	200.0	0.0000	0.0000	87
88	5.66	-5.66	0.0	200.0	0.0000	0.0000	88
89	6.36	-6.36	0.0	200.0	0.0000	0.0000	89
90	7.07	-7.07	0.0	200.0	0.0000	0.0000	90
91	10.61	-10.61	0.0	400.0	0.0000	0.0000	91
92**	14.14	-14.14	0.0	700.0	0.0000	0.0000	92
93**	17.68	-17.68	0.0	600.0	0.0000	0.0000	93
94	21.21	-21.21	0.0	300.0	0.0000	0.0000	94
95	28.28	-28.28	0.0	300.0	0.0000	0.0000	95
96 *	35.36	-35.36	0.0	20.0	0.0000	0.0000	96
97	0.38	-0.92	0.0	150.0	0.0000	0.0000	97
98	0.77	-1.85	0.0	150.0	0.0000	0.0000	98
99	1.15	-2.77	0.0	150.0	0.0000	0.0000	99
100	1.53	-3.70	0.0	150.0	0.0000	0.0000	100
101	1.91	-4.62	0.0	160.0	0.0000	0.0000	101
102	2.30	-5.54	0.0	170.0	0.0000	0.0000	102
103	2.68	-6.47	0.0	180.0	0.0000	0.0000	103
104	3.06	-7.39	0.0	190.0	0.0000	0.0000	104
105	3.44	-8.31	0.0	200.0	0.0000	0.0000	105
106	3.83	-9.24	0.0	200.0	0.0000	0.0000	106
107	5.74	-13.86	0.0	200.0	0.0000	0.0000	107
108	7.76	-18.48	0.0	200.0	0.0000	0.0000	108
109	9.57	-23.10	0.0	200.0	0.0000	0.0000	109
110	11.48	-27.72	0.0	150.0	0.0000	0.0000	110

111 *	15.31	-36.96	0.0	100.0	0.0000	0.0000	111
112 *	19.13	-46.19	0.0	10.0	0.0000	0.0000	112
113	0.00	-1.00	0.0	150.0	0.0000	0.0000	113
114	0.00	-2.00	0.0	150.0	0.0000	0.0000	114
115	0.00	-3.00	0.0	150.0	0.0000	0.0000	115
116	0.00	-4.00	0.0	150.0	0.0000	0.0000	116
117	0.00	-5.00	0.0	150.0	0.0000	0.0000	117
118	0.00	-6.00	0.0	160.0	0.0000	0.0000	118
119	0.00	-7.00	0.0	170.0	0.0000	0.0000	119
120	0.00	-8.00	0.0	180.0	0.0000	0.0000	120
121	0.00	-9.00	0.0	190.0	0.0000	0.0000	121
122	0.00	-10.00	0.0	200.0	0.0000	0.0000	122
123	0.00	-15.00	0.0	200.0	0.0000	0.0000	123
124	0.00	-20.00	0.0	200.0	0.0000	0.0000	124
125	0.00	-25.00	0.0	200.0	0.0000	0.0000	125
126	0.00	-30.00	0.0	200.0	0.0000	0.0000	126
127	0.00	-40.00	0.0	200.0	0.0000	0.0000	127
128	0.00	-50.00	0.0	200.0	0.0000	0.0000	128

Susitna DEIS Comments
Willow Site Coal Fired Plant
Worst Case Impacts for SO2 Using Worst Case Coal

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 84/ 1 : HOUR 14

RECEPTOR NO.	NAME	EAST COORD	NORTH COORD	RECEPTOR HT ABV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1		0.38	0.92	0.0	170.0	0.0000	0.0000	16
2		0.77	1.85	0.0	200.0	0.0000	0.0000	17
3		1.15	2.77	0.0	200.0	0.0000	0.0000	18
4		1.53	3.70	0.0	200.0	0.0000	0.0000	19
5		1.91	4.62	0.0	200.0	0.0000	0.0000	20
6		2.30	5.54	0.0	200.0	0.0000	0.0000	21
7		2.68	6.47	0.0	200.0	0.0000	0.0000	22
8		3.06	7.39	0.0	200.0	0.0000	0.0000	23
9		3.44	8.31	0.0	200.0	0.0000	0.0000	24
10		3.83	9.24	0.0	200.0	0.0000	0.0000	25
11		5.74	13.86	0.0	250.0	0.0000	0.0000	26
12		7.76	18.48	0.0	400.0	0.0000	0.0000	27
13		9.57	23.10	0.0	400.0	0.0000	0.0000	28
14		11.48	27.72	0.0	400.0	0.0000	0.0000	29
15		15.31	36.96	0.0	400.0	0.0000	0.0000	30
16		19.13	46.19	0.0	400.0	0.0000	0.0000	31
17		0.71	0.71	0.0	150.0	0.0000	0.0000	32
18		1.41	1.41	0.0	200.0	0.0000	0.0000	33
19		2.12	2.12	0.0	200.0	0.0000	0.0000	34
20		2.83	2.83	0.0	200.0	0.0000	0.0000	35
21		3.54	3.54	0.0	200.0	0.0000	0.0000	36
22		4.24	4.24	0.0	200.0	0.0000	0.0000	37
23		4.95	4.95	0.0	200.0	0.0000	0.0000	38
24		5.66	5.66	0.0	200.0	0.0000	0.0000	39
25		6.36	6.36	0.0	200.0	0.0000	0.0000	40
26		7.07	7.07	0.0	300.0	0.0000	0.0000	41
27		10.61	10.61	0.0	400.0	0.0000	0.0000	42
28**		14.14	14.14	0.0	750.0	0.0000	0.0000	43
29**		17.68	17.68	0.0	1250.0	0.0000	0.0000	44
30**		21.21	21.21	0.0	600.0	0.0000	0.0000	45
31		28.28	28.28	0.0	400.0	0.0000	0.0000	46
32		35.36	35.36	0.0	400.0	0.0000	0.0000	47
33		0.92	0.38	0.0	150.0	0.0000	0.0000	48
34		1.85	0.77	0.0	200.0	0.0000	0.0000	49
35		2.77	1.15	0.0	200.0	0.0000	0.0000	50
36		3.70	1.53	0.0	200.0	0.0000	0.0000	51
37		4.62	1.91	0.0	200.0	0.0000	0.0000	52
38		5.54	2.30	0.0	200.0	0.0000	0.0000	53
39		6.47	2.68	0.0	200.0	0.0000	0.0000	54
40		7.39	3.06	0.0	200.0	0.0000	0.0000	55
41		8.31	3.44	0.0	200.0	0.0000	0.0000	56
42		9.24	3.83	0.0	300.0	0.0000	0.0000	57
43**		13.86	5.74	0.0	600.0	0.0000	0.0000	58
44**		18.48	7.65	0.0	1800.0	0.0000	0.0000	59
45**		23.10	9.57	0.0	3000.0	0.0000	0.0000	60
46**		27.72	11.48	0.0	3500.0	0.0000	0.0000	61
47**		36.96	15.31	0.0	4000.0	0.0000	0.0000	62
48**		46.19	19.13	0.0	2000.0	0.0000	0.0000	63
49		1.00	0.00	0.0	150.0	0.0000	0.0000	64

44

50	2.00	0.00	0.0	150.0	0.0000	0.0000	65
51	3.00	0.00	0.0	200.0	0.0000	0.0000	66
52	4.00	0.00	0.0	200.0	0.0000	0.0000	67
53	5.00	0.00	0.0	200.0	0.0000	0.0000	68
54	6.00	0.00	0.0	200.0	0.0000	0.0000	69
55	7.00	0.00	0.0	200.0	0.0000	0.0000	70
56	8.00	0.00	0.0	200.0	0.0000	0.0000	71
57	9.00	0.00	0.0	200.0	0.0000	0.0000	72
58	10.00	0.00	0.0	300.0	0.0000	0.0000	73
59**	15.00	0.00	0.0	750.0	0.0000	0.0000	74
60**	20.00	0.00	0.0	1600.0	0.0000	0.0000	75
61**	25.00	0.00	0.0	2000.0	0.0000	0.0000	76
62**	30.00	0.00	0.0	3000.0	0.0000	0.0000	77
63**	40.00	0.00	0.0	3600.0	0.0000	0.0000	78
64**	50.00	0.00	0.0	4000.0	0.0000	0.0000	79
65	0.92	-0.38	0.0	150.0	0.0000	0.0000	80
66	1.85	-0.77	0.0	160.0	0.0000	0.0000	15
67	2.77	-1.15	0.0	170.0	0.0000	0.0000	14
68	3.70	-1.53	0.0	180.0	0.0000	0.0000	13
69	4.62	-1.91	0.0	190.0	0.0000	0.0001	12
70	5.54	-2.30	0.0	200.0	0.0000	0.0009	11
71	6.47	-2.68	0.0	200.0	0.0000	0.0044	10
72	7.39	-3.06	0.0	200.0	0.0000	0.0135	9
73	8.31	-3.44	0.0	200.0	0.0000	0.0308	8
74	9.24	-3.83	0.0	200.0	0.0000	0.0576	7
75**	13.86	-5.74	0.0	600.0	0.0000	0.8761	4
76**	18.48	-7.65	0.0	1400.0	0.0000	3.3332	1
77**	23.10	-9.57	0.0	1600.0	0.0000	2.5641	2
78**	27.72	-11.48	0.0	3000.0	0.0000	0.5402	6
79**	36.96	-15.31	0.0	1000.0	0.0000	1.0276	3
80**	46.19	-19.13	0.0	600.0	0.0000	0.6979	5
81	0.71	-0.71	0.0	150.0	0.0000	0.0000	81
82	1.41	-1.41	0.0	150.0	0.0000	0.0000	82
83	2.12	-2.12	0.0	160.0	0.0000	0.0000	83
84	2.83	-2.83	0.0	170.0	0.0000	0.0000	84
85	3.54	-3.54	0.0	180.0	0.0000	0.0000	85
86	4.24	-4.24	0.0	190.0	0.0000	0.0000	86
87	4.95	-4.95	0.0	200.0	0.0000	0.0000	87
88	5.66	-5.66	0.0	200.0	0.0000	0.0000	88
89	6.36	-6.36	0.0	200.0	0.0000	0.0000	89
90	7.07	-7.07	0.0	200.0	0.0000	0.0000	90
91	10.61	-10.61	0.0	400.0	0.0000	0.0000	91
92**	14.14	-14.14	0.0	700.0	0.0000	0.0000	92
93**	17.68	-17.68	0.0	600.0	0.0000	0.0000	93
94	21.21	-21.21	0.0	300.0	0.0000	0.0000	94
95	28.28	-28.28	0.0	300.0	0.0000	0.0000	95
96 *	35.36	-35.36	0.0	20.0	0.0000	0.0000	96
97	0.38	-0.92	0.0	150.0	0.0000	0.0000	97
98	0.77	-1.85	0.0	150.0	0.0000	0.0000	98
99	1.15	-2.77	0.0	150.0	0.0000	0.0000	99
100	1.53	-3.70	0.0	150.0	0.0000	0.0000	100
101	1.91	-4.62	0.0	160.0	0.0000	0.0000	101
102	2.30	-5.54	0.0	170.0	0.0000	0.0000	102
103	2.68	-6.47	0.0	180.0	0.0000	0.0000	103
104	3.06	-7.39	0.0	190.0	0.0000	0.0000	104
105	3.44	-8.31	0.0	200.0	0.0000	0.0000	105
106	3.83	-9.24	0.0	200.0	0.0000	0.0000	106
107	5.74	-13.86	0.0	200.0	0.0000	0.0000	107
108	7.76	-18.48	0.0	200.0	0.0000	0.0000	108
109	9.57	-23.10	0.0	200.0	0.0000	0.0000	109
110	11.48	-27.72	0.0	150.0	0.0000	0.0000	110

111 *	15.31	-36.96	0.0	100.0	0.0000	0.0000	111
112 *	19.13	-46.19	0.0	10.0	0.0000	0.0000	112
113	0.00	-1.00	0.0	150.0	0.0000	0.0000	113
114	0.00	-2.00	0.0	150.0	0.0000	0.0000	114
115	0.00	-3.00	0.0	150.0	0.0000	0.0000	115
116	0.00	-4.00	0.0	150.0	0.0000	0.0000	116
117	0.00	-5.00	0.0	150.0	0.0000	0.0000	117
118	0.00	-6.00	0.0	160.0	0.0000	0.0000	118
119	0.00	-7.00	0.0	170.0	0.0000	0.0000	119
120	0.00	-8.00	0.0	180.0	0.0000	0.0000	120
121	0.00	-9.00	0.0	190.0	0.0000	0.0000	121
122	0.00	-10.00	0.0	200.0	0.0000	0.0000	122
123	0.00	-15.00	0.0	200.0	0.0000	0.0000	123
124	0.00	-20.00	0.0	200.0	0.0000	0.0000	124
125	0.00	-25.00	0.0	200.0	0.0000	0.0000	125
126	0.00	-30.00	0.0	200.0	0.0000	0.0000	126
127	0.00	-40.00	0.0	200.0	0.0000	0.0000	127
128	0.00	-50.00	0.0	200.0	0.0000	0.0000	128

Susitna DEIS Comments
Willow Site Coal Fired Plant
Worst Case Impacts for SO2 Using Worst Case Coal

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 84/ 1 : HOUR 15

RECEPTOR NO.	NAME	EAST COORD	NORTH COORD	RECEPTOR HT ABV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1		0.38	0.92	0.0	170.0	0.0000	0.0000	16
2		0.77	1.85	0.0	200.0	0.0000	0.0000	17
3		1.15	2.77	0.0	200.0	0.0000	0.0000	18
4		1.53	3.70	0.0	200.0	0.0000	0.0000	19
5		1.91	4.62	0.0	200.0	0.0000	0.0000	20
6		2.30	5.54	0.0	200.0	0.0000	0.0000	21
7		2.68	6.47	0.0	200.0	0.0000	0.0000	22
8		3.06	7.39	0.0	200.0	0.0000	0.0000	23
9		3.44	8.31	0.0	200.0	0.0000	0.0000	24
10		3.83	9.24	0.0	200.0	0.0000	0.0000	25
11		5.74	13.86	0.0	250.0	0.0000	0.0000	26
12		7.76	18.48	0.0	400.0	0.0000	0.0000	27
13		9.57	23.10	0.0	400.0	0.0000	0.0000	28
14		11.48	27.72	0.0	400.0	0.0000	0.0000	29
15		15.31	36.96	0.0	400.0	0.0000	0.0000	30
16		19.13	46.19	0.0	400.0	0.0000	0.0000	31
17		0.71	0.71	0.0	150.0	0.0000	0.0000	32
18		1.41	1.41	0.0	200.0	0.0000	0.0000	33
19		2.12	2.12	0.0	200.0	0.0000	0.0000	34
20		2.83	2.83	0.0	200.0	0.0000	0.0000	35
21		3.54	3.54	0.0	200.0	0.0000	0.0000	36
22		4.24	4.24	0.0	200.0	0.0000	0.0000	37
23		4.95	4.95	0.0	200.0	0.0000	0.0000	38
24		5.66	5.66	0.0	200.0	0.0000	0.0000	39
25		6.36	6.36	0.0	200.0	0.0000	0.0000	40
26		7.07	7.07	0.0	300.0	0.0000	0.0000	41
27		10.61	10.61	0.0	400.0	0.0000	0.0000	42
28**		14.14	14.14	0.0	750.0	0.0000	0.0000	43
29**		17.68	17.68	0.0	1250.0	0.0000	0.0000	44
30**		21.21	21.21	0.0	600.0	0.0000	0.0000	45
31		28.28	28.28	0.0	400.0	0.0000	0.0000	46
32		35.36	35.36	0.0	400.0	0.0000	0.0000	47
33		0.92	0.38	0.0	150.0	0.0000	0.0000	48
34		1.85	0.77	0.0	200.0	0.0000	0.0000	49
35		2.77	1.15	0.0	200.0	0.0000	0.0000	50
36		3.70	1.53	0.0	200.0	0.0000	0.0000	51
37		4.62	1.91	0.0	200.0	0.0000	0.0000	52
38		5.54	2.30	0.0	200.0	0.0000	0.0000	53
39		6.47	2.68	0.0	200.0	0.0000	0.0000	54
40		7.39	3.06	0.0	200.0	0.0000	0.0000	55
41		8.31	3.44	0.0	200.0	0.0000	0.0000	56
42		9.24	3.83	0.0	300.0	0.0000	0.0000	57
43**		13.86	5.74	0.0	600.0	0.0000	0.0000	58
44**		18.48	7.65	0.0	1800.0	0.0000	0.0000	59
45**		23.10	9.57	0.0	3000.0	0.0000	0.0000	60
46**		27.72	11.48	0.0	3500.0	0.0000	0.0000	61
47**		36.96	15.31	0.0	4000.0	0.0000	0.0000	62
48**		46.19	19.13	0.0	2000.0	0.0000	0.0000	63
49		1.00	0.00	0.0	150.0	0.0000	0.0000	64

50	2.00	0.00	0.0	150.0	0.0000	0.0000	65
51	3.00	0.00	0.0	200.0	0.0000	0.0000	66
52	4.00	0.00	0.0	200.0	0.0000	0.0000	67
53	5.00	0.00	0.0	200.0	0.0000	0.0000	68
54	6.00	0.00	0.0	200.0	0.0000	0.0000	69
55	7.00	0.00	0.0	200.0	0.0000	0.0000	70
56	8.00	0.00	0.0	200.0	0.0000	0.0000	71
57	9.00	0.00	0.0	200.0	0.0000	0.0000	72
58	10.00	0.00	0.0	300.0	0.0000	0.0000	73
59**	15.00	0.00	0.0	750.0	0.0000	0.0000	74
60**	20.00	0.00	0.0	1600.0	0.0000	0.0000	75
61**	25.00	0.00	0.0	2000.0	0.0000	0.0000	76
62**	30.00	0.00	0.0	3000.0	0.0000	0.0000	77
63**	40.00	0.00	0.0	3600.0	0.0000	0.0000	78
64**	50.00	0.00	0.0	4000.0	0.0000	0.0000	79
65	0.92	-0.38	0.0	150.0	0.0000	0.0000	80
66	1.85	-0.77	0.0	160.0	0.0000	0.0000	81
67	2.77	-1.15	0.0	170.0	0.0000	0.0000	82
68	3.70	-1.53	0.0	180.0	0.0000	0.0000	83
69	4.62	-1.91	0.0	190.0	0.0000	0.0000	84
70	5.54	-2.30	0.0	200.0	0.0000	0.0000	85
71	6.47	-2.68	0.0	200.0	0.0000	0.0000	86
72	7.39	-3.06	0.0	200.0	0.0000	0.0000	87
73	8.31	-3.44	0.0	200.0	0.0000	0.0000	88
74	9.24	-3.83	0.0	200.0	0.0000	0.0000	89
75**	13.86	-5.74	0.0	600.0	0.0000	0.0000	90
76**	18.48	-7.65	0.0	1400.0	0.0000	0.0000	91
77**	23.10	-9.57	0.0	1600.0	0.0000	0.0000	92
78**	27.72	-11.48	0.0	3000.0	0.0000	0.0000	93
79**	36.96	-15.31	0.0	1000.0	0.0000	0.0000	94
80**	46.19	-19.13	0.0	600.0	0.0000	0.0000	95
81	0.71	-0.71	0.0	150.0	0.0000	0.0000	96
82	1.41	-1.41	0.0	150.0	0.0000	0.0000	15
83	2.12	-2.12	0.0	160.0	0.0000	0.0000	14
84	2.83	-2.83	0.0	170.0	0.0000	0.0000	13
85	3.54	-3.54	0.0	180.0	0.0000	0.0001	12
86	4.24	-4.24	0.0	190.0	0.0000	0.0008	11
87	4.95	-4.95	0.0	200.0	0.0000	0.0044	10
88	5.66	-5.66	0.0	200.0	0.0000	0.0135	9
89	6.36	-6.36	0.0	200.0	0.0000	0.0308	8
90	7.07	-7.07	0.0	200.0	0.0000	0.0576	7
91	10.61	-10.61	0.0	400.0	0.0000	0.4377	6
92**	14.14	-14.14	0.0	700.0	0.0000	1.2108	1
93**	17.68	-17.68	0.0	600.0	0.0000	0.9663	2
94	21.21	-21.21	0.0	300.0	0.0000	0.7154	3
95	28.28	-28.28	0.0	300.0	0.0000	0.7053	4
96 *	35.36	-35.36	0.0	20.0	0.0000	0.5359	5
97	0.38	-0.92	0.0	150.0	0.0000	0.0000	97
98	0.77	-1.85	0.0	150.0	0.0000	0.0000	98
99	1.15	-2.77	0.0	150.0	0.0000	0.0000	99
100	1.53	-3.70	0.0	150.0	0.0000	0.0000	100
101	1.91	-4.62	0.0	160.0	0.0000	0.0000	101
102	2.30	-5.54	0.0	170.0	0.0000	0.0000	102
103	2.68	-6.47	0.0	180.0	0.0000	0.0000	103
104	3.06	-7.39	0.0	190.0	0.0000	0.0000	104
105	3.44	-8.31	0.0	200.0	0.0000	0.0000	105
106	3.83	-9.24	0.0	200.0	0.0000	0.0000	106
107	5.74	-13.86	0.0	200.0	0.0000	0.0000	107
108	7.76	-18.48	0.0	200.0	0.0000	0.0000	108
109	9.57	-23.10	0.0	200.0	0.0000	0.0000	109
110	11.48	-27.72	0.0	150.0	0.0000	0.0000	110

111 *	15.31	-36.96	0.0	100.0	0.0000	0.0000	111
112 *	19.13	-46.19	0.0	10.0	0.0000	0.0000	112
113	0.00	-1.00	0.0	150.0	0.0000	0.0000	113
114	0.00	-2.00	0.0	150.0	0.0000	0.0000	114
115	0.00	-3.00	0.0	150.0	0.0000	0.0000	115
116	0.00	-4.00	0.0	150.0	0.0000	0.0000	116
117	0.00	-5.00	0.0	150.0	0.0000	0.0000	117
118	0.00	-6.00	0.0	160.0	0.0000	0.0000	118
119	0.00	-7.00	0.0	170.0	0.0000	0.0000	119
120	0.00	-8.00	0.0	180.0	0.0000	0.0000	120
121	0.00	-9.00	0.0	190.0	0.0000	0.0000	121
122	0.00	-10.00	0.0	200.0	0.0000	0.0000	122
123	0.00	-15.00	0.0	200.0	0.0000	0.0000	123
124	0.00	-20.00	0.0	200.0	0.0000	0.0000	124
125	0.00	-25.00	0.0	200.0	0.0000	0.0000	125
126	0.00	-30.00	0.0	200.0	0.0000	0.0000	126
127	0.00	-40.00	0.0	200.0	0.0000	0.0000	127
128	0.00	-50.00	0.0	200.0	0.0000	0.0000	128

Susitna DEIS Comments
Willow Site Coal Fired Plant
Worst Case Impacts for SO2 Using Worst Case Coal

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 84/ 1 : HOUR 16

RECEPTOR NO. NAME	EAST COORD	NORTH COORD	RECEPTOR HT ABV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1	0.38	0.92	0.0	170.0	0.0000	0.0000	16
2	0.77	1.85	0.0	200.0	0.0000	0.0000	17
3	1.15	2.77	0.0	200.0	0.0000	0.0000	18
4	1.53	3.70	0.0	200.0	0.0000	0.0000	19
5	1.91	4.62	0.0	200.0	0.0000	0.0000	20
6	2.30	5.54	0.0	200.0	0.0000	0.0000	21
7	2.68	6.47	0.0	200.0	0.0000	0.0000	22
8	3.06	7.39	0.0	200.0	0.0000	0.0000	23
9	3.44	8.31	0.0	200.0	0.0000	0.0000	24
10	3.83	9.24	0.0	200.0	0.0000	0.0000	25
11	5.74	13.86	0.0	250.0	0.0000	0.0000	26
12	7.76	18.48	0.0	400.0	0.0000	0.0000	27
13	9.57	23.10	0.0	400.0	0.0000	0.0000	28
14	11.48	27.72	0.0	400.0	0.0000	0.0000	29
15	15.31	36.96	0.0	400.0	0.0000	0.0000	30
16	19.13	46.19	0.0	400.0	0.0000	0.0000	31
17	0.71	0.71	0.0	150.0	0.0000	0.0000	32
18	1.41	1.41	0.0	200.0	0.0000	0.0000	33
19	2.12	2.12	0.0	200.0	0.0000	0.0000	34
20	2.83	2.83	0.0	200.0	0.0000	0.0000	35
21	3.54	3.54	0.0	200.0	0.0000	0.0000	36
22	4.24	4.24	0.0	200.0	0.0000	0.0000	37
23	4.95	4.95	0.0	200.0	0.0000	0.0000	38
24	5.66	5.66	0.0	200.0	0.0000	0.0000	39
25	6.36	6.36	0.0	200.0	0.0000	0.0000	40
26	7.07	7.07	0.0	300.0	0.0000	0.0000	41
27	10.61	10.61	0.0	400.0	0.0000	0.0000	42
28**	14.14	14.14	0.0	750.0	0.0000	0.0000	43
29**	17.68	17.68	0.0	1250.0	0.0000	0.0000	44
30**	21.21	21.21	0.0	600.0	0.0000	0.0000	45
31	28.28	28.28	0.0	400.0	0.0000	0.0000	46
32	35.36	35.36	0.0	400.0	0.0000	0.0000	47
33	0.92	0.38	0.0	150.0	0.0000	0.0000	48
34	1.85	0.77	0.0	200.0	0.0000	0.0000	49
35	2.77	1.15	0.0	200.0	0.0000	0.0000	50
36	3.70	1.53	0.0	200.0	0.0000	0.0000	51
37	4.62	1.91	0.0	200.0	0.0000	0.0000	52
38	5.54	2.30	0.0	200.0	0.0000	0.0000	53
39	6.47	2.68	0.0	200.0	0.0000	0.0000	54
40	7.39	3.06	0.0	200.0	0.0000	0.0000	55
41	8.31	3.44	0.0	200.0	0.0000	0.0000	56
42	9.24	3.83	0.0	300.0	0.0000	0.0000	57
43**	13.86	5.74	0.0	600.0	0.0000	0.0000	58
44**	18.48	7.65	0.0	1800.0	0.0000	0.0000	59
45**	23.10	9.57	0.0	3000.0	0.0000	0.0000	60
46**	27.72	11.48	0.0	3500.0	0.0000	0.0000	61
47**	36.96	15.31	0.0	4000.0	0.0000	0.0000	62
48**	46.19	19.13	0.0	2000.0	0.0000	0.0000	63
49	1.00	0.00	0.0	150.0	0.0000	0.0000	64

50

50	2.00	0.00	0.0	150.0	0.0000	0.0000	65
51	3.00	0.00	0.0	200.0	0.0000	0.0000	66
52	4.00	0.00	0.0	200.0	0.0000	0.0000	67
53	5.00	0.00	0.0	200.0	0.0000	0.0000	68
54	6.00	0.00	0.0	200.0	0.0000	0.0000	69
55	7.00	0.00	0.0	200.0	0.0000	0.0000	70
56	8.00	0.00	0.0	200.0	0.0000	0.0000	71
57	9.00	0.00	0.0	200.0	0.0000	0.0000	72
58	10.00	0.00	0.0	300.0	0.0000	0.0000	73
59**	15.00	0.00	0.0	750.0	0.0000	0.0000	74
60**	20.00	0.00	0.0	1600.0	0.0000	0.0000	75
61**	25.00	0.00	0.0	2000.0	0.0000	0.0000	76
62**	30.00	0.00	0.0	3000.0	0.0000	0.0000	77
63**	40.00	0.00	0.0	3600.0	0.0000	0.0000	78
64**	50.00	0.00	0.0	4000.0	0.0000	0.0000	79
65	0.92	-0.38	0.0	150.0	0.0000	0.0000	80
66	1.85	-0.77	0.0	160.0	0.0000	0.0000	81
67	2.77	-1.15	0.0	170.0	0.0000	0.0000	82
68	3.70	-1.53	0.0	180.0	0.0000	0.0000	83
69	4.62	-1.91	0.0	190.0	0.0000	0.0000	84
70	5.54	-2.30	0.0	200.0	0.0000	0.0000	85
71	6.47	-2.68	0.0	200.0	0.0000	0.0000	86
72	7.39	-3.06	0.0	200.0	0.0000	0.0000	87
73	8.31	-3.44	0.0	200.0	0.0000	0.0000	88
74	9.24	-3.83	0.0	200.0	0.0000	0.0000	89
75**	13.86	-5.74	0.0	600.0	0.0000	0.0000	90
76**	18.48	-7.65	0.0	1400.0	0.0000	0.0000	91
77**	23.10	-9.57	0.0	1600.0	0.0000	0.0000	92
78**	27.72	-11.48	0.0	3000.0	0.0000	0.0000	93
79**	36.96	-15.31	0.0	1000.0	0.0000	0.0000	94
80**	46.19	-19.13	0.0	600.0	0.0000	0.0000	95
81	0.71	-0.71	0.0	150.0	0.0000	0.0000	96
82	1.41	-1.41	0.0	150.0	0.0000	0.0000	97
83	2.12	-2.12	0.0	160.0	0.0000	0.0000	98
84	2.83	-2.83	0.0	170.0	0.0000	0.0000	99
85	3.54	-3.54	0.0	180.0	0.0000	0.0000	100
86	4.24	-4.24	0.0	190.0	0.0000	0.0000	101
87	4.95	-4.95	0.0	200.0	0.0000	0.0000	102
88	5.66	-5.66	0.0	200.0	0.0000	0.0000	103
89	6.36	-6.36	0.0	200.0	0.0000	0.0000	104
90	7.07	-7.07	0.0	200.0	0.0000	0.0000	105
91	10.61	-10.61	0.0	400.0	0.0000	0.0000	106
92**	14.14	-14.14	0.0	700.0	0.0000	0.0000	107
93**	17.68	-17.68	0.0	600.0	0.0000	0.0000	108
94	21.21	-21.21	0.0	300.0	0.0000	0.0000	109
95	28.28	-28.28	0.0	300.0	0.0000	0.0000	110
96 *	35.36	-35.36	0.0	20.0	0.0000	0.0000	111
97	0.38	-0.92	0.0	150.0	0.0000	0.0000	112
98	0.77	-1.85	0.0	150.0	0.0000	0.0000	15
99	1.15	-2.77	0.0	150.0	0.0000	0.0000	14
100	1.53	-3.70	0.0	150.0	0.0000	0.0000	13
101	1.91	-4.62	0.0	160.0	0.0000	0.0006	12
102	2.30	-5.54	0.0	170.0	0.0000	0.0046	11
103	2.68	-6.47	0.0	180.0	0.0000	0.0174	10
104	3.06	-7.39	0.0	190.0	0.0000	0.0442	9
105	3.44	-8.31	0.0	200.0	0.0000	0.0873	8
106	3.83	-9.24	0.0	200.0	0.0000	0.1420	7
107	5.74	-13.86	0.0	200.0	0.0000	0.4487	6
108	7.76	-18.48	0.0	200.0	0.0000	0.6755	4
109	9.57	-23.10	0.0	200.0	0.0000	0.7830	2
110	11.48	-27.72	0.0	150.0	0.0000	0.8113	1

111 *	15.31	-36.96	0.0	100.0	0.0000	0.6991	3
112 *	19.13	-46.19	0.0	10.0	0.0000	0.5603	5
113	0.00	-1.00	0.0	150.0	0.0000	0.0000	113
114	0.00	-2.00	0.0	150.0	0.0000	0.0000	114
115	0.00	-3.00	0.0	150.0	0.0000	0.0000	115
116	0.00	-4.00	0.0	150.0	0.0000	0.0000	116
117	0.00	-5.00	0.0	150.0	0.0000	0.0000	117
118	0.00	-6.00	0.0	160.0	0.0000	0.0000	118
119	0.00	-7.00	0.0	170.0	0.0000	0.0000	119
120	0.00	-8.00	0.0	180.0	0.0000	0.0000	120
121	0.00	-9.00	0.0	190.0	0.0000	0.0000	121
122	0.00	-10.00	0.0	200.0	0.0000	0.0000	122
123	0.00	-15.00	0.0	200.0	0.0000	0.0000	123
124	0.00	-20.00	0.0	200.0	0.0000	0.0000	124
125	0.00	-25.00	0.0	200.0	0.0000	0.0000	125
126	0.00	-30.00	0.0	200.0	0.0000	0.0000	126
127	0.00	-40.00	0.0	200.0	0.0000	0.0000	127
128	0.00	-50.00	0.0	200.0	0.0000	0.0000	128

COMPLEX I - VERSION 80353

Susitna DEIS Comments
Willow Site Coal Fired Plant
Worst Case Impacts for SO2 Using Worst Case Coal

COMPLEXI (VERSION 81032)
AN AIR QUALITY DISPERSION MODEL IN
SECTION 2. NON-GUIDELINE MODELS.
IN UNAMAP (VERSION 5) DEC 82
SOURCE: FILE 16 ON UNAMAP MAGNETIC TAPE FROM NTIS.

GENERAL INPUT INFORMATION

THIS RUN OF COMPLEX I -VERSION 80353 IS FOR THE POLLUTANT SO2 FOR 16 1-HOUR PERIODS.
CONCENTRATION ESTIMATES BEGIN ON HOUR- 1,JULIAN DAY- 1, YEAR-1984.
A FACTOR OF 1.0000000 HASBEEN SPECIFIED TO CONVERT USER LENGTH UNITS TO KILOMETERS.
0 SIGNIFICANT SOURCES ARE TO BE CONSIDERED.
THIS RUN WILL NOT CONSIDER ANY POLLUTANT LOSS.
A FACTOR OF 0.3048000 HAS BEEN SPECIFIED TO CONVERT USER HEIGHT UNITS TO METERS.

OPTION	OPTION LIST	OPTION SPECIFICATION : 0= IGNORE OPTION 1= USE OPTION
	TECHNICAL OPTIONS	
1	TERRAIN ADJUSTMENTS	1
2	DO NOT INCLUDE STACK DOWNWASH CALCULATIONS	1
3	DO NOT INCLUDE GRADUAL PLUME RISE CALCULATIONS	1
4	CALCULATE INITIAL PLUME SIZE	0
	INPUT OPTIONS	
5	READ MET DATA FROM CARDS	1
6	READ HOURLY EMISSIONS	0
7	SPECIFY SIGNIFICANT SOURCES	0
8	READ RADIAL DISTANCES TO GENERATE RECEPTORS	0
	PRINTED OUTPUT OPTIONS	
9	DELETE EMISSIONS WITHHEIGHT TABLE	1
10	DELETE MET DATA SUMMARY FOR AVG PERIOD	1
11	DELETE HOURLY CONTRIBUTIONS	1
12	DELETE MET DATA ON HOURLY CONTRIBUTIONS	1
13	DELETE FINAL PLUME RISE CALC ON HRLY CONTRIBUTIONS	1
14	DELETE HOURLY SUMMARY	0
15	DELETE MET DATA ON HRLY SUMMARY	0
16	DELETE FINAL PLUME RISE CALC ON HRLY SUMMARY	0
17	DELETE AVG-PERIOD CONTRIBUTIONS	1
18	DELETE AVERAGING PERIOD SUMMARY	1
19	DELETE AVG CONCENTRATIONS AND HI-STABLES	1
	OTHER CONTROL AND OUTPUT OPTIONS	
20	RUN IS PART OF A SEGMENTED RUN	0
21	WRITE PARTIAL CONC TO DISK OR TAPE	0
22	WRITE HOURLY CONC TO DISK OR TAPE	0
23	WRITE AVG-PERIOD CONC TO DISKOR TAPE	0
24	PUNCH AVG-PERIOD CONC ONTO CARDS	0
25	COMPLEX TERRAIN OPTION	3

ANEMOMETER HEIGHT IS: 10.00
EXPONENTS FOR POWER- LAW WIND INCREASE WITH HEIGHT ARE:0.07,0.07,0.10,0.15,0.35,0.55
TERRAIN ADJUSTMENTS ARE: 1.000,1.000,1.000,1.000,0.000,0.000 ZMIN IS 10.0

53

POINT SOURCE INFORMATION

SOURCE	EAST COORD (USER UNITS)	NORTH COORD (USER UNITS)	SO2(G/SEC) EMISSIONS	PART(G/SEC) EMISSIONS	STACK HT(M)	STACK TEMP(K)	STACK DIAM(M)	STACK VEL(M/SEC)	POTEN. IMPACT (MICRO G/M**3)	EFF HT(M)	GRD-LVL ELEV USER HT UNITS	BUOY FLUX F M**4/S**3
1 two units	0.00	0.00	57.30	0.00	134.0	361.0	5.5	20.1	15.20	513.11	150.00	279.76

ADDITIONAL INFORMATION ON SOURCES.

EMISSION INFORMATION FOR 1 (NPT) POINT SOURCES HAS BEEN INPUT
0 SIGNIFICANT POINT SOURCES(NSIGP) ARE TO BE USED FOR THIS RUN
THE ORDER OF SIGNIFICANCE(IMPS) FOR 25 OR LESS POINT SOURCES USED IN THIS RUN AS LISTED BY POINTSOURCE NUMBER:

RECEPTOR INFORMATION

RECEPTOR	IDENTIFICATION	EAST COORD (USER UNITS)	NORTH COORD (USER UNITS)	RECEPTOR HT ABV LOCAL GRD LVL (METERS)	RECEPTOR GROUND LEVEL ELEVATION (USER HT UNITS)
1 *		-0.383	-0.924	0.0	140.0
2 *		-0.765	-1.848	0.0	130.0
3 *		-1.148	-2.772	0.0	120.0
4 *		-1.531	-3.695	0.0	110.0
5 *		-1.913	-4.619	0.0	100.0
6 *		-2.296	-5.543	0.0	90.0
7 *		-2.679	-6.467	0.0	80.0
8 *		-3.061	-7.391	0.0	80.0
9 *		-3.444	-8.315	0.0	80.0
10 *		-3.827	-9.239	0.0	80.0
11		-5.740	-13.858	0.0	150.0
12		-7.764	-18.478	0.0	150.0
13 *		-9.567	-23.097	0.0	140.0
14 *		-11.481	-27.716	0.0	130.0
15 *		-15.307	-36.955	0.0	100.0
16 *		-19.134	-46.194	0.0	30.0
17 *		-0.707	-0.707	0.0	10 0
18 *		-1.414	-1.414	0.0	100.0
19 *		-2.121	-2.121	0.0	100.0
20 *		-2.828	-2.819	0.0	100.0
21 *		-3.536	-3.536	0.0	100.0
22 *		-4.243	-4.243	0.0	100.0
23 *		-4.950	-4.950	0.0	100.0
24 *		-5.657	-5.657	0.0	100.0
25 *		-6.364	-6.364	0.0	100.0
26 *		-7.071	-7.071	0.0	100.0
27 *		-10.607	-10.607	0.0	100.0
28		-14.142	-14.142	0.0	200.0
29		-17.678	-17.678	0.0	200.0
30 *		-21.213	-21.213	0.0	100.0
31 *		-28.284	-28.284	0.0	100.0
32**		-35.355	-35.355	0.0	3000.0
33 *		-0.924	-0.383	0.0	100.0
34 *		-1.848	-0.765	0.0	100.0
35 *		-2.772	-1.148	0.0	100.0
36 *		-3.695	-1.531	0.0	100.0
37 *		-4.619	-1.913	0.0	100.0
38 *		-5.543	-2.296	0.0	100.0
39 *		-6.467	-2.679	0.0	100.0

40 *	-7.391	-3.062	0.0	100.0
41 *	-8.315	-3.444	0.0	100.0
42 *	-9.239	-3.827	0.0	100.0
43	-13.858	-5.740	0.0	200.0
44	-18.478	-7.654	0.0	200.0
45	-23.097	-9.567	0.0	200.0
46 *	-27.716	-11.481	0.0	100.0
47	-36.955	-15.307	0.0	200.0
48**	-46.194	-19.134	0.0	600.0
49 *	-1.000	0.000	0.0	100.0
50 *	-2.000	0.000	0.0	100.0
51 *	-3.000	0.000	0.0	100.0
52 *	-4.000	0.000	0.0	100.0
53 *	-5.000	0.000	0.0	100.0
54 *	-6.000	0.000	0.0	100.0
55 *	-7.000	0.000	0.0	100.0
56 *	-8.000	0.000	0.0	100.0
57 *	-9.000	0.000	0.0	100.0
58 *	-10.000	0.000	0.0	100.0
59	-15.000	0.000	0.0	200.0
60	-20.000	0.000	0.0	200.0
61	-25.000	0.000	0.0	200.0
62 *	-30.000	0.000	0.0	130.0
63	-40.000	0.000	0.0	200.0
64	-50.000	0.000	0.0	200.0
65 *	-0.924	0.383	0.0	100.0
66 *	-1.848	0.765	0.0	100.0
67 *	-2.772	1.148	0.0	100.0
68 *	-3.696	1.531	0.0	100.0
69 *	-4.620	1.913	0.0	100.0
70 *	-5.543	2.296	0.0	100.0
71 *	-6.467	2.679	0.0	100.0
72 *	-7.391	3.061	0.0	100.0
73 *	-8.315	3.444	0.0	100.0
74 *	-9.239	3.827	0.0	100.0
75	-13.858	5.740	0.0	180.0
76	-18.478	7.654	0.0	200.0
77	-23.097	9.567	0.0	400.0
78	-27.716	11.481	0.0	300.0
79	-36.955	15.307	0.0	200.0
80	-46.194	19.134	0.0	200.0
81	-0.707	0.707	0.0	150.0
82 *	-1.414	1.414	0.0	100.0
83 *	-2.121	2.121	0.0	100.0
84 *	-2.829	2.828	0.0	100.0
85 *	-3.536	3.535	0.0	100.0
86 *	-4.243	4.242	0.0	100.0
87 *	-4.950	4.950	0.0	100.0
88 *	-5.657	5.657	0.0	100.0
89	-6.364	6.364	0.0	200.0
90	-7.071	7.071	0.0	200.0
91	-10.607	10.607	0.0	200.0
92	-14.142	14.142	0.0	200.0
93	-17.678	17.678	0.0	200.0
94	-21.213	21.213	0.0	200.0
95	-28.284	28.284	0.0	200.0
96	-35.355	35.355	0.0	200.0
97 *	-0.383	0.924	0.0	100.0
98 *	-0.765	1.848	0.0	100.0
99 *	-1.148	2.772	0.0	100.0
100 *	-1.531	3.695	0.0	100.0

101 *	-1.914	4.619	0.0	100.0
102 *	-2.296	5.543	0.0	100.0
103 *	-2.679	6.467	0.0	100.0
104 *	-3.062	7.391	0.0	100.0
105	-3.444	8.315	0.0	200.0
106	-3.827	9.239	0.0	200.0
107	-5.740	13.858	0.0	200.0
108	-7.764	18.478	0.0	200.0
109	-9.567	23.097	0.0	200.0
110	-11.481	27.716	0.0	200.0
111	-15.307	36.955	0.0	200.0
112	-19.134	46.194	0.0	200.0
113 *	0.000	1.000	0.0	100.0
114 *	0.000	2.000	0.0	100.0
115 *	0.000	3.000	0.0	100.0
116 *	0.000	4.000	0.0	100.0
117 *	0.000	5.000	0.0	100.0
118 *	0.000	6.000	0.0	100.0
119 *	0.000	7.000	0.0	100.0
120 *	0.000	8.000	0.0	100.0
121 *	0.000	9.000	0.0	100.0
122 *	0.000	10.000	0.0	100.0
123 *	0.000	15.000	0.0	100.0
124 *	0.000	20.000	0.0	100.0
125 *	0.000	25.000	0.0	100.0
126	0.000	30.000	0.0	200.0
127	0.000	40.000	0.0	200.0
128	0.000	50.000	0.0	200.0

* ONE ASTERISK INDICATES THAT THE ASSOCIATED RECEPTOR(S) HAVE A GROUND LEVEL ELEVATION LOWER THAN THE LOWEST SOURCE BASE ELEVATION.
CAUTION SHOULD BE USED IN INTERPRETING CONCENTRATIONS FOR THESE RECEPTORS.
** TWO ASTERISKS INDICATE THAT THE ASSOCIATED RECEPTOR(S) HAVE GROUND LEVEL ELEVATIONS ABOVE THE LOWEST STACK TOP.
CONSEQUENTLY NO CALCULATIONS WILL BE PERFORMED WITH THIS RECEPTOR.A SERIES OF ASTERISKS WILL INSTEAD APPEAR IN THE OUTPUT.

25

Susitna DEIS Comments
Willow Site Coal Fired Plant
Worst Case Impacts for SO2 Using Worst Case Coal

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 84/ 1 : HOUR 1

HOUR	THETA (DEG)	SPEED (M/S)	MIXING HEIGHT(M)	TEMP (K)	STABILITY CLASS
1	0.00	3.50	1000.00	273.00	4

	1	2	3	4	5	6	7	8	9	10
FINAL HT (M)	391.00									
DIST FIN HT (KM)	1.256									

RECEPTOR NO. NAME	EAST COORD	NORTH COORD	RECEPTOR HT ABV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1 *	-0.38	-0.92	0.0	140.0	0.0000	0.0000	1
2 *	-0.77	-1.85	0.0	130.0	0.0000	0.0000	2
3 *	-1.15	-2.77	0.0	120.0	0.0000	0.0000	3
4 *	-1.53	-3.70	0.0	110.0	0.0000	0.0000	4
5 *	-1.91	-4.62	0.0	100.0	0.0000	0.0000	5
6 *	-2.30	-5.54	0.0	90.0	0.0000	0.0000	6
7 *	-2.68	-6.47	0.0	80.0	0.0000	0.0000	7
8 *	-3.06	-7.39	0.0	90.0	0.0000	0.0000	8
9 *	-3.44	-8.31	0.0	80.0	0.0000	0.0000	9
10 *	-3.83	-9.24	0.0	80.0	0.0000	0.0000	10
11	-5.74	-13.86	0.0	150.0	0.0000	0.0000	11
12	-7.76	-18.48	0.0	150.0	0.0000	0.0000	12
13 *	-9.57	-23.10	0.0	140.0	0.0000	0.0000	13
14 *	-11.48	-27.72	0.0	130.0	0.0000	0.0000	14
15 *	-15.31	-36.96	0.0	100.0	0.0000	0.0000	15
16 *	-19.13	-46.19	0.0	30.0	0.0000	0.0000	16
17 *	-0.71	-0.71	0.0	100.0	0.0000	0.0000	17
18 *	-1.41	-1.41	0.0	100.0	0.0000	0.0000	18
19 *	-2.12	-2.12	0.0	100.0	0.0000	0.0000	19
20 *	-2.83	-2.83	0.0	100.0	0.0000	0.0000	20
21 *	-3.54	-3.54	0.0	100.0	0.0000	0.0000	21
22 *	-4.24	-4.24	0.0	100.0	0.0000	0.0000	22
23 *	-4.95	-4.95	0.0	100.0	0.0000	0.0000	23
24 *	-5.66	-5.66	0.0	100.0	0.0000	0.0000	24
25 *	-6.36	-6.36	0.0	100.0	0.0000	0.0000	25
26 *	-7.07	-7.07	0.0	100.0	0.0000	0.0000	26
27 *	-10.61	-10.61	0.0	100.0	0.0000	0.0000	27
28	-14.14	-14.14	0.0	200.0	0.0000	0.0000	28
29	-17.68	-17.68	0.0	200.0	0.0000	0.0000	29
30 *	-21.21	-21.21	0.0	100.0	0.0000	0.0000	30
31 *	-25.28	-28.28	0.0	100.0	0.0000	0.0000	31
32**	-35.36	-35.36	0.0	3000.0	0.0000	0.0000	32
33 *	-0.92	-0.38	0.0	100.0	0.0000	0.0000	33
34 *	-1.85	-0.77	0.0	100.0	0.0000	0.0000	34
35 *	-2.77	-1.15	0.0	100.0	0.0000	0.0000	35
36 *	-3.70	-1.53	0.0	100.0	0.0000	0.0000	36
37 *	-4.62	-1.91	0.0	100.0	0.0000	0.0000	37
38 *	-5.54	-2.30	0.0	100.0	0.0000	0.0000	38
39 *	-6.47	-2.68	0.0	100.0	0.0000	0.0000	39
40 *	-7.39	-3.06	0.0	100.0	0.0000	0.0000	40

57

41 *	-8.31	-3.44	0.0	100.0	0.0000	0.0000	41
42 *	-9.24	-3.83	0.0	100.0	0.0000	0.0000	42
43	-13.86	-5.74	0.0	200.0	0.0000	0.0000	43
44	-18.48	-7.65	0.0	200.0	0.0000	0.0000	44
45	-23.10	-9.57	0.0	200.0	0.0000	0.0000	45
46 *	-27.72	-11.48	0.0	100.0	0.0000	0.0000	46
47	-36.96	-15.31	0.0	200.0	0.0000	0.0000	47
48**	-46.19	-19.13	0.0	600.0	0.0000	0.0000	48
49 *	-1.00	0.00	0.0	100.0	0.0000	0.0000	49
50 *	-2.00	0.00	0.0	100.0	0.0000	0.0000	50
51 *	-3.00	0.00	0.0	100.0	0.0000	0.0000	51
52 *	-4.00	0.00	0.0	100.0	0.0000	0.0000	52
53 *	-5.00	0.00	0.0	100.0	0.0000	0.0000	53
54 *	-6.00	0.00	0.0	100.0	0.0000	0.0000	54
55 *	-7.00	0.00	0.0	100.0	0.0000	0.0000	55
56 *	-8.00	0.00	0.0	100.0	0.0000	0.0000	56
57 *	-9.00	0.00	0.0	100.0	0.0000	0.0000	57
58 *	-10.00	0.00	0.0	100.0	0.0000	0.0000	58
59	-15.00	0.00	0.0	200.0	0.0000	0.0000	59
60	-20.00	0.00	0.0	200.0	0.0000	0.0000	60
61	-25.00	0.00	0.0	200.0	0.0000	0.0000	61
62 *	-30.00	0.00	0.0	130.0	0.0000	0.0000	62
63	-40.00	0.00	0.0	200.0	0.0000	0.0000	63
64	-50.00	0.00	0.0	200.0	0.0000	0.0000	64
65 *	-0.92	0.38	0.0	100.0	0.0000	0.0000	65
66 *	-1.85	0.77	0.0	100.0	0.0000	0.0000	66
67 *	-2.77	1.15	0.0	100.0	0.0000	0.0000	67
68 *	-3.70	1.53	0.0	100.0	0.0000	0.0000	68
69 *	-4.62	1.91	0.0	100.0	0.0000	0.0000	69
70 *	-5.54	2.30	0.0	100.0	0.0000	0.0000	70
71 *	-6.47	2.68	0.0	100.0	0.0000	0.0000	71
72 *	-7.39	3.06	0.0	100.0	0.0000	0.0000	72
73 *	-8.31	3.44	0.0	100.0	0.0000	0.0000	73
74 *	-9.24	3.83	0.0	100.0	0.0000	0.0000	74
75	-13.86	5.74	0.0	180.0	0.0000	0.0000	75
76	-18.48	7.65	0.0	200.0	0.0000	0.0000	76
77	-23.10	9.57	0.0	400.0	0.0000	0.0000	77
78	-27.72	11.48	0.0	300.0	0.0000	0.0000	78
79	-36.96	15.31	0.0	200.0	0.0000	0.0000	79
80	-46.19	19.13	0.0	200.0	0.0000	0.0000	80
81	-0.71	0.71	0.0	150.0	0.0000	0.0000	81
82 *	-1.41	1.41	0.0	100.0	0.0000	0.0000	82
83 *	-2.12	2.12	0.0	100.0	0.0000	0.0000	83
84 *	-2.83	2.83	0.0	100.0	0.0000	0.0000	84
85 *	-3.54	3.54	0.0	100.0	0.0000	0.0000	85
86 *	-4.24	4.24	0.0	100.0	0.0000	0.0000	86
87 *	-4.95	4.95	0.0	100.0	0.0000	0.0000	87
88 *	-5.66	5.66	0.0	100.0	0.0000	0.0000	88
89	-6.36	6.36	0.0	200.0	0.0000	0.0000	89
90	-7.07	7.07	0.0	200.0	0.0000	0.0000	90
91	-10.61	10.61	0.0	200.0	0.0000	0.0000	91
92	-14.14	14.14	0.0	200.0	0.0000	0.0000	92
93	-17.68	17.68	0.0	200.0	0.0000	0.0000	93
94	-21.21	21.21	0.0	200.0	0.0000	0.0000	94
95	-28.28	28.28	0.0	200.0	0.0000	0.0000	95
96	-35.36	35.36	0.0	200.0	0.0000	0.0000	96
97 *	-0.38	0.92	0.0	100.0	0.0000	0.0000	97
98 *	-0.77	1.85	0.0	100.0	0.0000	0.0000	98
99 *	-1.15	2.77	0.0	100.0	0.0000	0.0000	99
100 *	-1.53	3.70	0.0	100.0	0.0000	0.0000	100
101 *	-1.91	4.62	0.0	100.0	0.0000	0.0000	101

85

102 *	-2.30	5.54	0.0	100.0	0.0000	0.0000	102
103 *	-2.68	6.47	0.0	100.0	0.0000	0.0000	103
104 *	-3.06	7.39	0.0	100.0	0.0000	0.0000	104
105	-3.44	8.31	0.0	200.0	0.0000	0.0000	105
106	-3.83	9.24	0.0	200.0	0.0000	0.0000	106
107	-5.74	13.86	0.0	200.0	0.0000	0.0000	107
108	-7.76	18.48	0.0	200.0	0.0000	0.0000	108
109	-9.57	23.10	0.0	200.0	0.0000	0.0000	109
110	-11.48	27.72	0.0	200.0	0.0000	0.0000	110
111	-15.31	36.96	0.0	200.0	0.0000	0.0000	111
112	-19.13	46.19	0.0	200.0	0.0000	0.0000	112
113 *	0.00	1.00	0.0	100.0	0.0000	0.0000	113
114 *	0.00	2.00	0.0	100.0	0.0000	0.0000	114
115 *	0.00	3.00	0.0	100.0	0.0000	0.0000	115
116 *	0.00	4.00	0.0	100.0	0.0000	0.0000	116
117 *	0.00	5.00	0.0	100.0	0.0000	0.0000	117
118 *	0.00	6.00	0.0	100.0	0.0000	0.0000	118
119 *	0.00	7.00	0.0	100.0	0.0000	0.0000	119
120 *	0.00	8.00	0.0	100.0	0.0000	0.0000	120
121 *	0.00	9.00	0.0	100.0	0.0000	0.0000	121
122 *	0.00	10.00	0.0	100.0	0.0000	0.0000	122
123 *	0.00	15.00	0.0	100.0	0.0000	0.0000	123
124 *	0.00	20.00	0.0	100.0	0.0000	0.0000	124
125 *	0.00	25.00	0.0	100.0	0.0000	0.0000	125
126	0.00	30.00	0.0	200.0	0.0000	0.0000	126
127	0.00	40.00	0.0	200.0	0.0000	0.0000	127
128	0.00	50.00	0.0	200.0	0.0000	0.0000	128

Susitna DEIS Comments
Willow Site Coal Fired Plant
Worst Case Impacts for SO2 Using Worst Case Coal

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 84/ 1 : HOUR 2

HOUR	THETA (DEG)	SPEED (M/S)	MIXING HEIGHT(M)	TEMP (K)	STABILITY CLASS
2	22.50	3.30	1000.00	273.00	4

	1	2	3	4	5	6	7	8	9	10
FINAL HT (M)	406.58									
DIST FIN HT (KM)	1.256									

RECEPTOR NO.	NAME	EAST COORD	NORTH COORD	RECEPTOR HT ABV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1	*	-0.38	-0.92	0.0	140.0	0.0000	0.0000	16
2	*	-0.77	-1.85	0.0	130.0	0.0000	0.0000	15
3	*	-1.15	-2.77	0.0	120.0	0.0000	0.0000	14
4	*	-1.53	-3.70	0.0	110.0	0.0000	0.0000	13
5	*	-1.91	-4.62	0.0	100.0	0.0000	0.0007	12
6	*	-2.30	-5.54	0.0	90.0	0.0000	0.0041	11
7	*	-2.68	-6.47	0.0	80.0	0.0000	0.0136	10
8	*	-3.06	-7.39	0.0	80.0	0.0000	0.0348	9
9	*	-3.44	-8.31	0.0	80.0	0.0000	0.0691	8
10	*	-3.83	-9.24	0.0	80.0	0.0000	0.1156	7
11		-5.74	-13.86	0.0	150.0	0.0000	0.5320	6
12		-7.76	-18.48	0.0	150.0	0.0000	0.7542	3
13	*	-9.57	-23.10	0.0	140.0	0.0000	0.8230	1
14	*	-11.48	-27.72	0.0	130.0	0.0000	0.8225	2
15	*	-15.31	-36.96	0.0	100.0	0.0000	0.7182	4
16	*	-19.13	-46.19	0.0	30.0	0.0000	0.5824	5
17	*	-0.71	-0.71	0.0	100.0	0.0000	0.0000	17
18	*	-1.41	-1.41	0.0	100.0	0.0000	0.0000	18
19	*	-2.12	-2.12	0.0	100.0	0.0000	0.0000	19
20	*	-2.83	-2.83	0.0	100.0	0.0000	0.0000	20
21	*	-3.54	-3.54	0.0	100.0	0.0000	0.0000	21
22	*	-4.24	-4.24	0.0	100.0	0.0000	0.0000	22
23	*	-4.95	-4.95	0.0	100.0	0.0000	0.0000	23
24	*	-5.66	-5.66	0.0	100.0	0.0000	0.0000	24
25	*	-6.36	-6.36	0.0	100.0	0.0000	0.0000	25
26	*	-7.07	-7.07	0.0	100.0	0.0000	0.0000	26
27	*	-10.61	-10.61	0.0	100.0	0.0000	0.0000	27
28		-14.14	-14.14	0.0	200.0	0.0000	0.0000	28
29		-17.68	-17.63	0.0	200.0	0.0000	0.0000	29
30	*	-21.21	-21.21	0.0	100.0	0.0000	0.0000	30
31	*	-28.28	-28.28	0.0	100.0	0.0000	0.0000	31
32	**	-35.36	-35.36	0.0	3000.0	0.0000	0.0000	32
33	*	-0.92	-0.38	0.0	100.0	0.0000	0.0000	33
34	*	-1.85	-0.77	0.0	100.0	0.0000	0.0000	34
35	*	-2.77	-1.15	0.0	100.0	0.0000	0.0000	35
36	*	-3.70	-1.53	0.0	100.0	0.0000	0.0000	36
37	*	-4.62	-1.91	0.0	100.0	0.0000	0.0000	37
38	*	-5.54	-2.30	0.0	100.0	0.0000	0.0000	38
39	*	-6.47	-2.68	0.0	100.0	0.0000	0.0000	39
40	*	-7.39	-3.06	0.0	100.0	0.0000	0.0000	40

60

41 *	-8.31	-3.44	0.0	100.0	0.0000	0.0000	41
42 *	-9.24	-3.83	0.0	100.0	0.0000	0.0000	42
43	-13.86	-5.74	0.0	200.0	0.0000	0.0000	43
44	-18.48	-7.65	0.0	200.0	0.0000	0.0000	44
45	-23.10	-9.57	0.0	200.0	0.0000	0.0000	45
46 *	-27.72	-11.48	0.0	100.0	0.0000	0.0000	46
47	-36.96	-15.31	0.0	200.0	0.0000	0.0000	47
48**	-46.19	-19.13	0.0	600.0	0.0000	0.0000	48
49 *	-1.00	0.00	0.0	100.0	0.0000	0.0000	49
50 *	-2.00	0.00	0.0	100.0	0.0000	0.0000	50
51 *	-3.00	0.00	0.0	100.0	0.0000	0.0000	51
52 *	-4.00	0.00	0.0	100.0	0.0000	0.0000	52
53 *	-5.00	0.00	0.0	100.0	0.0000	0.0000	53
54 *	-6.00	0.00	0.0	100.0	0.0000	0.0000	54
55 *	-7.00	0.00	0.0	100.0	0.0000	0.0000	55
56 *	-8.00	0.00	0.0	100.0	0.0000	0.0000	56
57 *	-9.00	0.00	0.0	100.0	0.0000	0.0000	57
58 *	-10.00	0.00	0.0	100.0	0.0000	0.0000	58
59	-15.00	0.00	0.0	200.0	0.0000	0.0000	59
60	-20.00	0.00	0.0	200.0	0.0000	0.0000	60
61	-25.00	0.00	0.0	200.0	0.0000	0.0000	61
62 *	-30.00	0.00	0.0	130.0	0.0000	0.0000	62
63	-40.00	0.00	0.0	200.0	0.0000	0.0000	63
64	-50.00	0.00	0.0	200.0	0.0000	0.0000	64
65 *	-0.92	0.38	0.0	100.0	0.0000	0.0000	65
66 *	-1.85	0.77	0.0	100.0	0.0000	0.0000	66
67 *	-2.77	1.15	0.0	100.0	0.0000	0.0000	67
68 *	-3.70	1.53	0.0	100.0	0.0000	0.0000	68
69 *	-4.62	1.91	0.0	100.0	0.0000	0.0000	69
70 *	-5.54	2.30	0.0	100.0	0.0000	0.0000	70
71 *	-6.47	2.68	0.0	100.0	0.0000	0.0000	71
72 *	-7.39	3.06	0.0	100.0	0.0000	0.0000	72
73 *	-8.31	3.44	0.0	100.0	0.0000	0.0000	73
74 *	-9.24	3.83	0.0	100.0	0.0000	0.0000	74
75	-13.86	5.74	0.0	180.0	0.0000	0.0000	75
76	-18.48	7.65	0.0	200.0	0.0000	0.0000	76
77	-23.10	9.57	0.0	400.0	0.0000	0.0000	77
78	-27.72	11.48	0.0	300.0	0.0000	0.0000	78
79	-36.96	15.31	0.0	200.0	0.0000	0.0000	79
80	-46.19	19.13	0.0	200.0	0.0000	0.0000	80
81	-0.71	0.71	0.0	150.0	0.0000	0.0000	81
82 *	-1.41	1.41	0.0	100.0	0.0000	0.0000	82
83 *	-2.12	2.12	0.0	100.0	0.0000	0.0000	83
84 *	-2.83	2.83	0.0	100.0	0.0000	0.0000	84
85 *	-3.54	3.54	0.0	100.0	0.0000	0.0000	85
86 *	-4.24	4.24	0.0	100.0	0.0000	0.0000	86
87 *	-4.95	4.95	0.0	100.0	0.0000	0.0000	87
88 *	-5.66	5.66	0.0	100.0	0.0000	0.0000	88
89	-6.36	6.36	0.0	200.0	0.0000	0.0000	89
90	-7.07	7.07	0.0	200.0	0.0000	0.0000	90
91	-10.61	10.61	0.0	200.0	0.0000	0.0000	91
92	-14.14	14.14	0.0	200.0	0.0000	0.0000	92
93	-17.68	17.68	0.0	200.0	0.0000	0.0000	93
94	-21.21	21.21	0.0	200.0	0.0000	0.0000	94
95	-28.28	28.28	0.0	200.0	0.0000	0.0000	95
96	-35.36	35.36	0.0	200.0	0.0000	0.0000	96
97 *	-0.38	0.92	0.0	100.0	0.0000	0.0000	97
98 *	-0.77	1.85	0.0	100.0	0.0000	0.0000	98
99 *	-1.15	2.77	0.0	100.0	0.0000	0.0000	99
100 *	-1.53	3.70	0.0	100.0	0.0000	0.0000	100
101 *	-1.91	4.62	0.0	100.0	0.0000	0.0000	101

61

102 *	-2.30	5.54	0.0	100.0	0.0000	0.0000	102
103 *	-2.68	6.47	0.0	100.0	0.0000	0.0000	103
104 *	-3.06	7.39	0.0	100.0	0.0000	0.0000	104
105	-3.44	8.31	0.0	200.0	0.0000	0.0000	105
106	-3.83	9.24	0.0	200.0	0.0000	0.0000	106
107	-5.74	13.86	0.0	200.0	0.0000	0.0000	107
108	-7.76	18.48	0.0	200.0	0.0000	0.0000	108
109	-9.57	23.10	0.0	200.0	0.0000	0.0000	109
110	-11.48	27.72	0.0	200.0	0.0000	0.0000	110
111	-15.31	36.96	0.0	200.0	0.0000	0.0000	111
112	-19.13	46.19	0.0	200.0	0.0000	0.0000	112
113 *	0.00	1.00	0.0	100.0	0.0000	0.0000	113
114 *	0.00	2.00	0.0	100.0	0.0000	0.0000	114
115 *	0.00	3.00	0.0	100.0	0.0000	0.0000	115
116 *	0.00	4.00	0.0	100.0	0.0000	0.0000	116
117 *	0.00	5.00	0.0	100.0	0.0000	0.0000	117
118 *	0.00	6.00	0.0	100.0	0.0000	0.0000	118
119 *	0.00	7.00	0.0	100.0	0.0000	0.0000	119
120 *	0.00	8.00	0.0	100.0	0.0000	0.0000	120
121 *	0.00	9.00	0.0	100.0	0.0000	0.0000	121
122 *	0.00	10.00	0.0	100.0	0.0000	0.0000	122
123 *	0.00	15.00	0.0	100.0	0.0000	0.0000	123
124 *	0.00	20.00	0.0	100.0	0.0000	0.0000	124
125 *	0.00	25.00	0.0	100.0	0.0000	0.0000	125
126	0.00	30.00	0.0	200.0	0.0000	0.0000	126
127	0.00	40.00	0.0	200.0	0.0000	0.0000	127
128	0.00	50.00	0.0	200.0	0.0000	0.0000	128

Susitna DEIS Comments
Willow Site Coal Fired Plant
Worst Case Impacts for SO2 Using Worst Case Coal

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 84/ 1 : HOUR 3

HOUR	THETA (DEG)	SPEED (M/S)	MIXING HEIGHT(M)	TEMP (K)	STABILITY CLASS
3	45.00	2.70	1000.00	273.00	4

	1	2	3	4	5	6	7	8	9	10
FINAL HT (M)	467.15									
DIST FIN HT (KM)	1.256									

RECEPTOR NO. NAME	EAST COORD	NORTH COORD	RECEPTOR HT ABV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1 *	-0.38	-0.92	0.0	140.0	0.0000	0.0000	16
2 *	-0.77	-1.85	0.0	130.0	0.0000	0.0000	17
3 *	-1.15	-2.77	0.0	120.0	0.0000	0.0000	18
4 *	-1.53	-3.70	0.0	110.0	0.0000	0.0000	19
5 *	-1.91	-4.62	0.0	100.0	0.0000	0.0000	20
6 *	-2.30	-5.54	0.0	90.0	0.0000	0.0000	21
7 *	-2.68	-6.47	0.0	80.0	0.0000	0.0000	22
8 *	-3.06	-7.39	0.0	80.0	0.0000	0.0000	23
9 *	-3.44	-8.31	0.0	80.0	0.0000	0.0000	24
10 *	-3.83	-9.24	0.0	80.0	0.0000	0.0000	25
11	-5.74	-13.86	0.0	150.0	0.0000	0.0000	26
12	-7.76	-18.48	0.0	150.0	0.0000	0.0000	27
13 *	-9.57	-23.10	0.0	140.0	0.0000	0.0000	28
14 *	-11.48	-27.72	0.0	130.0	0.0000	0.0000	29
15 *	-15.31	-36.96	0.0	100.0	0.0000	0.0000	30
16 *	-19.13	-46.19	0.0	30.0	0.0000	0.0000	31
17 *	-0.71	-0.71	0.0	100.0	0.0000	0.0000	32
18 *	-1.41	-1.41	0.0	100.0	0.0000	0.0000	15
19 *	-2.12	-2.12	0.0	100.0	0.0000	0.0000	14
20 *	-2.83	-2.83	0.0	100.0	0.0000	0.0000	13
21 *	-3.54	-3.54	0.0	100.0	0.0000	0.0000	12
22 *	-4.24	-4.24	0.0	100.0	0.0000	0.0003	11
23 *	-4.95	-4.95	0.0	100.0	0.0000	0.0020	10
24 *	-5.66	-5.66	0.0	100.0	0.0000	0.0071	9
25 *	-6.36	-6.36	0.0	100.0	0.0000	0.0180	8
26 *	-7.07	-7.07	0.0	100.0	0.0000	0.0362	7
27 *	-10.61	-10.61	0.0	100.0	0.0000	0.2017	6
28	-14.14	-14.14	0.0	200.0	0.0000	0.4800	4
29	-17.68	-17.68	0.0	200.0	0.0000	0.6199	2
30 *	-21.21	-21.21	0.0	100.0	0.0000	0.6131	3
31 *	-28.28	-28.28	0.0	100.0	0.0000	0.6352	1
32**	-35.36	-35.36	0.0	3000.0	0.0000	0.4201	5
33 *	-0.92	-0.38	0.0	100.0	0.0000	0.0000	33
34 *	-1.85	-0.77	0.0	100.0	0.0000	0.0000	34
35 *	-2.77	-1.15	0.0	100.0	0.0000	0.0000	35
36 *	-3.70	-1.53	0.0	100.0	0.0000	0.0000	36
37 *	-4.62	-1.91	0.0	100.0	0.0000	0.0000	37
38 *	-5.54	-2.30	0.0	100.0	0.0000	0.0000	38
39 *	-6.47	-2.68	0.0	100.0	0.0000	0.0000	39
40 *	-7.39	-3.06	0.0	100.0	0.0000	0.0000	40

63

41 *	-8.31	-3.44	0.0	100.0	0.0000	0.0000	41
42 *	-9.24	-3.83	0.0	100.0	0.0000	0.0000	42
43	-13.86	-5.74	0.0	200.0	0.0000	0.0000	43
44	-18.48	-7.65	0.0	200.0	0.0000	0.0000	44
45	-23.10	-9.57	0.0	200.0	0.0000	0.0000	45
46 *	-27.72	-11.48	0.0	100.0	0.0000	0.0000	46
47	-36.96	-15.31	0.0	200.0	0.0000	0.0000	47
48**	-46.19	-19.13	0.0	600.0	0.0000	0.0000	48
49 *	-1.00	0.00	0.0	100.0	0.0000	0.0000	49
50 *	-2.00	0.00	0.0	100.0	0.0000	0.0000	50
51 *	-3.00	0.00	0.0	100.0	0.0000	0.0000	51
52 *	-4.00	0.00	0.0	100.0	0.0000	0.0000	52
53 *	-5.00	0.00	0.0	100.0	0.0000	0.0000	53
54 *	-6.00	0.00	0.0	100.0	0.0000	0.0000	54
55 *	-7.00	0.00	0.0	100.0	0.0000	0.0000	55
56 *	-8.00	0.00	0.0	100.0	0.0000	0.0000	56
57 *	-9.00	0.00	0.0	100.0	0.0000	0.0000	57
58 *	-10.00	0.00	0.0	100.0	0.0000	0.0000	58
59	-15.00	0.00	0.0	200.0	0.0000	0.0000	59
60	-20.00	0.00	0.0	200.0	0.0000	0.0000	60
61	-25.00	0.00	0.0	200.0	0.0000	0.0000	61
62 *	-30.00	0.00	0.0	130.0	0.0000	0.0000	62
63	-40.00	0.00	0.0	200.0	0.0000	0.0000	63
64	-50.00	0.00	0.0	200.0	0.0000	0.0000	64
65 *	-0.92	0.38	0.0	100.0	0.0000	0.0000	65
66 *	-1.85	0.77	0.0	100.0	0.0000	0.0000	66
67 *	-2.77	1.15	0.0	100.0	0.0000	0.0000	67
68 *	-3.70	1.53	0.0	100.0	0.0000	0.0000	68
69 *	-4.62	1.91	0.0	100.0	0.0000	0.0000	69
70 *	-5.54	2.30	0.0	100.0	0.0000	0.0000	70
71 *	-6.47	2.68	0.0	100.0	0.0000	0.0000	71
72 *	-7.39	3.06	0.0	100.0	0.0000	0.0000	72
73 *	-8.31	3.44	0.0	100.0	0.0000	0.0000	73
74 *	-9.24	3.83	0.0	100.0	0.0000	0.0000	74
75	-13.86	5.74	0.0	180.0	0.0000	0.0000	75
76	-18.48	7.65	0.0	200.0	0.0000	0.0000	76
77	-23.10	9.57	0.0	400.0	0.0000	0.0000	77
78	-27.72	11.48	0.0	300.0	0.0000	0.0000	78
79	-36.96	15.31	0.0	200.0	0.0000	0.0000	79
80	-46.19	19.13	0.0	200.0	0.0000	0.0000	80
81	-0.71	0.71	0.0	150.0	0.0000	0.0000	81
82 *	-1.41	1.41	0.0	100.0	0.0000	0.0000	82
83 *	-2.12	2.12	0.0	100.0	0.0000	0.0000	83
84 *	-2.83	2.83	0.0	100.0	0.0000	0.0000	84
85 *	-3.54	3.54	0.0	100.0	0.0000	0.0000	85
86 *	-4.24	4.24	0.0	100.0	0.0000	0.0000	86
87 *	-4.95	4.95	0.0	100.0	0.0000	0.0000	87
88 *	-5.66	5.66	0.0	100.0	0.0000	0.0000	88
89	-6.36	6.36	0.0	200.0	0.0000	0.0000	89
90	-7.07	7.07	0.0	200.0	0.0000	0.0000	90
91	-10.61	10.61	0.0	200.0	0.0000	0.0000	91
92	-14.14	14.14	0.0	200.0	0.0000	0.0000	92
93	-17.68	17.68	0.0	200.0	0.0000	0.0000	93
94	-21.21	21.21	0.0	200.0	0.0000	0.0000	94
95	-28.28	28.28	0.0	200.0	0.0000	0.0000	95
96	-35.36	35.36	0.0	200.0	0.0000	0.0000	96
97 *	-0.38	0.92	0.0	100.0	0.0000	0.0000	97
98 *	-0.77	1.85	0.0	100.0	0.0000	0.0000	98
99 *	-1.15	2.77	0.0	100.0	0.0000	0.0000	99
100 *	-1.53	3.70	0.0	100.0	0.0000	0.0000	100
101 *	-1.91	4.62	0.0	100.0	0.0000	0.0000	101

102 *	-2.30	5.54	0.0	100.0	0.0000	0.0000	102
103 *	-2.68	6.47	0.0	100.0	0.0000	0.0000	103
104 *	-3.06	7.39	0.0	100.0	0.0000	0.0000	104
105	-3.44	8.31	0.0	200.0	0.0000	0.0000	105
106	-3.83	9.24	0.0	200.0	0.0000	0.0000	106
107	-5.74	13.86	0.0	200.0	0.0000	0.0000	107
108	-7.76	18.48	0.0	200.0	0.0000	0.0000	108
109	-9.57	23.10	0.0	200.0	0.0000	0.0000	109
110	-11.48	27.72	0.0	200.0	0.0000	0.0000	110
111	-15.31	36.96	0.0	200.0	0.0000	0.0000	111
112	-19.13	46.19	0.0	200.0	0.0000	0.0000	112
113 *	0.00	1.00	0.0	100.0	0.0000	0.0000	113
114 *	0.00	2.00	0.0	100.0	0.0000	0.0000	114
115 *	0.00	3.00	0.0	100.0	0.0000	0.0000	115
116 *	0.00	4.00	0.0	100.0	0.0000	0.0000	116
117 *	0.00	5.00	0.0	100.0	0.0000	0.0000	117
118 *	0.00	6.00	0.0	100.0	0.0000	0.0000	118
119 *	0.00	7.00	0.0	100.0	0.0000	0.0000	119
120 *	0.00	8.00	0.0	100.0	0.0000	0.0000	120
121 *	0.00	9.00	0.0	100.0	0.0000	0.0000	121
122 *	0.00	10.00	0.0	100.0	0.0000	0.0000	122
123 *	0.00	15.00	0.0	100.0	0.0000	0.0000	123
124 *	0.00	20.00	0.0	100.0	0.0000	0.0000	124
125 *	0.00	25.00	0.0	100.0	0.0000	0.0000	125
126	0.00	30.00	0.0	200.0	0.0000	0.0000	126
127	0.00	40.00	0.0	200.0	0.0000	0.0000	127
128	0.00	50.00	0.0	200.0	0.0000	0.0000	128

Susitna DEIS Comments
Willow Site Coal Fired Plant
Worst Case Impacts for SO2 Using Worst Case Coal

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 84/ 1 : HOUR 4

HOUR	THETA (DEG)	SPEED (M/S)	MIXING HEIGHT(M)	TEMP (K)	STABILITY CLASS
4	67.50	2.20	1000.00	273.00	4

	1	2	3	4	5	6	7	8	9	10
FINAL HT (M)	542.87									
DIST FIN HT (KM)	1.256									

RECEPTOR NO.	NAME	EAST COORD	NORTH COORD	RECEPTOR HT ABV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1	*	-0.38	-0.92	0.0	140.0	0.0000	0.0000	15
2	*	-0.77	-1.85	0.0	130.0	0.0000	0.0000	16
3	*	-1.15	-2.77	0.0	120.0	0.0000	0.0000	17
4	*	-1.53	-3.70	0.0	110.0	0.0000	0.0000	18
5	*	-1.91	-4.62	0.0	100.0	0.0000	0.0000	19
6	*	-2.30	-5.54	0.0	90.0	0.0000	0.0000	20
7	*	-2.68	-6.47	0.0	80.0	0.0000	0.0000	21
8	*	-3.06	-7.39	0.0	80.0	0.0000	0.0000	22
9	*	-3.44	-8.31	0.0	80.0	0.0000	0.0000	23
10	*	-3.83	-9.24	0.0	80.0	0.0000	0.0000	24
11		-5.74	-13.86	0.0	150.0	0.0000	0.0000	25
12		-7.76	-18.48	0.0	150.0	0.0000	0.0000	26
13	*	-9.57	-23.10	0.0	140.0	0.0000	0.0000	27
14	*	-11.48	-27.72	0.0	130.0	0.0000	0.0000	28
15	*	-15.31	-36.96	0.0	100.0	0.0000	0.0000	29
16	*	-19.13	-46.19	0.0	30.0	0.0000	0.0000	30
17	*	-0.71	-0.71	0.0	100.0	0.0000	0.0000	31
18	*	-1.41	-1.41	0.0	100.0	0.0000	0.0000	32
19	*	-2.12	-2.12	0.0	100.0	0.0000	0.0000	33
20	*	-2.83	-2.83	0.0	100.0	0.0000	0.0000	34
21	*	-3.54	-3.54	0.0	100.0	0.0000	0.0000	35
22	*	-4.24	-4.24	0.0	100.0	0.0000	0.0000	36
23	*	-4.95	-4.95	0.0	100.0	0.0000	0.0000	37
24	*	-5.66	-5.66	0.0	100.0	0.0000	0.0000	38
25	*	-6.36	-6.36	0.0	100.0	0.0000	0.0000	39
26	*	-7.07	-7.07	0.0	100.0	0.0000	0.0000	40
27	*	-10.61	-10.61	0.0	100.0	0.0000	0.0000	41
28		-14.14	-14.14	0.0	200.0	0.0000	0.0000	42
29		-17.68	-17.68	0.0	200.0	0.0000	0.0000	43
30	*	-21.21	-21.21	0.0	100.0	0.0000	0.0000	44
31	*	-28.28	-28.28	0.0	100.0	0.0000	0.0000	45
32	**	-35.36	-35.36	0.0	3000.0	0.0000	0.0000	46
33	*	-0.92	-0.38	0.0	100.0	0.0000	0.0000	47
34	*	-1.85	-0.77	0.0	100.0	0.0000	0.0000	48
35	*	-2.77	-1.15	0.0	100.0	0.0000	0.0000	14
36	*	-3.70	-1.53	0.0	100.0	0.0000	0.0000	13
37	*	-4.62	-1.91	0.0	100.0	0.0000	0.0000	12
38	*	-5.54	-2.30	0.0	100.0	0.0000	0.0000	11
39	*	-6.47	-2.68	0.0	100.0	0.0000	0.0001	10
40	*	-7.39	-3.06	0.0	100.0	0.0000	0.0005	9

41 *	-8.31	-3.44	0.0	100.0	0.0000	0.0019	8
42 *	-9.24	-3.83	0.0	100.0	0.0000	0.0051	7
43	-13.86	-5.74	0.0	200.0	0.0000	0.0875	6
44	-18.48	-7.65	0.0	200.0	0.0000	0.2270	5
45	-23.10	-9.57	0.0	200.0	0.0000	0.3624	4
46 *	-27.72	-11.48	0.0	100.0	0.0000	0.4029	3
47	-36.96	-15.31	0.0	200.0	0.0000	0.5424	2
48**	-46.19	-19.13	0.0	600.0	0.0000	0.6323	1
49 *	-1.00	0.00	0.0	100.0	0.0000	0.0000	49
50 *	-2.00	0.00	0.0	100.0	0.0000	0.0000	50
51 *	-3.00	0.00	0.0	100.0	0.0000	0.0000	51
52 *	-4.00	0.00	0.0	100.0	0.0000	0.0000	52
53 *	-5.00	0.00	0.0	100.0	0.0000	0.0000	53
54 *	-6.00	0.00	0.0	100.0	0.0000	0.0000	54
55 *	-7.00	0.00	0.0	100.0	0.0000	0.0000	55
56 *	-8.00	0.00	0.0	100.0	0.0000	0.0000	56
57 *	-9.00	0.00	0.0	100.0	0.0000	0.0000	57
58 *	-10.00	0.00	0.0	100.0	0.0000	0.0000	58
59	-15.00	0.00	0.0	200.0	0.0000	0.0000	59
60	-20.00	0.00	0.0	200.0	0.0000	0.0000	60
61	-25.00	0.00	0.0	200.0	0.0000	0.0000	61
62 *	-30.00	0.00	0.0	130.0	0.0000	0.0000	62
63	-40.00	0.00	0.0	200.0	0.0000	0.0000	63
64	-50.00	0.00	0.0	200.0	0.0000	0.0000	64
65 *	-0.92	0.38	0.0	100.0	0.0000	0.0000	65
66 *	-1.85	0.77	0.0	100.0	0.0000	0.0000	66
67 *	-2.77	1.15	0.0	100.0	0.0000	0.0000	67
68 *	-3.70	1.53	0.0	100.0	0.0000	0.0000	68
69 *	-4.62	1.91	0.0	100.0	0.0000	0.0000	69
70 *	-5.54	2.30	0.0	100.0	0.0000	0.0000	70
71 *	-6.47	2.68	0.0	100.0	0.0000	0.0000	71
72 *	-7.39	3.06	0.0	100.0	0.0000	0.0000	72
73 *	-8.31	3.44	0.0	100.0	0.0000	0.0000	73
74 *	-9.24	3.83	0.0	100.0	0.0000	0.0000	74
75	-13.86	5.74	0.0	180.0	0.0000	0.0000	75
76	-18.48	7.65	0.0	200.0	0.0000	0.0000	76
77	-23.10	9.57	0.0	400.0	0.0000	0.0000	77
78	-27.72	11.48	0.0	300.0	0.0000	0.0000	78
79	-36.96	15.31	0.0	200.0	0.0000	0.0000	79
80	-46.19	19.13	0.0	200.0	0.0000	0.0000	80
81	-0.71	0.71	0.0	150.0	0.0000	0.0000	81
82 *	-1.41	1.41	0.0	100.0	0.0000	0.0000	82
83 *	-2.12	2.12	0.0	100.0	0.0000	0.0000	83
84 *	-2.83	2.83	0.0	100.0	0.0000	0.0000	84
85 *	-3.54	3.54	0.0	100.0	0.0000	0.0000	85
86 *	-4.24	4.24	0.0	100.0	0.0000	0.0000	86
87 *	-4.95	4.95	0.0	100.0	0.0000	0.0000	87
88 *	-5.66	5.66	0.0	100.0	0.0000	0.0000	88
89	-6.36	6.36	0.0	200.0	0.0000	0.0000	89
90	-7.07	7.07	0.0	200.0	0.0000	0.0000	90
91	-10.61	10.61	0.0	200.0	0.0000	0.0000	91
92	-14.14	14.14	0.0	200.0	0.0000	0.0000	92
93	-17.68	17.68	0.0	200.0	0.0000	0.0000	93
94	-21.21	21.21	0.0	200.0	0.0000	0.0000	94
95	-28.28	28.28	0.0	200.0	0.0000	0.0000	95
96	-35.36	35.36	0.0	200.0	0.0000	0.0000	96
97 *	-0.38	0.92	0.0	100.0	0.0000	0.0000	97
98 *	-0.77	1.85	0.0	100.0	0.0000	0.0000	98
99 *	-1.15	2.77	0.0	100.0	0.0000	0.0000	99
100 *	-1.53	3.70	0.0	100.0	0.0000	0.0000	100
101 *	-1.91	4.62	0.0	100.0	0.0000	0.0000	101

102 *	-2.30	5.54	0.0	100.0	0.0000	0.0000	102
103 *	-2.68	6.47	0.0	100.0	0.0000	0.0000	103
104 *	-3.06	7.39	0.0	100.0	0.0000	0.0000	104
105	-3.44	8.31	0.0	200.0	0.0000	0.0000	105
106	-3.83	9.24	0.0	200.0	0.0000	0.0000	106
107	-5.74	13.86	0.0	200.0	0.0000	0.0000	107
108	-7.76	18.48	0.0	200.0	0.0000	0.0000	108
109	-9.57	23.10	0.0	200.0	0.0000	0.0000	109
110	-11.48	27.72	0.0	200.0	0.0000	0.0000	110
111	-15.31	36.96	0.0	200.0	0.0000	0.0000	111
112	-19.13	46.19	0.0	200.0	0.0000	0.0000	112
113 *	0.00	1.00	0.0	100.0	0.0000	0.0000	113
114 *	0.00	2.00	0.0	100.0	0.0000	0.0000	114
115 *	0.00	3.00	0.0	100.0	0.0000	0.0000	115
116 *	0.00	4.00	0.0	100.0	0.0000	0.0000	116
117 *	0.00	5.00	0.0	100.0	0.0000	0.0000	117
118 *	0.00	6.00	0.0	100.0	0.0000	0.0000	118
119 *	0.00	7.00	0.0	100.0	0.0000	0.0000	119
120 *	0.00	8.00	0.0	100.0	0.0000	0.0000	120
121 *	0.00	9.00	0.0	100.0	0.0000	0.0000	121
122 *	0.00	10.00	0.0	100.0	0.0000	0.0000	122
123 *	0.00	15.00	0.0	100.0	0.0000	0.0000	123
124 *	0.00	20.00	0.0	100.0	0.0000	0.0000	124
125 *	0.00	25.00	0.0	100.0	0.0000	0.0000	125
126	0.00	30.00	0.0	200.0	0.0000	0.0000	126
127	0.00	40.00	0.0	200.0	0.0000	0.0000	127
128	0.00	50.00	0.0	200.0	0.0000	0.0000	128

Susitna DEIS Comments
Willow Site Coal Fired Plant
Worst Case Impacts for SO2 Using Worst Case Coal

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 84/ 1 : HOUR 5

HOUR	THETA (DEG)	SPEED (M/S)	MIXING HEIGHT(M)	TEMP (K)	STABILITY CLASS
5	90.00	2.00	1000.00	273.00	4

FINAL HT (M) 583.76
DIST FIN HT (KM) 1.256

	1	2	3	4	5	6	7	8	9	10
RECEPTOR NO. NAME	EAST COORD	NORTH COORD	RECEPTOR HT ABV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK			
1 *	-0.38	-0.92	0.0	140.0	0.0000	0.0000	15			
2 *	-0.77	-1.85	0.0	130.0	0.0000	0.0000	16			
3 *	-1.15	-2.77	0.0	120.0	0.0000	0.0000	17			
4 *	-1.53	-3.70	0.0	110.0	0.0000	0.0000	18			
5 *	-1.91	-4.62	0.0	100.0	0.0000	0.0000	19			
6 *	-2.30	-5.54	0.0	90.0	0.0000	0.0000	20			
7 *	-2.68	-6.47	0.0	80.0	0.0000	0.0000	21			
8 *	-3.06	-7.39	0.0	80.0	0.0000	0.0000	22			
9 *	-3.44	-8.31	0.0	80.0	0.0000	0.0000	23			
10 *	-3.83	-9.24	0.0	80.0	0.0000	0.0000	24			
11	-5.74	-13.86	0.0	150.0	0.0000	0.0000	25			
12	-7.76	-18.48	0.0	150.0	0.0000	0.0000	26			
13 *	-9.57	-23.10	0.0	140.0	0.0000	0.0000	27			
14 *	-11.48	-27.72	0.0	130.0	0.0000	0.0000	28			
15 *	-15.31	-36.96	0.0	100.0	0.0000	0.0000	29			
16 *	-19.13	-46.19	0.0	30.0	0.0000	0.0000	30			
17 *	-0.71	-0.71	0.0	100.0	0.0000	0.0000	31			
18 *	-1.41	-1.41	0.0	100.0	0.0000	0.0000	32			
19 *	-2.12	-2.12	0.0	100.0	0.0000	0.0000	33			
20 *	-2.83	-2.83	0.0	100.0	0.0000	0.0000	34			
21 *	-3.54	-3.54	0.0	100.0	0.0000	0.0000	35			
22 *	-4.24	-4.24	0.0	100.0	0.0000	0.0000	36			
23 *	-4.95	-4.95	0.0	100.0	0.0000	0.0000	37			
24 *	-5.66	-5.66	0.0	100.0	0.0000	0.0000	38			
25 *	-6.36	-6.36	0.0	100.0	0.0000	0.0000	39			
26 *	-7.07	-7.07	0.0	100.0	0.0000	0.0000	40			
27 *	-10.61	-10.61	0.0	100.0	0.0000	0.0000	41			
28	-14.14	-14.14	0.0	200.0	0.0000	0.0000	42			
29	-17.68	-17.68	0.0	200.0	0.0000	0.0000	43			
30 *	-21.21	-21.21	0.0	100.0	0.0000	0.0000	44			
31 *	-28.28	-28.28	0.0	100.0	0.0000	0.0000	45			
32**	-35.36	-35.36	0.0	3000.0	0.0000	0.0000	46			
33 *	-0.92	-0.38	0.0	100.0	0.0000	0.0000	47			
34 *	-1.85	-0.77	0.0	100.0	0.0000	0.0000	48			
35 *	-2.77	-1.15	0.0	100.0	0.0000	0.0000	49			
36 *	-3.70	-1.53	0.0	100.0	0.0000	0.0000	50			
37 *	-4.62	-1.91	0.0	100.0	0.0000	0.0000	51			
38 *	-5.54	-2.30	0.0	100.0	0.0000	0.0000	52			
39 *	-6.47	-2.68	0.0	100.0	0.0000	0.0000	53			
40 *	-7.39	-3.06	0.0	100.0	0.0000	0.0000	54			

41	*	-8.31	-3.44	0.0	100.0	0.0000	0.0000	55
42	*	-9.24	-3.83	0.0	100.0	0.0000	0.0000	56
43		-13.86	-5.74	0.0	200.0	0.0000	0.0000	57
44		-18.48	-7.65	0.0	200.0	0.0000	0.0000	58
45		-23.10	-9.57	0.0	200.0	0.0000	0.0000	59
46	*	-27.72	-11.48	0.0	100.0	0.0000	0.0000	60
47		-36.96	-15.31	0.0	200.0	0.0000	0.0000	61
48	**	-46.19	-19.13	0.0	600.0	0.0000	0.0000	62
49	*	-1.00	0.00	0.0	100.0	0.0000	0.0000	63
50	*	-2.00	0.00	0.0	100.0	0.0000	0.0000	64
51	*	-3.00	0.00	0.0	100.0	0.0000	0.0000	14
52	*	-4.00	0.00	0.0	100.0	0.0000	0.0000	13
53	*	-5.00	0.00	0.0	100.0	0.0000	0.0000	12
54	*	-6.00	0.00	0.0	100.0	0.0000	0.0000	11
55	*	-7.00	0.00	0.0	100.0	0.0000	0.0000	10
56	*	-8.00	0.00	0.0	100.0	0.0000	0.0001	9
57	*	-9.00	0.00	0.0	100.0	0.0000	0.0005	8
58	*	-10.00	0.00	0.0	100.0	0.0000	0.0015	7
59		-15.00	0.00	0.0	200.0	0.0000	0.0435	6
60		-20.00	0.00	0.0	200.0	0.0000	0.1406	5
61		-25.00	0.00	0.0	200.0	0.0000	0.2550	4
62	*	-30.00	0.00	0.0	130.0	0.0000	0.3320	3
63		-40.00	0.00	0.0	200.0	0.0000	0.4549	2
64		-50.00	0.00	0.0	200.0	0.0000	0.4889	1
65	*	-0.92	0.38	0.0	100.0	0.0000	0.0000	65
66	*	-1.85	0.77	0.0	100.0	0.0000	0.0000	66
67	*	-2.77	1.15	0.0	100.0	0.0000	0.0000	67
68	*	-3.70	1.53	0.0	100.0	0.0000	0.0000	68
69	*	-4.62	1.91	0.0	100.0	0.0000	0.0000	69
70	*	-5.54	2.30	0.0	100.0	0.0000	0.0000	70
71	*	-6.47	2.68	0.0	100.0	0.0000	0.0000	71
72	*	-7.39	3.06	0.0	100.0	0.0000	0.0000	72
73	*	-8.31	3.44	0.0	100.0	0.0000	0.0000	73
74	*	-9.24	3.83	0.0	100.0	0.0000	0.0000	74
75		-13.86	5.74	0.0	180.0	0.0000	0.0000	75
76		-18.48	7.65	0.0	200.0	0.0000	0.0000	76
77		-23.10	9.57	0.0	400.0	0.0000	0.0000	77
78		-27.72	11.48	0.0	300.0	0.0000	0.0000	78
79		-36.96	15.31	0.0	200.0	0.0000	0.0000	79
80		-46.19	19.13	0.0	200.0	0.0000	0.0000	80
81		-0.71	0.71	0.0	150.0	0.0000	0.0000	81
82	*	-1.41	1.41	0.0	100.0	0.0000	0.0000	82
83	*	-2.12	2.12	0.0	100.0	0.0000	0.0000	83
84	*	-2.83	2.83	0.0	100.0	0.0000	0.0000	84
85	*	-3.54	3.54	0.0	100.0	0.0000	0.0000	85
86	*	-4.24	4.24	0.0	100.0	0.0000	0.0000	86
87	*	-4.95	4.95	0.0	100.0	0.0000	0.0000	87
88	*	-5.66	5.66	0.0	100.0	0.0000	0.0000	88
89		-6.36	6.36	0.0	200.0	0.0000	0.0000	89
90		-7.07	7.07	0.0	200.0	0.0000	0.0000	90
91		-10.61	10.61	0.0	200.0	0.0000	0.0000	91
92		-14.14	14.14	0.0	200.0	0.0000	0.0000	92
93		-17.68	17.68	0.0	200.0	0.0000	0.0000	93
94		-21.21	21.21	0.0	200.0	0.0000	0.0000	94
95		-28.28	28.28	0.0	200.0	0.0000	0.0000	95
96		-35.36	35.36	0.0	200.0	0.0000	0.0000	96
97	*	-0.38	0.92	0.0	100.0	0.0000	0.0000	97
98	*	-0.77	1.65	0.0	100.0	0.0000	0.0000	98
99	*	-1.15	2.77	0.0	100.0	0.0000	0.0000	99
100	*	-1.53	3.70	0.0	100.0	0.0000	0.0000	100
101	*	-1.91	4.62	0.0	100.0	0.0000	0.0000	101

102 *	-2.30	5.54	0.0	100.0	0.0000	0.0000	102
103 *	-2.68	6.47	0.0	100.0	0.0000	0.0000	103
104 *	-3.06	7.39	0.0	100.0	0.0000	0.0000	104
105	-3.44	8.31	0.0	200.0	0.0000	0.0000	105
106	-3.83	9.24	0.0	200.0	0.0000	0.0000	106
107	-5.74	13.86	0.0	200.0	0.0000	0.0000	107
108	-7.76	18.48	0.0	200.0	0.0000	0.0000	108
109	-9.57	23.10	0.0	200.0	0.0000	0.0000	109
110	-11.48	27.72	0.0	200.0	0.0000	0.0000	110
111	-15.31	36.96	0.0	200.0	0.0000	0.0000	111
112	-19.13	46.19	0.0	200.0	0.0000	0.0000	112
113 *	0.00	1.00	0.0	100.0	0.0000	0.0000	113
114 *	0.00	2.00	0.0	100.0	0.0000	0.0000	114
115 *	0.00	3.00	0.0	100.0	0.0000	0.0000	115
116 *	0.00	4.00	0.0	100.0	0.0000	0.0000	116
117 *	0.00	5.00	0.0	100.0	0.0000	0.0000	117
118 *	0.00	6.00	0.0	100.0	0.0000	0.0000	118
119 *	0.00	7.00	0.0	100.0	0.0000	0.0000	119
120 *	0.00	8.00	0.0	100.0	0.0000	0.0000	120
121 *	0.00	9.00	0.0	100.0	0.0000	0.0000	121
122 *	0.00	10.00	0.0	100.0	0.0000	0.0000	122
123 *	0.00	15.00	0.0	100.0	0.0000	0.0000	123
124 *	0.00	20.00	0.0	100.0	0.0000	0.0000	124
125 *	0.00	25.00	0.0	100.0	0.0000	0.0000	125
126	0.00	30.00	0.0	200.0	0.0000	0.0000	126
127	0.00	40.00	0.0	200.0	0.0000	0.0000	127
128	0.00	50.00	0.0	200.0	0.0000	0.0000	128

Susitna DEIS Comments
Willow Site Coal Fired Plant
Worst Case Impacts for SO2 Using Worst Case Coal

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 84/ 1 : HOUR 6

HOUR	THETA (DEG)	SPEED (M/S)	MIXING HEIGHT(M)	TEMP (K)	STABILITY CLASS
6	121.50	2.20	1000.00	273.00	4

	1	2	3	4	5	6	7	8	9	10
FINAL HT (M)	542.87									
DIST FIN HT (KM)	1.256									

RECEPTOR NO. NAME	EAST COORD	NORTH COORD	RECEPTOR HT ABV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1 *	-0.38	-0.92	0.0	140.0	0.0000	0.0000	15
2 *	-0.77	-1.85	0.0	130.0	0.0000	0.0000	16
3 *	-1.15	-2.77	0.0	120.0	0.0000	0.0000	17
4 *	-1.53	-3.70	0.0	110.0	0.0000	0.0000	18
5 *	-1.91	-4.62	0.0	100.0	0.0000	0.0000	19
6 *	-2.30	-5.54	0.0	90.0	0.0000	0.0000	20
7 *	-2.68	-6.47	0.0	80.0	0.0000	0.0000	21
8 *	-3.06	-7.39	0.0	80.0	0.0000	0.0000	22
9 *	-3.44	-8.31	0.0	80.0	0.0000	0.0000	23
10 *	-3.83	-9.24	0.0	80.0	0.0000	0.0000	24
11	-5.74	-13.86	0.0	150.0	0.0000	0.0000	25
12	-7.76	-18.48	0.0	150.0	0.0000	0.0000	26
13 *	-9.57	-23.10	0.0	140.0	0.0000	0.0000	27
14 *	-11.48	-27.72	0.0	130.0	0.0000	0.0000	28
15 *	-15.31	-36.96	0.0	100.0	0.0000	0.0000	29
16 *	-19.13	-46.19	0.0	30.0	0.0000	0.0000	30
17 *	-0.71	-0.71	0.0	100.0	0.0000	0.0000	31
18 *	-1.41	-1.41	0.0	100.0	0.0000	0.0000	32
19 *	-2.12	-2.12	0.0	100.0	0.0000	0.0000	33
20 *	-2.83	-2.83	0.0	100.0	0.0000	0.0000	34
21 *	-3.54	-3.54	0.0	100.0	0.0000	0.0000	35
22 *	-4.24	-4.24	0.0	100.0	0.0000	0.0000	36
23 *	-4.95	-4.95	0.0	100.0	0.0000	0.0000	37
24 *	-5.66	-5.66	0.0	100.0	0.0000	0.0000	38
25 *	-6.36	-6.36	0.0	100.0	0.0000	0.0000	39
26 *	-7.07	-7.07	0.0	100.0	0.0000	0.0000	40
27 *	-10.61	-10.61	0.0	100.0	0.0000	0.0000	41
28	-14.14	-14.14	0.0	200.0	0.0000	0.0000	42
29	-17.68	-17.68	0.0	200.0	0.0000	0.0000	43
30 *	-21.21	-21.21	0.0	100.0	0.0000	0.0000	44
31 *	-28.28	-28.28	0.0	100.0	0.0000	0.0000	45
32**	-35.36	-35.36	0.0	3000.0	0.0000	0.0000	46
33 *	-0.92	-0.38	0.0	100.0	0.0000	0.0000	47
34 *	-1.85	-0.77	0.0	100.0	0.0000	0.0000	48
35 *	-2.77	-1.15	0.0	100.0	0.0000	0.0000	49
36 *	-3.70	-1.53	0.0	100.0	0.0000	0.0000	50
37 *	-4.62	-1.91	0.0	100.0	0.0000	0.0000	51
38 *	-5.54	-2.30	0.0	100.0	0.0000	0.0000	52
39 *	-6.47	-2.68	0.0	100.0	0.0000	0.0000	53
40 *	-7.39	-3.06	0.0	100.0	0.0000	0.0000	54

41 *	-8.31	-3.44	0.0	100.0	0.0000	0.0000	55
42 *	-9.24	-3.83	0.0	100.0	0.0000	0.0000	56
43	-13.86	-5.74	0.0	200.0	0.0000	0.0000	57
44	-18.48	-7.65	0.0	200.0	0.0000	0.0000	58
45	-23.10	-9.57	0.0	200.0	0.0000	0.0000	59
46 *	-27.72	-11.48	0.0	100.0	0.0000	0.0000	60
47	-36.96	-15.31	0.0	200.0	0.0000	0.0000	61
48**	-46.19	-19.13	0.0	600.0	0.0000	0.0000	62
49 *	-1.00	0.00	0.0	100.0	0.0000	0.0000	63
50 *	-2.00	0.00	0.0	100.0	0.0000	0.0000	64
51 *	-3.00	0.00	0.0	100.0	0.0000	0.0000	65
52 *	-4.00	0.00	0.0	100.0	0.0000	0.0000	66
53 *	-5.00	0.00	0.0	100.0	0.0000	0.0000	67
54 *	-6.00	0.00	0.0	100.0	0.0000	0.0000	68
55 *	-7.00	0.00	0.0	100.0	0.0000	0.0000	69
56 *	-8.00	0.00	0.0	100.0	0.0000	0.0000	70
57 *	-9.00	0.00	0.0	100.0	0.0000	0.0000	71
58 *	-10.00	0.00	0.0	100.0	0.0000	0.0000	72
59	-15.00	0.00	0.0	200.0	0.0000	0.0000	73
60	-20.00	0.00	0.0	200.0	0.0000	0.0000	74
61	-25.00	0.00	0.0	200.0	0.0000	0.0000	75
62 *	-30.00	0.00	0.0	130.0	0.0000	0.0000	76
63	-40.00	0.00	0.0	200.0	0.0000	0.0000	77
64	-50.00	0.00	0.0	200.0	0.0000	0.0000	78
65 *	-0.92	0.38	0.0	100.0	0.0000	0.0000	79
66 *	-1.85	0.77	0.0	100.0	0.0000	0.0000	80
67 *	-2.77	1.15	0.0	100.0	0.0000	0.0000	14
68 *	-3.70	1.53	0.0	100.0	0.0000	0.0000	13
69 *	-4.62	1.91	0.0	100.0	0.0000	0.0000	12
70 *	-5.54	2.30	0.0	100.0	0.0000	0.0000	11
71 *	-6.47	2.68	0.0	100.0	0.0000	0.0001	10
72 *	-7.39	3.06	0.0	100.0	0.0000	0.0005	9
73 *	-8.31	3.44	0.0	100.0	0.0000	0.0019	8
74 *	-9.24	3.83	0.0	100.0	0.0000	0.0051	7
75	-13.86	5.74	0.0	180.0	0.0000	0.0855	6
76	-18.48	7.65	0.0	200.0	0.0000	0.2270	5
77	-23.10	9.57	0.0	400.0	0.0000	0.4550	4
78	-27.72	11.48	0.0	300.0	0.0000	0.4882	3
79	-36.96	15.31	0.0	200.0	0.0000	0.5424	2
80	-46.19	19.13	0.0	200.0	0.0000	0.5515	1
81	-0.71	0.71	0.0	150.0	0.0000	0.0000	81
82 *	-1.41	1.41	0.0	100.0	0.0000	0.0000	82
83 *	-2.12	2.12	0.0	100.0	0.0000	0.0000	83
84 *	-2.83	2.83	0.0	100.0	0.0000	0.0000	84
85 *	-3.54	3.54	0.0	100.0	0.0000	0.0000	85
86 *	-4.24	4.24	0.0	100.0	0.0000	0.0000	86
87 *	-4.95	4.95	0.0	100.0	0.0000	0.0000	87
88 *	-5.66	5.66	0.0	100.0	0.0000	0.0000	88
89	-6.36	6.36	0.0	200.0	0.0000	0.0000	89
90	-7.07	7.07	0.0	200.0	0.0000	0.0000	90
91	-10.61	10.61	0.0	200.0	0.0000	0.0000	91
92	-14.14	14.14	0.0	200.0	0.0000	0.0000	92
93	-17.68	17.68	0.0	200.0	0.0000	0.0000	93
94	-21.21	21.21	0.0	200.0	0.0000	0.0000	94
95	-28.28	28.28	0.0	200.0	0.0000	0.0000	95
96	-35.36	35.36	0.0	200.0	0.0000	0.0000	96
97 *	-0.38	0.92	0.0	100.0	0.0000	0.0000	97
98 *	-0.77	1.85	0.0	100.0	0.0000	0.0000	98
99 *	-1.15	2.77	0.0	100.0	0.0000	0.0000	99
100 *	-1.53	3.70	0.0	100.0	0.0000	0.0000	100
101 *	-1.91	4.62	0.0	100.0	0.0000	0.0000	101

102 *	-2.30	5.54	0.0	100.0	0.0000	0.0000	102
103 *	-2.68	6.47	0.0	100.0	0.0000	0.0000	103
104 *	-3.06	7.39	0.0	100.0	0.0000	0.0000	104
105	-3.44	8.31	0.0	200.0	0.0000	0.0000	105
106	-3.83	9.24	0.0	200.0	0.0000	0.0000	106
107	-5.74	13.86	0.0	200.0	0.0000	0.0000	107
108	-7.76	18.48	0.0	200.0	0.0000	0.0000	108
109	-9.57	23.10	0.0	200.0	0.0000	0.0000	109
110	-11.48	27.72	0.0	200.0	0.0000	0.0000	110
111	-15.31	36.96	0.0	200.0	0.0000	0.0000	111
112	-19.13	46.19	0.0	200.0	0.0000	0.0000	112
113 *	0.00	1.00	0.0	100.0	0.0000	0.0000	113
114 *	0.00	2.00	0.0	100.0	0.0000	0.0000	114
115 *	0.00	3.00	0.0	100.0	0.0000	0.0000	115
116 *	0.00	4.00	0.0	100.0	0.0000	0.0000	116
117 *	0.00	5.00	0.0	100.0	0.0000	0.0000	117
118 *	0.00	6.00	0.0	100.0	0.0000	0.0000	118
119 *	0.00	7.00	0.0	100.0	0.0000	0.0000	119
120 *	0.00	8.00	0.0	100.0	0.0000	0.0000	120
121 *	0.00	9.00	0.0	100.0	0.0000	0.0000	121
122 *	0.00	10.00	0.0	100.0	0.0000	0.0000	122
123 *	0.00	15.00	0.0	100.0	0.0000	0.0000	123
124 *	0.00	20.00	0.0	100.0	0.0000	0.0000	124
125 *	0.00	25.00	0.0	100.0	0.0000	0.0000	125
126	0.00	30.00	0.0	200.0	0.0000	0.0000	126
127	0.00	40.00	0.0	200.0	0.0000	0.0000	127
128	0.00	50.00	0.0	200.0	0.0000	0.0000	128

Susitna DEIS Comments
Willow Site Coal Fired Plant
Worst Case Impacts for SO2 Using Worst Case Coal

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 84/ 1 : HOUR 7

HOUR	THETA (DEG)	SPEED (M/S)	MIXING HEIGHT(M)	TEMP (K)	STABILITY CLASS
7	135.00	3.30	1000.00	273.00	4

	1	2	3	4	5	6	7	8	9	10
FINAL HT (M)	406.58									
DIST FIN HT (KM)	1.256									

RECEPTOR NO. NAME	EAST COORD	NORTH COORD	RECEPTOR HT ABV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1 *	-0.38	-0.92	0.0	140.0	0.0000	0.0000	16
2 *	-0.77	-1.85	0.0	130.0	0.0000	0.0000	17
3 *	-1.15	-2.77	0.0	120.0	0.0000	0.0000	18
4 *	-1.53	-3.70	0.0	110.0	0.0000	0.0000	19
5 *	-1.91	-4.62	0.0	100.0	0.0000	0.0000	20
6 *	-2.30	-5.54	0.0	90.0	0.0000	0.0000	21
7 *	-2.68	-6.47	0.0	80.0	0.0000	0.0000	22
8 *	-3.06	-7.39	0.0	80.0	0.0000	0.0000	23
9 *	-3.44	-8.31	0.0	80.0	0.0000	0.0000	24
10 *	-3.83	-9.24	0.0	80.0	0.0000	0.0000	25
11	-5.74	-13.86	0.0	150.0	0.0000	0.0000	26
12	-7.76	-18.48	0.0	150.0	0.0000	0.0000	27
13 *	-9.57	-23.10	0.0	140.0	0.0000	0.0000	28
14 *	-11.48	-27.72	0.0	130.0	0.0000	0.0000	29
15 *	-15.31	-36.96	0.0	100.0	0.0000	0.0000	30
16 *	-19.13	-46.19	0.0	30.0	0.0000	0.0000	31
17 *	-0.71	-0.71	0.0	100.0	0.0000	0.0000	32
18 *	-1.41	-1.41	0.0	100.0	0.0000	0.0000	33
19 *	-2.12	-2.12	0.0	100.0	0.0000	0.0000	34
20 *	-2.83	-2.83	0.0	100.0	0.0000	0.0000	35
21 *	-3.54	-3.54	0.0	100.0	0.0000	0.0000	36
22 *	-4.24	-4.24	0.0	100.0	0.0000	0.0000	37
23 *	-4.95	-4.95	0.0	100.0	0.0000	0.0000	38
24 *	-5.66	-5.66	0.0	100.0	0.0000	0.0000	39
25 *	-6.36	-6.36	0.0	100.0	0.0000	0.0000	40
26 *	-7.07	-7.07	0.0	100.0	0.0000	0.0000	41
27 *	-10.61	-10.61	0.0	100.0	0.0000	0.0000	42
28	-14.14	-14.14	0.0	200.0	0.0000	0.0000	43
29	-17.68	-17.68	0.0	200.0	0.0000	0.0000	44
30 *	-21.21	-21.21	0.0	100.0	0.0000	0.0000	45
31 *	-28.28	-28.28	0.0	100.0	0.0000	0.0000	46
32**	-35.36	-35.36	0.0	3000.0	0.0000	0.0000	47
33 *	-0.92	-0.38	0.0	100.0	0.0000	0.0000	48
34 *	-1.85	-0.77	0.0	100.0	0.0000	0.0000	49
35 *	-2.77	-1.15	0.0	100.0	0.0000	0.0000	50
36 *	-3.70	-1.53	0.0	100.0	0.0000	0.0000	51
37 *	-4.62	-1.91	0.0	100.0	0.0000	0.0000	52
38 *	-5.54	-2.30	0.0	100.0	0.0000	0.0000	53
39 *	-6.47	-2.68	0.0	100.0	0.0000	0.0000	54
40 *	-7.39	-3.06	0.0	100.0	0.0000	0.0000	55

75

41	*		-8.31	-3.44		0.0			100.0		0.0000		0.0000		56			
42	*		-9.24	-3.83		0.0			100.0		0.0000		0.0000		57			
43			-13.86	-5.74		0.0			200.0		0.0000		0.0000		58			
44			-18.48	-7.65		0.0			200.0		0.0000		0.0000		59			
45			-23.10	-9.57		0.0			200.0		0.0000		0.0000		60			
46	*		-27.72	-11.48		0.0			100.0		0.0000		0.0000		61			
47			-36.96	-15.31		0.0			200.0		0.0000		0.0000		62			
48	**		-46.19	-19.13		0.0			600.0		0.0000		0.0000		63			
49	*		-1.00	0.00		0.0			100.0		0.0000		0.0000		64			
50	*		-2.00	0.00		0.0			100.0		0.0000		0.0000		65			
51	*		-3.00	0.00		0.0			100.0		0.0000		0.0000		66			
52	*		-4.00	0.00		0.0			100.0		0.0000		0.0000		67			
53	*		-5.00	0.00		0.0			100.0		0.0000		0.0000		68			
54	*		-6.00	0.00		0.0			100.0		0.0000		0.0000		69			
55	*		-7.00	0.00		0.0			100.0		0.0000		0.0000		70			
56	*		-8.00	0.00		0.0			100.0		0.0000		0.0000		71			
57	*		-9.00	0.00		0.0			100.0		0.0000		0.0000		72			
58	*		-10.00	0.00		0.0			100.0		0.0000		0.0000		73			
59			-15.00	0.00		0.0			200.0		0.0000		0.0000		74			
60			-20.00	0.00		0.0			200.0		0.0000		0.0000		75			
61			-25.00	0.00		0.0			200.0		0.0000		0.0000		76			
62	*		-30.00	0.00		0.0			130.0		0.0000		0.0000		77			
63			-40.00	0.00		0.0			200.0		0.0000		0.0000		78			
64			-50.00	0.00		0.0			200.0		0.0000		0.0000		79			
65	*		-0.92	0.38		0.0			100.0		0.0000		0.0000		80			
66	*		-1.85	0.77		0.0			100.0		0.0000		0.0000		81			
67	*		-2.77	1.15		0.0			100.0		0.0000		0.0000		82			
68	*		-3.70	1.53		0.0			100.0		0.0000		0.0000		83			
69	*		-4.62	1.91		0.0			100.0		0.0000		0.0000		84			
70	*		-5.54	2.30		0.0			100.0		0.0000		0.0000		85			
71	*		-6.47	2.68		0.0			100.0		0.0000		0.0000		86			
72	*		-7.39	3.06		0.0			100.0		0.0000		0.0000		87			
73	*		-8.31	3.44		0.0			100.0		0.0000		0.0000		88			
74	*		-9.24	3.83		0.0			100.0		0.0000		0.0000		89			
75			-13.86	5.74		0.0			180.0		0.0000		0.0000		90			
76			-18.48	7.65		0.0			200.0		0.0000		0.0000		91			
77			-23.10	9.57		0.0			400.0		0.0000		0.0000		92			
78			-27.72	11.48		0.0			300.0		0.0000		0.0000		93			
79			-36.96	15.31		0.0			200.0		0.0000		0.0000		94			
80			-46.19	19.13		0.0			200.0		0.0000		0.0000		95			
81			-0.71	0.71		0.0			150.0		0.0000		0.0000		96			
82	*		-1.41	1.41		0.0			100.0		0.0000		0.0000		15			
83	*		-2.12	2.12		0.0			100.0		0.0000		0.0000		14			
84	*		-2.83	2.83		0.0			100.0		0.0000		0.0000		13			
85	*		-3.54	3.54		0.0			100.0		0.0000		0.0007		12			
86	*		-4.24	4.24		0.0			100.0		0.0000		0.0046		11			
87	*		-4.95	4.95		0.0			100.0		0.0000		0.0169		10			
88	*		-5.66	5.66		0.0			100.0		0.0000		0.0419		9			
89			-6.36	6.36		0.0			200.0		0.0000		0.1286		8			
90			-7.07	7.07		0.0			200.0		0.0000		0.1984		7			
91			-10.61	10.61		0.0			200.0		0.0000		0.5421		6			
92			-14.14	14.14		0.0			200.0		0.0000		0.7598		4			
93			-17.68	17.68		0.0			200.0		0.0000		0.8475		2			
94			-21.21	21.21		0.0			200.0		0.0000		0.8583		1			
95			-28.28	28.28		0.0			200.0		0.0000		0.7748		3			
96			-35.36	35.36		0.0			200.0		0.0000		0.6744		5			
97	*		-0.38	0.92		0.0			100.0		0.0000		0.0000		97			
98	*		-0.77	1.85		0.0			100.0		0.0000		0.0000		98			
99	*		-1.15	2.77		0.0			100.0		0.0000		0.0000		99			
100	*		-1.53	3.70		0.0			100.0		0.0000		0.0000		100			
101	*		-1.91	4.62		0.0			100.0		0.0000		0.0000		101			

102 *	-2.30	5.54	0.0	100.0	0.0000	0.0000	102
103 *	-2.68	6.47	0.0	100.0	0.0000	0.0000	103
104 *	-3.06	7.39	0.0	100.0	0.0000	0.0000	104
105	-3.44	8.31	0.0	200.0	0.0000	0.0000	105
106	-3.83	9.24	0.0	200.0	0.0000	0.0000	106
107	-5.74	13.86	0.0	200.0	0.0000	0.0000	107
108	-7.76	18.48	0.0	200.0	0.0000	0.0000	108
109	-9.57	23.10	0.0	200.0	0.0000	0.0000	109
110	-11.48	27.72	0.0	200.0	0.0000	0.0000	110
111	-15.31	36.96	0.0	200.0	0.0000	0.0000	111
112	-19.13	46.19	0.0	200.0	0.0000	0.0000	112
113 *	0.00	1.00	0.0	100.0	0.0000	0.0000	113
114 *	0.00	2.00	0.0	100.0	0.0000	0.0000	114
115 *	0.00	3.00	0.0	100.0	0.0000	0.0000	115
116 *	0.00	4.00	0.0	100.0	0.0000	0.0000	116
117 *	0.00	5.00	0.0	100.0	0.0000	0.0000	117
118 *	0.00	6.00	0.0	100.0	0.0000	0.0000	118
119 *	0.00	7.00	0.0	100.0	0.0000	0.0000	119
120 *	0.00	8.00	0.0	100.0	0.0000	0.0000	120
121 *	0.00	9.00	0.0	100.0	0.0000	0.0000	121
122 *	0.00	10.00	0.0	100.0	0.0000	0.0000	122
123 *	0.00	15.00	0.0	100.0	0.0000	0.0000	123
124 *	0.00	20.00	0.0	100.0	0.0000	0.0000	124
125 *	0.00	25.00	0.0	100.0	0.0000	0.0000	125
126	0.00	30.00	0.0	200.0	0.0000	0.0000	126
127	0.00	40.00	0.0	200.0	0.0000	0.0000	127
128	0.00	50.00	0.0	200.0	0.0000	0.0000	128

Susitna DEIS Comments
Willow Site Coal Fired Plant
Worst Case Impacts for SO2 Using Worst Case Coal

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 84/ 1 : HOUR 8

HOUR	THETA (DEG)	SPEED (M/S)	MIXING HEIGHT(M)	TEMP (K)	STABILITY CLASS
8	157.50	5.20	1000.00	273.00	4

	1	2	3	4	5	6	7	8	9	10
FINAL HT (M)	306.98									
DIST FIN HT (KM)	1.256									

RECEPTOR NO. NAME	EAST COORD	NORTH COORD	RECEPTOR HT ABV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1 *	-0.38	-0.92	0.0	140.0	0.0000	0.0000	16
2 *	-0.77	-1.85	0.0	130.0	0.0000	0.0000	17
3 *	-1.15	-2.77	0.0	120.0	0.0000	0.0000	18
4 *	-1.53	-3.70	0.0	110.0	0.0000	0.0000	19
5 *	-1.91	-4.62	0.0	100.0	0.0000	0.0000	20
6 *	-2.30	-5.54	0.0	90.0	0.0000	0.0000	21
7 *	-2.68	-6.47	0.0	80.0	0.0000	0.0000	22
8 *	-3.06	-7.39	0.0	80.0	0.0000	0.0000	23
9 *	-3.44	-8.31	0.0	80.0	0.0000	0.0000	24
10 *	-3.83	-9.24	0.0	80.0	0.0000	0.0000	25
11	-5.74	-13.86	0.0	150.0	0.0000	0.0000	26
12	-7.76	-18.48	0.0	150.0	0.0000	0.0000	27
13 *	-9.57	-23.10	0.0	140.0	0.0000	0.0000	28
14 *	-11.48	-27.72	0.0	130.0	0.0000	0.0000	29
15 *	-15.31	-36.96	0.0	100.0	0.0000	0.0000	30
16 *	-19.13	-46.19	0.0	30.0	0.0000	0.0000	31
17 *	-0.71	-0.71	0.0	100.0	0.0000	0.0000	32
18 *	-1.41	-1.41	0.0	100.0	0.0000	0.0000	33
19 *	-2.12	-2.12	0.0	100.0	0.0000	0.0000	34
20 *	-2.83	-2.83	0.0	100.0	0.0000	0.0000	35
21 *	-3.54	-3.54	0.0	100.0	0.0000	0.0000	36
22 *	-4.24	-4.24	0.0	100.0	0.0000	0.0000	37
23 *	-4.95	-4.95	0.0	100.0	0.0000	0.0000	38
24 *	-5.66	-5.66	0.0	100.0	0.0000	0.0000	39
25 *	-6.36	-6.36	0.0	100.0	0.0000	0.0000	40
26 *	-7.07	-7.07	0.0	100.0	0.0000	0.0000	41
27 *	-10.61	-10.61	0.0	100.0	0.0000	0.0000	42
28	-14.14	-14.14	0.0	200.0	0.0000	0.0000	43
29	-17.68	-17.68	0.0	200.0	0.0000	0.0000	44
30 *	-21.21	-21.21	0.0	100.0	0.0000	0.0000	45
31 *	-28.28	-28.28	0.0	100.0	0.0000	0.0000	46
32**	-35.36	-35.36	0.0	3000.0	0.0000	0.0000	47
33 *	-0.92	-0.38	0.0	100.0	0.0000	0.0000	48
34 *	-1.85	-0.77	0.0	100.0	0.0000	0.0000	49
35 *	-2.77	-1.15	0.0	100.0	0.0000	0.0000	50
36 *	-3.70	-1.53	0.0	100.0	0.0000	0.0000	51
37 *	-4.62	-1.91	0.0	100.0	0.0000	0.0000	52
38 *	-5.54	-2.30	0.0	100.0	0.0000	0.0000	53
39 *	-6.47	-2.68	0.0	100.0	0.0000	0.0000	54
40 *	-7.39	-3.06	0.0	100.0	0.0000	0.0000	55

41 *	-8.31	-3.44	0.0	100.0	0.0000	0.0000	56
42 *	-9.24	-3.83	0.0	100.0	0.0000	0.0000	57
43	-13.86	-5.74	0.0	200.0	0.0000	0.0000	58
44	-18.48	-7.65	0.0	200.0	0.0000	0.0000	59
45	-23.10	-9.57	0.0	200.0	0.0000	0.0000	60
46 *	-27.72	-11.48	0.0	100.0	0.0000	0.0000	61
47	-36.96	-15.31	0.0	200.0	0.0000	0.0000	62
48**	-46.19	-19.13	0.0	600.0	0.0000	0.0000	63
49 *	-1.00	0.00	0.0	100.0	0.0000	0.0000	64
50 *	-2.00	0.00	0.0	100.0	0.0000	0.0000	65
51 *	-3.00	0.00	0.0	100.0	0.0000	0.0000	66
52 *	-4.00	0.00	0.0	100.0	0.0000	0.0000	67
53 *	-5.00	0.00	0.0	100.0	0.0000	0.0000	68
54 *	-6.00	0.00	0.0	100.0	0.0000	0.0000	69
55 *	-7.00	0.00	0.0	100.0	0.0000	0.0000	70
56 *	-8.00	0.00	0.0	100.0	0.0000	0.0000	71
57 *	-9.00	0.00	0.0	100.0	0.0000	0.0000	72
58 *	-10.00	0.00	0.0	100.0	0.0000	0.0000	73
59	-15.00	0.00	0.0	200.0	0.0000	0.0000	74
60	-20.00	0.00	0.0	200.0	0.0000	0.0000	75
61	-25.00	0.00	0.0	200.0	0.0000	0.0000	76
62 *	-30.00	0.00	0.0	130.0	0.0000	0.0000	77
63	-40.00	0.00	0.0	200.0	0.0000	0.0000	78
64	-50.00	0.00	0.0	200.0	0.0000	0.0000	79
65 *	-0.92	0.38	0.0	100.0	0.0000	0.0000	80
66 *	-1.85	0.77	0.0	100.0	0.0000	0.0000	81
67 *	-2.77	1.15	0.0	100.0	0.0000	0.0000	82
68 *	-3.70	1.53	0.0	100.0	0.0000	0.0000	83
69 *	-4.62	1.91	0.0	100.0	0.0000	0.0000	84
70 *	-5.54	2.30	0.0	100.0	0.0000	0.0000	85
71 *	-6.47	2.68	0.0	100.0	0.0000	0.0000	86
72 *	-7.39	3.06	0.0	100.0	0.0000	0.0000	87
73 *	-8.31	3.44	0.0	100.0	0.0000	0.0000	88
74 *	-9.24	3.83	0.0	100.0	0.0000	0.0000	89
75	-13.86	5.74	0.0	180.0	0.0000	0.0000	90
76	-18.48	7.65	0.0	200.0	0.0000	0.0000	91
77	-23.10	9.57	0.0	400.0	0.0000	0.0000	92
78	-27.72	11.48	0.0	300.0	0.0000	0.0000	93
79	-36.96	15.31	0.0	200.0	0.0000	0.0000	94
80	-46.19	19.13	0.0	200.0	0.0000	0.0000	95
81	-0.71	0.71	0.0	150.0	0.0000	0.0000	96
82 *	-1.41	1.41	0.0	100.0	0.0000	0.0000	97
83 *	-2.12	2.12	0.0	100.0	0.0000	0.0000	98
84 *	-2.83	2.83	0.0	100.0	0.0000	0.0000	99
85 *	-3.54	3.54	0.0	100.0	0.0000	0.0000	100
86 *	-4.24	4.24	0.0	100.0	0.0000	0.0000	101
87 *	-4.95	4.95	0.0	100.0	0.0000	0.0000	102
88 *	-5.66	5.66	0.0	100.0	0.0000	0.0000	103
89	-6.36	6.36	0.0	200.0	0.0000	0.0000	104
90	-7.07	7.07	0.0	200.0	0.0000	0.0000	105
91	-10.61	10.61	0.0	200.0	0.0000	0.0000	106
92	-14.14	14.14	0.0	200.0	0.0000	0.0000	107
93	-17.68	17.68	0.0	200.0	0.0000	0.0000	108
94	-21.21	21.21	0.0	200.0	0.0000	0.0000	109
95	-28.28	28.28	0.0	200.0	0.0000	0.0000	110
96	-35.36	35.36	0.0	200.0	0.0000	0.0000	111
97 *	-0.38	0.92	0.0	100.0	0.0000	0.0000	112
98 *	-0.77	1.85	0.0	100.0	0.0000	0.0000	15
99 *	-1.15	2.77	0.0	100.0	0.0000	0.0004	14
100 *	-1.53	3.70	0.0	100.0	0.0000	0.0086	13
101 *	-1.91	4.62	0.0	100.0	0.0000	0.0465	12

102	*	-2.30	5.54	0.0	100.0	0.0000	0.1283	11
103	*	-2.68	6.47	0.0	100.0	0.0000	0.2465	10
104	*	-3.06	7.39	0.0	100.0	0.0000	0.3831	9
105		-3.44	8.31	0.0	200.0	0.0000	0.7276	7
106		-3.83	9.24	0.0	200.0	0.0000	0.8663	5
107		-5.74	13.86	0.0	200.0	0.0000	1.1706	1
108		-7.76	18.48	0.0	200.0	0.0000	1.1691	2
109		-9.57	23.10	0.0	200.0	0.0000	1.0714	3
110		-11.48	27.72	0.0	200.0	0.0000	0.9547	4
111		-15.31	36.96	0.0	200.0	0.0000	0.7472	6
112		-19.13	46.19	0.0	200.0	0.0000	0.5972	8
113	*	0.00	1.00	0.0	100.0	0.0000	0.0000	113
114	*	0.00	2.00	0.0	100.0	0.0000	0.0000	114
115	*	0.00	3.00	0.0	100.0	0.0000	0.0000	115
116	*	0.00	4.00	0.0	100.0	0.0000	0.0000	116
117	*	0.00	5.00	0.0	100.0	0.0000	0.0000	117
118	*	0.00	6.00	0.0	100.0	0.0000	0.0000	118
119	*	0.00	7.00	0.0	100.0	0.0000	0.0000	119
120	*	0.00	8.00	0.0	100.0	0.0000	0.0000	120
121	*	0.00	9.00	0.0	100.0	0.0000	0.0000	121
122	*	0.00	10.00	0.0	100.0	0.0000	0.0000	122
123	*	0.00	15.00	0.0	100.0	0.0000	0.0000	123
124	*	0.00	20.00	0.0	100.0	0.0000	0.0000	124
125	*	0.00	25.00	0.0	100.0	0.0000	0.0000	125
126		0.00	30.00	0.0	200.0	0.0000	0.0000	126
127		0.00	40.00	0.0	200.0	0.0000	0.0000	127
128		0.00	50.00	0.0	200.0	0.0000	0.0000	128

Susitna DEIS Comments
Willow Site Coal Fired Plant
Worst Case Impacts for SO2 Using Worst Case Coal

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 84/ 1 : HOUR 9

HOUR	THETA (DEG)	SPEED (M/S)	MIXING HEIGHT(M)	TEMP (K)	STABILITY CLASS
9	180.00	4.10	1000.00	273.00	4

	1	2	3	4	5	6	7	8	9	10
FINAL HT (M)	353.39									
DIST FIN HT (KM)	1.256									

RECEPTOR NO. NAME	EAST COORD	NORTH COORD	RECEPTOR HT ABV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1 *	-0.38	-0.92	0.0	140.0	0.0000	0.0000	16
2 *	-0.77	-1.85	0.0	130.0	0.0000	0.0000	17
3 *	-1.15	-2.77	0.0	120.0	0.0000	0.0000	18
4 *	-1.53	-3.70	0.0	110.0	0.0000	0.0000	19
5 *	-1.91	-4.62	0.0	100.0	0.0000	0.0000	20
6 *	-2.30	-5.54	0.0	90.0	0.0000	0.0000	21
7 *	-2.68	-6.47	0.0	80.0	0.0000	0.0000	22
8 *	-3.06	-7.39	0.0	80.0	0.0000	0.0000	23
9 *	-3.44	-8.31	0.0	80.0	0.0000	0.0000	24
10 *	-3.83	-9.24	0.0	80.0	0.0000	0.0000	25
11	-5.74	-13.86	0.0	150.0	0.0000	0.0000	26
12	-7.76	-18.48	0.0	150.0	0.0000	0.0000	27
13 *	-9.57	-23.10	0.0	140.0	0.0000	0.0000	28
14 *	-11.48	-27.72	0.0	130.0	0.0000	0.0000	29
15 *	-15.31	-36.96	0.0	100.0	0.0000	0.0000	30
16 *	-19.13	-46.19	0.0	30.0	0.0000	0.0000	31
17 *	-0.71	-0.71	0.0	100.0	0.0000	0.0000	32
18 *	-1.41	-1.41	0.0	100.0	0.0000	0.0000	33
19 *	-2.12	-2.12	0.0	100.0	0.0000	0.0000	34
20 *	-2.83	-2.83	0.0	100.0	0.0000	0.0000	35
21 *	-3.54	-3.54	0.0	100.0	0.0000	0.0000	36
22 *	-4.24	-4.24	0.0	100.0	0.0000	0.0000	37
23 *	-4.95	-4.95	0.0	100.0	0.0000	0.0000	38
24 *	-5.66	-5.66	0.0	100.0	0.0000	0.0000	39
25 *	-6.36	-6.36	0.0	100.0	0.0000	0.0000	40
26 *	-7.07	-7.07	0.0	100.0	0.0000	0.0000	41
27 *	-10.61	-10.61	0.0	100.0	0.0000	0.0000	42
28	-14.14	-14.14	0.0	200.0	0.0000	0.0000	43
29	-17.68	-17.68	0.0	200.0	0.0000	0.0000	44
30 *	-21.21	-21.21	0.0	100.0	0.0000	0.0000	45
31 *	-28.28	-28.28	0.0	100.0	0.0000	0.0000	46
32**	-35.36	-35.36	0.0	3000.0	0.0000	0.0000	47
33 *	-0.92	-0.38	0.0	100.0	0.0000	0.0000	48
34 *	-1.85	-0.77	0.0	100.0	0.0000	0.0000	49
35 *	-2.77	-1.15	0.0	100.0	0.0000	0.0000	50
36 *	-3.70	-1.53	0.0	100.0	0.0000	0.0000	51
37 *	-4.62	-1.91	0.0	100.0	0.0000	0.0000	52
38 *	-5.54	-2.30	0.0	100.0	0.0000	0.0000	53
39 *	-6.47	-2.68	0.0	100.0	0.0000	0.0000	54
40 *	-7.39	-3.06	0.0	100.0	0.0000	0.0000	55

18

41	*			-8.31	-3.44		0.0				100.0		0.0000		0.0000			56	
42	*			-9.24	-3.83		0.0				100.0		0.0000		0.0000			57	
43				-13.86	-5.74		0.0				200.0		0.0000		0.0000			58	
44				-18.48	-7.65		0.0				200.0		0.0000		0.0000			59	
45				-23.10	-9.57		0.0				200.0		0.0000		0.0000			60	
46	*			-27.72	-11.48		0.0				100.0		0.0000		0.0000			61	
47				-36.96	-15.31		0.0				200.0		0.0000		0.0000			62	
48	**			-46.19	-19.13		0.0				600.0		0.0000		0.0000			63	
49	*			-1.00	0.00		0.0				100.0		0.0000		0.0000			64	
50	*			-2.00	0.00		0.0				100.0		0.0000		0.0000			65	
51	*			-3.00	0.00		0.0				100.0		0.0000		0.0000			66	
52	*			-4.00	0.00		0.0				100.0		0.0000		0.0000			67	
53	*			-5.00	0.00		0.0				100.0		0.0000		0.0000			68	
54	*			-6.00	0.00		0.0				100.0		0.0000		0.0000			69	
55	*			-7.00	0.00		0.0				100.0		0.0000		0.0000			70	
56	*			-8.00	0.00		0.0				100.0		0.0000		0.0000			71	
57	*			-9.00	0.00		0.0				100.0		0.0000		0.0000			72	
58	*			-10.00	0.00		0.0				100.0		0.0000		0.0000			73	
59				-15.00	0.00		0.0				200.0		0.0000		0.0000			74	
60				-20.00	0.00		0.0				200.0		0.0000		0.0000			75	
61				-25.00	0.00		0.0				200.0		0.0000		0.0000			76	
62	*			-30.00	0.00		0.0				130.0		0.0000		0.0000			77	
63				-40.00	0.00		0.0				200.0		0.0000		0.0000			78	
64				-50.00	0.00		0.0				200.0		0.0000		0.0000			79	
65	*			-0.92	0.38		0.0				100.0		0.0000		0.0000			80	
66	*			-1.85	0.77		0.0				100.0		0.0000		0.0000			81	
67	*			-2.77	1.15		0.0				100.0		0.0000		0.0000			82	
68	*			-3.70	1.53		0.0				100.0		0.0000		0.0000			83	
69	*			-4.62	1.91		0.0				100.0		0.0000		0.0000			84	
70	*			-5.54	2.30		0.0				100.0		0.0000		0.0000			85	
71	*			-6.47	2.68		0.0				100.0		0.0000		0.0000			86	
72	*			-7.39	3.06		0.0				100.0		0.0000		0.0000			87	
73	*			-8.31	3.44		0.0				100.0		0.0000		0.0000			88	
74	*			-9.24	3.83		0.0				100.0		0.0000		0.0000			89	
75				-13.86	5.74		0.0				180.0		0.0000		0.0000			90	
76				-18.48	7.65		0.0				200.0		0.0000		0.0000			91	
77				-23.10	9.57		0.0				400.0		0.0000		0.0000			92	
78				-27.72	11.48		0.0				300.0		0.0000		0.0000			93	
79				-36.96	15.31		0.0				200.0		0.0000		0.0000			94	
80				-46.19	19.13		0.0				200.0		0.0000		0.0000			95	
81				-0.71	0.71		0.0				150.0		0.0000		0.0000			96	
82	*			-1.41	1.41		0.0				100.0		0.0000		0.0000			97	
83	*			-2.12	2.12		0.0				100.0		0.0000		0.0000			98	
84	*			-2.83	2.83		0.0				100.0		0.0000		0.0000			99	
85	*			-3.54	3.54		0.0				100.0		0.0000		0.0000			100	
86	*			-4.24	4.24		0.0				100.0		0.0000		0.0000			101	
87	*			-4.95	4.95		0.0				100.0		0.0000		0.0000			102	
88	*			-5.66	5.66		0.0				100.0		0.0000		0.0000			103	
89				-6.36	6.36		0.0				200.0		0.0000		0.0000			104	
90				-7.07	7.07		0.0				200.0		0.0000		0.0000			105	
91				-10.61	10.61		0.0				200.0		0.0000		0.0000			106	
92				-14.14	14.14		0.0				200.0		0.0000		0.0000			107	
93				-17.68	17.68		0.0				200.0		0.0000		0.0000			108	
94				-21.21	21.21		0.0				200.0		0.0000		0.0000			109	
95				-28.28	28.28		0.0				200.0		0.0000		0.0000			110	
96				-35.36	35.36		0.0				200.0		0.0000		0.0000			111	
97	*			-0.38	0.92		0.0				100.0		0.0000		0.0000			112	
98	*			-0.77	1.85		0.0				100.0		0.0000		0.0000			113	
99	*			-1.15	2.77		0.0				100.0		0.0000		0.0000			114	
100	*			-1.53	3.70		0.0				100.0		0.0000		0.0000			115	
101	*			-1.91	4.62		0.0				100.0		0.0000		0.0000			116	

28

102 *	-2.30	5.54	0.0	100.0	0.0000	0.0000	117
103 *	-2.68	6.47	0.0	100.0	0.0000	0.0000	118
104 *	-3.06	7.39	0.0	100.0	0.0000	0.0000	119
105	-3.44	8.31	0.0	200.0	0.0000	0.0000	120
106	-3.83	9.24	0.0	200.0	0.0000	0.0000	121
107	-5.74	13.86	0.0	200.0	0.0000	0.0000	122
108	-7.76	18.48	0.0	200.0	0.0000	0.0000	123
109	-9.57	23.10	0.0	200.0	0.0000	0.0000	124
110	-11.48	27.72	0.0	200.0	0.0000	0.0000	125
111	-15.31	36.96	0.0	200.0	0.0000	0.0000	126
112	-19.13	46.19	0.0	200.0	0.0000	0.0000	127
113 *	0.00	1.00	0.0	100.0	0.0000	0.0000	128
114 *	0.00	2.00	0.0	100.0	0.0000	0.0000	15
115 *	0.00	3.00	0.0	100.0	0.0000	0.0000	14
116 *	0.00	4.00	0.0	100.0	0.0000	0.0008	13
117 *	0.00	5.00	0.0	100.0	0.0000	0.0077	12
118 *	0.00	6.00	0.0	100.0	0.0000	0.0317	11
119 *	0.00	7.00	0.0	100.0	0.0000	0.0805	10
120 *	0.00	8.00	0.0	100.0	0.0000	0.1532	9
121 *	0.00	9.00	0.0	100.0	0.0000	0.2428	8
122 *	0.00	10.00	0.0	100.0	0.0000	0.3407	7
123 *	0.00	15.00	0.0	100.0	0.0000	0.7137	5
124 *	0.00	20.00	0.0	100.0	0.0000	0.8764	3
125 *	0.00	25.00	0.0	100.0	0.0000	0.9039	2
126	0.00	30.00	0.0	200.0	0.0000	0.9506	1
127	0.00	40.00	0.0	200.0	0.0000	0.7912	4
128	0.00	50.00	0.0	200.0	0.0000	0.6561	6

Susitna DEIS Comments
Willow Site Coal Fired Plant
Worst Case Impacts for SO2 Using Worst Case Coal

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 84/ 1 : HOUR 10

HOUR	THETA (DEG)	SPEED (M/S)	MIXING HEIGHT(M)	TEMP (K)	STABILITY CLASS
10	202.50	3.00	1000.00	273.00	4

	1	2	3	4	5	6	7	8	9	10
FINAL HT (M)	433.84									
DIST FIN HT (KM)	1.256									

RECEPTOR NO. NAME	EAST COORD	NORTH COORD	RECEPTOR HT ABV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1 *	-0.38	-0.92	0.0	140.0	0.0000	0.0000	1
2 *	-0.77	-1.85	0.0	130.0	0.0000	0.0000	2
3 *	-1.15	-2.77	0.0	120.0	0.0000	0.0000	3
4 *	-1.53	-3.70	0.0	110.0	0.0000	0.0000	4
5 *	-1.91	-4.62	0.0	100.0	0.0000	0.0000	5
6 *	-2.30	-5.54	0.0	90.0	0.0000	0.0000	6
7 *	-2.68	-6.47	0.0	80.0	0.0000	0.0000	7
8 *	-3.06	-7.39	0.0	80.0	0.0000	0.0000	8
9 *	-3.44	-8.31	0.0	80.0	0.0000	0.0000	9
10 *	-3.83	-9.24	0.0	80.0	0.0000	0.0000	10
11	-5.74	-13.86	0.0	150.0	0.0000	0.0000	11
12	-7.76	-18.48	0.0	150.0	0.0000	0.0000	12
13 *	-9.57	-23.10	0.0	140.0	0.0000	0.0000	13
14 *	-11.48	-27.72	0.0	130.0	0.0000	0.0000	14
15 *	-15.31	-36.96	0.0	100.0	0.0000	0.0000	15
16 *	-19.13	-46.19	0.0	30.0	0.0000	0.0000	16
17 *	-0.71	-0.71	0.0	100.0	0.0000	0.0000	17
18 *	-1.41	-1.41	0.0	100.0	0.0000	0.0000	18
19 *	-2.12	-2.12	0.0	100.0	0.0000	0.0000	19
20 *	-2.83	-2.83	0.0	100.0	0.0000	0.0000	20
21 *	-3.54	-3.54	0.0	100.0	0.0000	0.0000	21
22 *	-4.24	-4.24	0.0	100.0	0.0000	0.0000	22
23 *	-4.95	-4.95	0.0	100.0	0.0000	0.0000	23
24 *	-5.66	-5.66	0.0	100.0	0.0000	0.0000	24
25 *	-6.36	-6.36	0.0	100.0	0.0000	0.0000	25
26 *	-7.07	-7.07	0.0	100.0	0.0000	0.0000	26
27 *	-10.61	-10.61	0.0	100.0	0.0000	0.0000	27
28	-14.14	-14.14	0.0	200.0	0.0000	0.0000	28
29	-17.68	-17.68	0.0	200.0	0.0000	0.0000	29
30 *	-21.21	-21.21	0.0	100.0	0.0000	0.0000	30
31 *	-28.28	-28.28	0.0	100.0	0.0000	0.0000	31
32**	-35.36	-35.36	0.0	3000.0	0.0000	0.0000	32
33 *	-0.92	-0.38	0.0	100.0	0.0000	0.0000	33
34 *	-1.85	-0.77	0.0	100.0	0.0000	0.0000	34
35 *	-2.77	-1.15	0.0	100.0	0.0000	0.0000	35
36 *	-3.70	-1.53	0.0	100.0	0.0000	0.0000	36
37 *	-4.62	-1.91	0.0	100.0	0.0000	0.0000	37
38 *	-5.54	-2.30	0.0	100.0	0.0000	0.0000	38
39 *	-6.47	-2.68	0.0	100.0	0.0000	0.0000	39
40 *	-7.39	-3.06	0.0	100.0	0.0000	0.0000	40

84

41 *	-8.31	-3.44	0.0	100.0	0.0000	0.0000	41
42 *	-9.24	-3.83	0.0	100.0	0.0000	0.0000	42
43	-13.86	-5.74	0.0	200.0	0.0000	0.0000	43
44	-18.48	-7.65	0.0	200.0	0.0000	0.0000	44
45	-23.10	-9.57	0.0	200.0	0.0000	0.0000	45
46 *	-27.72	-11.48	0.0	100.0	0.0000	0.0000	46
47	-36.96	-15.31	0.0	200.0	0.0000	0.0000	47
48**	-46.19	-19.13	0.0	600.0	0.0000	0.0000	48
49 *	-1.00	0.00	0.0	100.0	0.0000	0.0000	49
50 *	-2.00	0.00	0.0	100.0	0.0000	0.0000	50
51 *	-3.00	0.00	0.0	100.0	0.0000	0.0000	51
52 *	-4.00	0.00	0.0	100.0	0.0000	0.0000	52
53 *	-5.00	0.00	0.0	100.0	0.0000	0.0000	53
54 *	-6.00	0.00	0.0	100.0	0.0000	0.0000	54
55 *	-7.00	0.00	0.0	100.0	0.0000	0.0000	55
56 *	-8.00	0.00	0.0	100.0	0.0000	0.0000	56
57 *	-9.00	0.00	0.0	100.0	0.0000	0.0000	57
58 *	-10.00	0.00	0.0	100.0	0.0000	0.0000	58
59	-15.00	0.00	0.0	200.0	0.0000	0.0000	59
60	-20.00	0.00	0.0	200.0	0.0000	0.0000	60
61	-25.00	0.00	0.0	200.0	0.0000	0.0000	61
62 *	-30.00	0.00	0.0	130.0	0.0000	0.0000	62
63	-40.00	0.00	0.0	200.0	0.0000	0.0000	63
64	-50.00	0.00	0.0	200.0	0.0000	0.0000	64
65 *	-0.92	0.38	0.0	100.0	0.0000	0.0000	65
66 *	-1.85	0.77	0.0	100.0	0.0000	0.0000	66
67 *	-2.77	1.15	0.0	100.0	0.0000	0.0000	67
68 *	-3.70	1.53	0.0	100.0	0.0000	0.0000	68
69 *	-4.62	1.91	0.0	100.0	0.0000	0.0000	69
70 *	-5.54	2.30	0.0	100.0	0.0000	0.0000	70
71 *	-6.47	2.68	0.0	100.0	0.0000	0.0000	71
72 *	-7.39	3.06	0.0	100.0	0.0000	0.0000	72
73 *	-8.31	3.44	0.0	100.0	0.0000	0.0000	73
74 *	-9.24	3.83	0.0	100.0	0.0000	0.0000	74
75	-13.86	5.74	0.0	180.0	0.0000	0.0000	75
76	-18.48	7.65	0.0	200.0	0.0000	0.0000	76
77	-23.10	9.57	0.0	400.0	0.0000	0.0000	77
78	-27.72	11.48	0.0	300.0	0.0000	0.0000	78
79	-36.96	15.31	0.0	200.0	0.0000	0.0000	79
80	-46.19	19.13	0.0	200.0	0.0000	0.0000	80
81	-0.71	0.71	0.0	150.0	0.0000	0.0000	81
82 *	-1.41	1.41	0.0	100.0	0.0000	0.0000	82
83 *	-2.12	2.12	0.0	100.0	0.0000	0.0000	83
84 *	-2.83	2.83	0.0	100.0	0.0000	0.0000	84
85 *	-3.54	3.54	0.0	100.0	0.0000	0.0000	85
86 *	-4.24	4.24	0.0	100.0	0.0000	0.0000	86
87 *	-4.95	4.95	0.0	100.0	0.0000	0.0000	87
88 *	-5.66	5.66	0.0	100.0	0.0000	0.0000	88
89	-6.36	6.36	0.0	200.0	0.0000	0.0000	89
90	-7.07	7.07	0.0	200.0	0.0000	0.0000	90
91	-10.61	10.61	0.0	200.0	0.0000	0.0000	91
92	-14.14	14.14	0.0	200.0	0.0000	0.0000	92
93	-17.68	17.68	0.0	200.0	0.0000	0.0000	93
94	-21.21	21.21	0.0	200.0	0.0000	0.0000	94
95	-28.28	28.28	0.0	200.0	0.0000	0.0000	95
96	-35.36	35.36	0.0	200.0	0.0000	0.0000	96
97 *	-0.38	0.92	0.0	100.0	0.0000	0.0000	97
98 *	-0.77	1.85	0.0	100.0	0.0000	0.0000	98
99 *	-1.15	2.77	0.0	100.0	0.0000	0.0000	99
100 *	-1.53	3.70	0.0	100.0	0.0000	0.0000	100
101 *	-1.91	4.62	0.0	100.0	0.0000	0.0000	101

102	*		-2.30	5.54	0.0		100.0	0.0000	0.0000	102
103	*		-2.68	6.47	0.0		100.0	0.0000	0.0000	103
104	*		-3.06	7.39	0.0		100.0	0.0000	0.0000	104
105			-3.44	8.31	0.0		200.0	0.0000	0.0000	105
106			-3.83	9.24	0.0		200.0	0.0000	0.0000	106
107			-5.74	13.86	0.0		200.0	0.0000	0.0000	107
108			-7.76	18.48	0.0		200.0	0.0000	0.0000	108
109			-9.57	23.10	0.0		200.0	0.0000	0.0000	109
110			-11.48	27.72	0.0		200.0	0.0000	0.0000	110
111			-15.31	36.96	0.0		200.0	0.0000	0.0000	111
112			-19.13	46.19	0.0		200.0	0.0000	0.0000	112
113	*		0.00	1.00	0.0		100.0	0.0000	0.0000	113
114	*		0.00	2.00	0.0		100.0	0.0000	0.0000	114
115	*		0.00	3.00	0.0		100.0	0.0000	0.0000	115
116	*		0.00	4.00	0.0		100.0	0.0000	0.0000	116
117	*		0.00	5.00	0.0		100.0	0.0000	0.0000	117
118	*		0.00	6.00	0.0		100.0	0.0000	0.0000	118
119	*		0.00	7.00	0.0		100.0	0.0000	0.0000	119
120	*		0.00	8.00	0.0		100.0	0.0000	0.0000	120
121	*		0.00	9.00	0.0		100.0	0.0000	0.0000	121
122	*		0.00	10.00	0.0		100.0	0.0000	0.0000	122
123	*		0.00	15.00	0.0		100.0	0.0000	0.0000	123
124	*		0.00	20.00	0.0		100.0	0.0000	0.0000	124
125	*		0.00	25.00	0.0		100.0	0.0000	0.0000	125
126			0.00	30.00	0.0		200.0	0.0000	0.0000	126
127			0.00	40.00	0.0		200.0	0.0000	0.0000	127
128			0.00	50.00	0.0		200.0	0.0000	0.0000	128

Susitna DEIS Comments
Willow Site Coal Fired Plant
Worst Case Impacts for SO2 Using Worst Case Coal

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 84/ 1 : HOUR 11

HOUR	THETA (DEG)	SPEED (M/S)	MIXING HEIGHT(M)	TEMP (K)	STABILITY CLASS
11	225.00	2.50	1000.00	273.00	4

1 2 3 4 5 6 7 8 9 10

FINAL HT (M) 493.81
DIST FIN HT (KM) 1.256

RECEPTOR NO. NAME	EAST COORD	NORTH COORD	RECEPTOR HT ABV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1 *	-0.38	-0.92	0.0	140.0	0.0000	0.0000	1
2 *	-0.77	-1.85	0.0	130.0	0.0000	0.0000	2
3 *	-1.15	-2.77	0.0	120.0	0.0000	0.0000	3
4 *	-1.53	-3.70	0.0	110.0	0.0000	0.0000	4
5 *	-1.91	-4.62	0.0	100.0	0.0000	0.0000	5
6 *	-2.30	-5.54	0.0	90.0	0.0000	0.0000	6
7 *	-2.68	-6.47	0.0	80.0	0.0000	0.0000	7
8 *	-3.06	-7.39	0.0	80.0	0.0000	0.0000	8
9 *	-3.44	-8.31	0.0	80.0	0.0000	0.0000	9
10 *	-3.83	-9.24	0.0	80.0	0.0000	0.0000	10
11	-5.74	-13.86	0.0	150.0	0.0000	0.0000	11
12	-7.76	-18.48	0.0	150.0	0.0000	0.0000	12
13 *	-9.57	-23.10	0.0	140.0	0.0000	0.0000	13
14 *	-11.48	-27.72	0.0	130.0	0.0000	0.0000	14
15 *	-15.31	-36.96	0.0	100.0	0.0000	0.0000	15
16 *	-19.13	-46.19	0.0	30.0	0.0000	0.0000	16
17 *	-0.71	-0.71	0.0	100.0	0.0000	0.0000	17
18 *	-1.41	-1.41	0.0	100.0	0.0000	0.0000	18
19 *	-2.12	-2.12	0.0	100.0	0.0000	0.0000	19
20 *	-2.83	-2.83	0.0	100.0	0.0000	0.0000	20
21 *	-3.54	-3.54	0.0	100.0	0.0000	0.0000	21
22 *	-4.24	-4.24	0.0	100.0	0.0000	0.0000	22
23 *	-4.95	-4.95	0.0	100.0	0.0000	0.0000	23
24 *	-5.66	-5.66	0.0	100.0	0.0000	0.0000	24
25 *	-6.36	-6.36	0.0	100.0	0.0000	0.0000	25
26 *	-7.07	-7.07	0.0	100.0	0.0000	0.0000	26
27 *	-10.61	-10.61	0.0	100.0	0.0000	0.0000	27
28	-14.14	-14.14	0.0	200.0	0.0000	0.0000	28
29	-17.68	-17.68	0.0	200.0	0.0000	0.0000	29
30 *	-21.21	-21.21	0.0	100.0	0.0000	0.0000	30
31 *	-28.28	-28.28	0.0	100.0	0.0000	0.0000	31
32**	-35.36	-35.36	0.0	3000.0	0.0000	0.0000	32
33 *	-0.92	-0.38	0.0	100.0	0.0000	0.0000	33
34 *	-1.85	-0.77	0.0	100.0	0.0000	0.0000	34
35 *	-2.77	-1.15	0.0	100.0	0.0000	0.0000	35
36 *	-3.70	-1.53	0.0	100.0	0.0000	0.0000	36
37 *	-4.62	-1.91	0.0	100.0	0.0000	0.0000	37
38 *	-5.54	-2.30	0.0	100.0	0.0000	0.0000	38
39 *	-6.47	-2.68	0.0	100.0	0.0000	0.0000	39
40 *	-7.39	-3.06	0.0	100.0	0.0000	0.0000	40

28

41	*	-8.31	-3.44	0.0	100.0	0.0000	0.0000	41
42	*	-9.24	-3.83	0.0	100.0	0.0000	0.0000	42
43		-13.86	-5.74	0.0	200.0	0.0000	0.0000	43
44		-18.48	-7.65	0.0	200.0	0.0000	0.0000	44
45		-23.10	-9.57	0.0	200.0	0.0000	0.0000	45
46	*	-27.72	-11.48	0.0	100.0	0.0000	0.0000	46
47		-36.96	-15.31	0.0	200.0	0.0000	0.0000	47
48	**	-46.19	-19.13	0.0	600.0	0.0000	0.0000	48
49	*	-1.00	0.00	0.0	100.0	0.0000	0.0000	49
50	*	-2.00	0.00	0.0	100.0	0.0000	0.0000	50
51	*	-3.00	0.00	0.0	100.0	0.0000	0.0000	51
52	*	-4.00	0.00	0.0	100.0	0.0000	0.0000	52
53	*	-5.00	0.00	0.0	100.0	0.0000	0.0000	53
54	*	-6.00	0.00	0.0	100.0	0.0000	0.0000	54
55	*	-7.00	0.00	0.0	100.0	0.0000	0.0000	55
56	*	-8.00	0.00	0.0	100.0	0.0000	0.0000	56
57	*	-9.00	0.00	0.0	100.0	0.0000	0.0000	57
58	*	-10.00	0.00	0.0	100.0	0.0000	0.0000	58
59		-15.00	0.00	0.0	200.0	0.0000	0.0000	59
60		-20.00	0.00	0.0	200.0	0.0000	0.0000	60
61		-25.00	0.00	0.0	200.0	0.0000	0.0000	61
62	*	-30.00	0.00	0.0	130.0	0.0000	0.0000	62
63		-40.00	0.00	0.0	200.0	0.0000	0.0000	63
64		-50.00	0.00	0.0	200.0	0.0000	0.0000	64
65	*	-0.92	0.38	0.0	100.0	0.0000	0.0000	65
66	*	-1.85	0.77	0.0	100.0	0.0000	0.0000	66
67	*	-2.77	1.15	0.0	100.0	0.0000	0.0000	67
68	*	-3.70	1.53	0.0	100.0	0.0000	0.0000	68
69	*	-4.62	1.91	0.0	100.0	0.0000	0.0000	69
70	*	-5.54	2.30	0.0	100.0	0.0000	0.0000	70
71	*	-6.47	2.68	0.0	100.0	0.0000	0.0000	71
72	*	-7.39	3.06	0.0	100.0	0.0000	0.0000	72
73	*	-8.31	3.44	0.0	100.0	0.0000	0.0000	73
74	*	-9.24	3.83	0.0	100.0	0.0000	0.0000	74
75		-13.86	5.74	0.0	180.0	0.0000	0.0000	75
76		-18.48	7.65	0.0	200.0	0.0000	0.0000	76
77		-23.10	9.57	0.0	400.0	0.0000	0.0000	77
78		-27.72	11.48	0.0	300.0	0.0000	0.0000	78
79		-36.96	15.31	0.0	200.0	0.0000	0.0000	79
80		-46.19	19.13	0.0	200.0	0.0000	0.0000	80
81		-0.71	0.71	0.0	150.0	0.0000	0.0000	81
82	*	-1.41	1.41	0.0	100.0	0.0000	0.0000	82
83	*	-2.12	2.12	0.0	100.0	0.0000	0.0000	83
84	*	-2.83	2.83	0.0	100.0	0.0000	0.0000	84
85	*	-3.54	3.54	0.0	100.0	0.0000	0.0000	85
86	*	-4.24	4.24	0.0	100.0	0.0000	0.0000	86
87	*	-4.95	4.95	0.0	100.0	0.0000	0.0000	87
88	*	-5.66	5.66	0.0	100.0	0.0000	0.0000	88
89		-6.36	6.36	0.0	200.0	0.0000	0.0000	89
90		-7.07	7.07	0.0	200.0	0.0000	0.0000	90
91		-10.61	10.61	0.0	200.0	0.0000	0.0000	91
92		-14.14	14.14	0.0	200.0	0.0000	0.0000	92
93		-17.68	17.68	0.0	200.0	0.0000	0.0000	93
94		-21.21	21.21	0.0	200.0	0.0000	0.0000	94
95		-28.28	28.28	0.0	200.0	0.0000	0.0000	95
96		-35.36	35.36	0.0	200.0	0.0000	0.0000	96
97	*	-0.38	0.92	0.0	100.0	0.0000	0.0000	97
98	*	-0.77	1.85	0.0	100.0	0.0000	0.0000	98
99	*	-1.15	2.77	0.0	100.0	0.0000	0.0000	99
100	*	-1.53	3.70	0.0	100.0	0.0000	0.0000	100
101	*	-1.91	4.62	0.0	100.0	0.0000	0.0000	101

88

102 *	-2.30	5.54	0.0	100.0	0.0000	0.0000	102
103 *	-2.68	6.47	0.0	100.0	0.0000	0.0000	103
104 *	-3.06	7.39	0.0	100.0	0.0000	0.0000	104
105	-3.44	8.31	0.0	200.0	0.0000	0.0000	105
106	-3.83	9.24	0.0	200.0	0.0000	0.0000	106
107	-5.74	13.86	0.0	200.0	0.0000	0.0000	107
108	-7.76	18.48	0.0	200.0	0.0000	0.0000	108
109	-9.57	23.10	0.0	200.0	0.0000	0.0000	109
110	-11.48	27.72	0.0	200.0	0.0000	0.0000	110
111	-15.31	36.96	0.0	200.0	0.0000	0.0000	111
112	-19.13	46.19	0.0	200.0	0.0000	0.0000	112
113 *	0.00	1.00	0.0	100.0	0.0000	0.0000	113
114 *	0.00	2.00	0.0	100.0	0.0000	0.0000	114
115 *	0.00	3.00	0.0	100.0	0.0000	0.0000	115
116 *	0.00	4.00	0.0	100.0	0.0000	0.0000	116
117 *	0.00	5.00	0.0	100.0	0.0000	0.0000	117
118 *	0.00	6.00	0.0	100.0	0.0000	0.0000	118
119 *	0.00	7.00	0.0	100.0	0.0000	0.0000	119
120 *	0.00	8.00	0.0	100.0	0.0000	0.0000	120
121 *	0.00	9.00	0.0	100.0	0.0000	0.0000	121
122 *	0.00	10.00	0.0	100.0	0.0000	0.0000	122
123 *	0.00	15.00	0.0	100.0	0.0000	0.0000	123
124 *	0.00	20.00	0.0	100.0	0.0000	0.0000	124
125 *	0.00	25.00	0.0	100.0	0.0000	0.0000	125
126	0.00	30.00	0.0	200.0	0.0000	0.0000	126
127	0.00	40.00	0.0	200.0	0.0000	0.0000	127
128	0.00	50.00	0.0	200.0	0.0000	0.0000	128

Susitna DEIS Comments
Willow Site Coal Fired Plant
Worst Case Impacts for SO2 Using Worst Case Coal

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 84/ 1 : HOUR 12

HOUR	THETA (DEG)	SPEED (M/S)	MIXING HEIGHT(M)	TEMP (K)	STABILITY CLASS
12	247.50	2.30	1000.00	273.00	4

	1	2	3	4	5	6	7	8	9	10
FINAL HT (M)	525.09									
DIST FIN HT (KM)	1.256									

RECEPTOR NO.	NAME	EAST COORD	NORTH COORD	RECEPTOR HT ABV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1	*	-0.38	-0.92	0.0	140.0	0.0000	0.0000	1
2	*	-0.77	-1.85	0.0	130.0	0.0000	0.0000	2
3	*	-1.15	-2.77	0.0	120.0	0.0000	0.0000	3
4	*	-1.53	-3.70	0.0	110.0	0.0000	0.0000	4
5	*	-1.91	-4.62	0.0	100.0	0.0000	0.0000	5
6	*	-2.30	-5.54	0.0	90.0	0.0000	0.0000	6
7	*	-2.68	-6.47	0.0	80.0	0.0000	0.0000	7
8	*	-3.06	-7.39	0.0	80.0	0.0000	0.0000	8
9	*	-3.44	-8.31	0.0	80.0	0.0000	0.0000	9
10	*	-3.83	-9.24	0.0	80.0	0.0000	0.0000	10
11		-5.74	-13.86	0.0	150.0	0.0000	0.0000	11
12		-7.76	-18.48	0.0	150.0	0.0000	0.0000	12
13	*	-9.57	-23.10	0.0	140.0	0.0000	0.0000	13
14	*	-11.48	-27.72	0.0	130.0	0.0000	0.0000	14
15	*	-15.31	-36.96	0.0	100.0	0.0000	0.0000	15
16	*	-19.13	-46.19	0.0	30.0	0.0000	0.0000	16
17	*	-0.71	-0.71	0.0	100.0	0.0000	0.0000	17
18	*	-1.41	-1.41	0.0	100.0	0.0000	0.0000	18
19	*	-2.12	-2.12	0.0	100.0	0.0000	0.0000	19
20	*	-2.83	-2.83	0.0	100.0	0.0000	0.0000	20
21	*	-3.54	-3.54	0.0	100.0	0.0000	0.0000	21
22	*	-4.24	-4.24	0.0	100.0	0.0000	0.0000	22
23	*	-4.95	-4.95	0.0	100.0	0.0000	0.0000	23
24	*	-5.66	-5.66	0.0	100.0	0.0000	0.0000	24
25	*	-6.36	-6.36	0.0	100.0	0.0000	0.0000	25
26	*	-7.07	-7.07	0.0	100.0	0.0000	0.0000	26
27	*	-10.61	-10.61	0.0	100.0	0.0000	0.0000	27
28		-14.14	-14.14	0.0	200.0	0.0000	0.0000	28
29		-17.68	-17.68	0.0	200.0	0.0000	0.0000	29
30	*	-21.21	-21.21	0.0	100.0	0.0000	0.0000	30
31	*	-28.28	-28.28	0.0	100.0	0.0000	0.0000	31
32	**	-35.36	-35.36	0.0	3000.0	0.0000	0.0000	32
33	*	-0.92	-0.38	0.0	100.0	0.0000	0.0000	33
34	*	-1.85	-0.77	0.0	100.0	0.0000	0.0000	34
35	*	-2.77	-1.15	0.0	100.0	0.0000	0.0000	35
36	*	-3.70	-1.53	0.0	100.0	0.0000	0.0000	36
37	*	-4.62	-1.91	0.0	100.0	0.0000	0.0000	37
38	*	-5.54	-2.30	0.0	100.0	0.0000	0.0000	38
39	*	-6.47	-2.68	0.0	100.0	0.0000	0.0000	39
40	*	-7.39	-3.06	0.0	100.0	0.0000	0.0000	40

41	*		-8.31	-3.44		0.0			100.0		0.0000		0.0000		41		
42	*		-9.24	-3.83		0.0			100.0		0.0000		0.0000		42		
43			-13.86	-5.74		0.0			200.0		0.0000		0.0000		43		
44			-18.48	-7.65		0.0			200.0		0.0000		0.0000		44		
45			-23.10	-9.57		0.0			200.0		0.0000		0.0000		45		
46	*		-27.72	-11.48		0.0			100.0		0.0000		0.0000		46		
47			-36.96	-15.31		0.0			200.0		0.0000		0.0000		47		
48	**		-46.19	-19.13		0.0			600.0		0.0000		0.0000		48		
49	*		-1.00	0.00		0.0			100.0		0.0000		0.0000		49		
50	*		-2.00	0.00		0.0			100.0		0.0000		0.0000		50		
51	*		-3.00	0.00		0.0			100.0		0.0000		0.0000		51		
52	*		-4.00	0.00		0.0			100.0		0.0000		0.0000		52		
53	*		-5.00	0.00		0.0			100.0		0.0000		0.0000		53		
54	*		-6.00	0.00		0.0			100.0		0.0000		0.0000		54		
55	*		-7.00	0.00		0.0			100.0		0.0000		0.0000		55		
56	*		-8.00	0.00		0.0			100.0		0.0000		0.0000		56		
57	*		-9.00	0.00		0.0			100.0		0.0000		0.0000		57		
58	*		-10.00	0.00		0.0			100.0		0.0000		0.0000		58		
59			-15.00	0.00		0.0			200.0		0.0000		0.0000		59		
60			-20.00	0.00		0.0			200.0		0.0000		0.0000		60		
61			-25.00	0.00		0.0			200.0		0.0000		0.0000		61		
62	*		-30.00	0.00		0.0			130.0		0.0000		0.0000		62		
63			-40.00	0.00		0.0			200.0		0.0000		0.0000		63		
64			-50.00	0.00		0.0			200.0		0.0000		0.0000		64		
65	*		-0.92	0.38		0.0			100.0		0.0000		0.0000		65		
66	*		-1.85	0.77		0.0			100.0		0.0000		0.0000		66		
67	*		-2.77	1.15		0.0			100.0		0.0000		0.0000		67		
68	*		-3.70	1.53		0.0			100.0		0.0000		0.0000		68		
69	*		-4.62	1.91		0.0			100.0		0.0000		0.0000		69		
70	*		-5.54	2.30		0.0			100.0		0.0000		0.0000		70		
71	*		-6.47	2.68		0.0			100.0		0.0000		0.0000		71		
72	*		-7.39	3.06		0.0			100.0		0.0000		0.0000		72		
73	*		-8.31	3.44		0.0			100.0		0.0000		0.0000		73		
74	*		-9.24	3.83		0.0			100.0		0.0000		0.0000		74		
75			-13.86	5.74		0.0			180.0		0.0000		0.0000		75		
76			-18.48	7.65		0.0			200.0		0.0000		0.0000		76		
77			-23.10	9.57		0.0			400.0		0.0000		0.0000		77		
78			-27.72	11.48		0.0			300.0		0.0000		0.0000		78		
79			-36.96	15.31		0.0			200.0		0.0000		0.0000		79		
80			-46.19	19.13		0.0			200.0		0.0000		0.0000		80		
81			-0.71	0.71		0.0			150.0		0.0000		0.0000		81		
82	*		-1.41	1.41		0.0			100.0		0.0000		0.0000		82		
83	*		-2.12	2.12		0.0			100.0		0.0000		0.0000		83		
84	*		-2.83	2.83		0.0			100.0		0.0000		0.0000		84		
85	*		-3.54	3.54		0.0			100.0		0.0000		0.0000		85		
86	*		-4.24	4.24		0.0			100.0		0.0000		0.0000		86		
87	*		-4.95	4.95		0.0			100.0		0.0000		0.0000		87		
88	*		-5.66	5.66		0.0			100.0		0.0000		0.0000		88		
89			-6.36	6.36		0.0			200.0		0.0000		0.0000		89		
90			-7.07	7.07		0.0			200.0		0.0000		0.0000		90		
91			-10.61	10.61		0.0			200.0		0.0000		0.0000		91		
92			-14.14	14.14		0.0			200.0		0.0000		0.0000		92		
93			-17.68	17.68		0.0			200.0		0.0000		0.0000		93		
94			-21.21	21.21		0.0			200.0		0.0000		0.0000		94		
95			-28.28	28.28		0.0			200.0		0.0000		0.0000		95		
96			-35.36	35.36		0.0			200.0		0.0000		0.0000		96		
97	*		-0.38	0.92		0.0			100.0		0.0000		0.0000		97		
98	*		-0.77	1.85		0.0			100.0		0.0000		0.0000		98		
99	*		-1.15	2.77		0.0			100.0		0.0000		0.0000		99		
100	*		-1.53	3.70		0.0			100.0		0.0000		0.0000		100		
101	*		-1.91	4.62		0.0			100.0		0.0000		0.0000		101		

102 *	-2.30	5.54	0.0	100.0	0.0000	0.0000	102
103 *	-2.68	6.47	0.0	100.0	0.0000	0.0000	103
104 *	-3.06	7.39	0.0	100.0	0.0000	0.0000	104
105	-3.44	8.31	0.0	200.0	0.0000	0.0000	105
106	-3.83	9.24	0.0	200.0	0.0000	0.0000	106
107	-5.74	13.86	0.0	200.0	0.0000	0.0000	107
108	-7.76	18.48	0.0	200.0	0.0000	0.0000	108
109	-9.57	23.10	0.0	200.0	0.0000	0.0000	109
110	-11.48	27.72	0.0	200.0	0.0000	0.0000	110
111	-15.31	36.96	0.0	200.0	0.0000	0.0000	111
112	-19.13	46.19	0.0	200.0	0.0000	0.0000	112
113 *	0.00	1.00	0.0	100.0	0.0000	0.0000	113
114 *	0.00	2.00	0.0	100.0	0.0000	0.0000	114
115 *	0.00	3.00	0.0	100.0	0.0000	0.0000	115
116 *	0.00	4.00	0.0	100.0	0.0000	0.0000	116
117 *	0.00	5.00	0.0	100.0	0.0000	0.0000	117
118 *	0.00	6.00	0.0	100.0	0.0000	0.0000	118
119 *	0.00	7.00	0.0	100.0	0.0000	0.0000	119
120 *	0.00	8.00	0.0	100.0	0.0000	0.0000	120
121 *	0.00	9.00	0.0	100.0	0.0000	0.0000	121
122 *	0.00	10.00	0.0	100.0	0.0000	0.0000	122
123 *	0.00	15.00	0.0	100.0	0.0000	0.0000	123
124 *	0.00	20.00	0.0	100.0	0.0000	0.0000	124
125 *	0.00	25.00	0.0	100.0	0.0000	0.0000	125
126	0.00	30.00	0.0	200.0	0.0000	0.0000	126
127	0.00	40.00	0.0	200.0	0.0000	0.0000	127
128	0.00	50.00	0.0	200.0	0.0000	0.0000	128

Susitna DEIS Comments
Willow Site Coal Fired Plant
Worst Case Impacts for SO2 Using Worst Case Coal

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 84/ 1 : HOUR 13

HOUR	THETA (DEG)	SPEED (M/S)	MIXING HEIGHT(M)	TEMP (K)	STABILITY CLASS
13	270.00	2.60	1000.00	273.00	4

	1	2	3	4	5	6	7	8	9	10
FINAL HT (M)	479.97									
DIST FIN HT (KM)	1.256									

RECEPTOR NO.	NAME	EAST COORD	NORTH COORD	RECEPTOR HT ABV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1	*	-0.38	-0.92	0.0	140.0	0.0000	0.0000	1
2	*	-0.77	-1.85	0.0	130.0	0.0000	0.0000	2
3	*	-1.15	-2.77	0.0	120.0	0.0000	0.0000	3
4	*	-1.53	-3.70	0.0	110.0	0.0000	0.0000	4
5	*	-1.91	-4.62	0.0	100.0	0.0000	0.0000	5
6	*	-2.30	-5.54	0.0	90.0	0.0000	0.0000	6
7	*	-2.68	-6.47	0.0	80.0	0.0000	0.0000	7
8	*	-3.06	-7.39	0.0	80.0	0.0000	0.0000	8
9	*	-3.44	-8.31	0.0	80.0	0.0000	0.0000	9
10	*	-3.83	-9.24	0.0	80.0	0.0000	0.0000	10
11		-5.74	-13.86	0.0	150.0	0.0000	0.0000	11
12		-7.76	-18.48	0.0	150.0	0.0000	0.0000	12
13	*	-9.57	-23.10	0.0	140.0	0.0000	0.0000	13
14	*	-11.48	-27.72	0.0	130.0	0.0000	0.0000	14
15	*	-15.31	-36.96	0.0	100.0	0.0000	0.0000	15
16	*	-19.13	-46.19	0.0	30.0	0.0000	0.0000	16
17	*	-0.71	-0.71	0.0	100.0	0.0000	0.0000	17
18	*	-1.41	-1.41	0.0	100.0	0.0000	0.0000	18
19	*	-2.12	-2.12	0.0	100.0	0.0000	0.0000	19
20	*	-2.83	-2.83	0.0	100.0	0.0000	0.0000	20
21	*	-3.54	-3.54	0.0	100.0	0.0000	0.0000	21
22	*	-4.24	-4.24	0.0	100.0	0.0000	0.0000	22
23	*	-4.95	-4.95	0.0	100.0	0.0000	0.0000	23
24	*	-5.66	-5.66	0.0	100.0	0.0000	0.0000	24
25	*	-6.36	-6.36	0.0	100.0	0.0000	0.0000	25
26	*	-7.07	-7.07	0.0	100.0	0.0000	0.0000	26
27	*	-10.61	-10.61	0.0	100.0	0.0000	0.0000	27
28		-14.14	-14.14	0.0	200.0	0.0000	0.0000	28
29		-17.68	-17.68	0.0	200.0	0.0000	0.0000	29
30	*	-21.21	-21.21	0.0	100.0	0.0000	0.0000	30
31	*	-28.28	-28.28	0.0	100.0	0.0000	0.0000	31
32	**	-35.36	-35.36	0.0	3000.0	0.0000	0.0000	32
33	*	-0.92	-0.38	0.0	100.0	0.0000	0.0000	33
34	*	-1.85	-0.77	0.0	100.0	0.0000	0.0000	34
35	*	-2.77	-1.15	0.0	100.0	0.0000	0.0000	35
36	*	-3.70	-1.53	0.0	100.0	0.0000	0.0000	36
37	*	-4.62	-1.91	0.0	100.0	0.0000	0.0000	37
38	*	-5.54	-2.30	0.0	100.0	0.0000	0.0000	38
39	*	-6.47	-2.68	0.0	100.0	0.0000	0.0000	39
40	*	-7.39	-3.06	0.0	100.0	0.0000	0.0000	40

63

41 *	-8.31	-3.44	0.0	100.0	0.0000	0.0000	41
42 *	-9.24	-3.83	0.0	100.0	0.0000	0.0000	42
43	-13.86	-5.74	0.0	200.0	0.0000	0.0000	43
44	-18.48	-7.65	0.0	200.0	0.0000	0.0000	44
45	-23.10	-9.57	0.0	200.0	0.0000	0.0000	45
46 *	-27.72	-11.48	0.0	100.0	0.0000	0.0000	46
47	-36.96	-15.31	0.0	200.0	0.0000	0.0000	47
48**	-46.19	-19.13	0.0	600.0	0.0000	0.0000	48
49 *	-1.00	0.00	0.0	100.0	0.0000	0.0000	49
50 *	-2.00	0.00	0.0	100.0	0.0000	0.0000	50
51 *	-3.00	0.00	0.0	100.0	0.0000	0.0000	51
52 *	-4.00	0.00	0.0	100.0	0.0000	0.0000	52
53 *	-5.00	0.00	0.0	100.0	0.0000	0.0000	53
54 *	-6.00	0.00	0.0	100.0	0.0000	0.0000	54
55 *	-7.00	0.00	0.0	100.0	0.0000	0.0000	55
56 *	-8.00	0.00	0.0	100.0	0.0000	0.0000	56
57 *	-9.00	0.00	0.0	100.0	0.0000	0.0000	57
58 *	-10.00	0.00	0.0	100.0	0.0000	0.0000	58
59	-15.00	0.00	0.0	200.0	0.0000	0.0000	59
60	-20.00	0.00	0.0	200.0	0.0000	0.0000	60
61	-25.00	0.00	0.0	200.0	0.0000	0.0000	61
62 *	-30.00	0.00	0.0	130.0	0.0000	0.0000	62
63	-40.00	0.00	0.0	200.0	0.0000	0.0000	63
64	-50.00	0.00	0.0	200.0	0.0000	0.0000	64
65 *	-0.92	0.38	0.0	100.0	0.0000	0.0000	65
66 *	-1.85	0.77	0.0	100.0	0.0000	0.0000	66
67 *	-2.77	1.15	0.0	100.0	0.0000	0.0000	67
68 *	-3.70	1.53	0.0	100.0	0.0000	0.0000	68
69 *	-4.62	1.91	0.0	100.0	0.0000	0.0000	69
70 *	-5.54	2.30	0.0	100.0	0.0000	0.0000	70
71 *	-6.47	2.68	0.0	100.0	0.0000	0.0000	71
72 *	-7.39	3.06	0.0	100.0	0.0000	0.0000	72
73 *	-8.31	3.44	0.0	100.0	0.0000	0.0000	73
74 *	-9.24	3.83	0.0	100.0	0.0000	0.0000	74
75	-13.86	5.74	0.0	180.0	0.0000	0.0000	75
76	-18.48	7.65	0.0	200.0	0.0000	0.0000	76
77	-23.10	9.57	0.0	400.0	0.0000	0.0000	77
78	-27.72	11.48	0.0	300.0	0.0000	0.0000	78
79	-36.96	15.31	0.0	200.0	0.0000	0.0000	79
80	-46.19	19.13	0.0	200.0	0.0000	0.0000	80
81	-0.71	0.71	0.0	150.0	0.0000	0.0000	81
82 *	-1.41	1.41	0.0	100.0	0.0000	0.0000	82
83 *	-2.12	2.12	0.0	100.0	0.0000	0.0000	83
84 *	-2.83	2.83	0.0	100.0	0.0000	0.0000	84
85 *	-3.54	3.54	0.0	100.0	0.0000	0.0000	85
86 *	-4.24	4.24	0.0	100.0	0.0000	0.0000	86
87 *	-4.95	4.95	0.0	100.0	0.0000	0.0000	87
88 *	-5.66	5.66	0.0	100.0	0.0000	0.0000	88
89	-6.36	6.36	0.0	200.0	0.0000	0.0000	89
90	-7.07	7.07	0.0	200.0	0.0000	0.0000	90
91	-10.61	10.61	0.0	200.0	0.0000	0.0000	91
92	-14.14	14.14	0.0	200.0	0.0000	0.0000	92
93	-17.68	17.68	0.0	200.0	0.0000	0.0000	93
94	-21.21	21.21	0.0	200.0	0.0000	0.0000	94
95	-28.28	28.28	0.0	200.0	0.0000	0.0000	95
96	-35.36	35.36	0.0	200.0	0.0000	0.0000	96
97 *	-0.38	0.92	0.0	100.0	0.0000	0.0000	97
98 *	-0.77	1.85	0.0	100.0	0.0000	0.0000	98
99 *	-1.15	2.77	0.0	100.0	0.0000	0.0000	99
100 *	-1.53	3.70	0.0	100.0	0.0000	0.0000	100
101 *	-1.91	4.62	0.0	100.0	0.0000	0.0000	101

102 *	-2.30	5.54	0.0	100.0	0.0000	0.0000	102
103 *	-2.68	6.47	0.0	100.0	0.0000	0.0000	103
104 *	-3.06	7.39	0.0	100.0	0.0000	0.0000	104
105	-3.44	8.31	0.0	200.0	0.0000	0.0000	105
106	-3.83	9.24	0.0	200.0	0.0000	0.0000	106
107	-5.74	13.86	0.0	200.0	0.0000	0.0000	107
108	-7.76	18.48	0.0	200.0	0.0000	0.0000	108
109	-9.57	23.10	0.0	200.0	0.0000	0.0000	109
110	-11.48	27.72	0.0	200.0	0.0000	0.0000	110
111	-15.31	36.96	0.0	200.0	0.0000	0.0000	111
112	-19.13	46.19	0.0	200.0	0.0000	0.0000	112
113 *	0.00	1.00	0.0	100.0	0.0000	0.0000	113
114 *	0.00	2.00	0.0	100.0	0.0000	0.0000	114
115 *	0.00	3.00	0.0	100.0	0.0000	0.0000	115
116 *	0.00	4.00	0.0	100.0	0.0000	0.0000	116
117 *	0.00	5.00	0.0	100.0	0.0000	0.0000	117
118 *	0.00	6.00	0.0	100.0	0.0000	0.0000	118
119 *	0.00	7.00	0.0	100.0	0.0000	0.0000	119
120 *	0.00	8.00	0.0	100.0	0.0000	0.0000	120
121 *	0.00	9.00	0.0	100.0	0.0000	0.0000	121
122 *	0.00	10.00	0.0	100.0	0.0000	0.0000	122
123 *	0.00	15.00	0.0	100.0	0.0000	0.0000	123
124 *	0.00	20.00	0.0	100.0	0.0000	0.0000	124
125 *	0.00	25.00	0.0	100.0	0.0000	0.0000	125
126	0.00	30.00	0.0	200.0	0.0000	0.0000	126
127	0.00	40.00	0.0	200.0	0.0000	0.0000	127
128	0.00	50.00	0.0	200.0	0.0000	0.0000	128

Susitna DEIS Comments
Willow Site Coal Fired Plant
Worst Case Impacts for SO2 Using Worst Case Coal

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 84/ 1 : HOUR 14

HOUR	THETA (DEG)	SPEED (M/S)	MIXING HEIGHT(M)	TEMP (K)	STABILITY CLASS
14	292.50	2.70	1000.00	273.00	4

	1	2	3	4	5	6	7	8	9	10
FINAL HT (M)	467.15									
DIST FIN HT (KM)	1.256									

RECEPTOR NO. NAME	EAST COORD	NORTH COORD	RECEPTOR HT ABV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1 *	-0.38	-0.92	0.0	140.0	0.0000	0.0000	1
2 *	-0.77	-1.85	0.0	130.0	0.0000	0.0000	2
3 *	-1.15	-2.77	0.0	120.0	0.0000	0.0000	3
4 *	-1.53	-3.70	0.0	110.0	0.0000	0.0000	4
5 *	-1.91	-4.62	0.0	100.0	0.0000	0.0000	5
6 *	-2.30	-5.54	0.0	90.0	0.0000	0.0000	6
7 *	-2.68	-6.47	0.0	80.0	0.0000	0.0000	7
8 *	-3.06	-7.39	0.0	80.0	0.0000	0.0000	8
9 *	-3.44	-8.31	0.0	80.0	0.0000	0.0000	9
10 *	-3.83	-9.24	0.0	80.0	0.0000	0.0000	10
11	-5.74	-13.86	0.0	150.0	0.0000	0.0000	11
12	-7.76	-18.48	0.0	150.0	0.0000	0.0000	12
13 *	-9.57	-23.10	0.0	140.0	0.0000	0.0000	13
14 *	-11.48	-27.72	0.0	130.0	0.0000	0.0000	14
15 *	-15.31	-36.96	0.0	100.0	0.0000	0.0000	15
16 *	-19.13	-46.19	0.0	30.0	0.0000	0.0000	16
17 *	-0.71	-0.71	0.0	100.0	0.0000	0.0000	17
18 *	-1.41	-1.41	0.0	100.0	0.0000	0.0000	18
19 *	-2.12	-2.12	0.0	100.0	0.0000	0.0000	19
20 *	-2.83	-2.83	0.0	100.0	0.0000	0.0000	20
21 *	-3.54	-3.54	0.0	100.0	0.0000	0.0000	21
22 *	-4.24	-4.24	0.0	100.0	0.0000	0.0000	22
23 *	-4.95	-4.95	0.0	100.0	0.0000	0.0000	23
24 *	-5.66	-5.66	0.0	100.0	0.0000	0.0000	24
25 *	-6.36	-6.36	0.0	100.0	0.0000	0.0000	25
26 *	-7.07	-7.07	0.0	100.0	0.0000	0.0000	26
27 *	-10.61	-10.61	0.0	100.0	0.0000	0.0000	27
28	-14.14	-14.14	0.0	200.0	0.0000	0.0000	28
29	-17.68	-17.68	0.0	200.0	0.0000	0.0000	29
30 *	-21.21	-21.21	0.0	100.0	0.0000	0.0000	30
31 *	-28.28	-28.28	0.0	100.0	0.0000	0.0000	31
32**	-35.36	-35.36	0.0	3000.0	0.0000	0.0000	32
33 *	-0.92	-0.38	0.0	100.0	0.0000	0.0000	33
34 *	-1.85	-0.77	0.0	100.0	0.0000	0.0000	34
35 *	-2.77	-1.15	0.0	100.0	0.0000	0.0000	35
36 *	-3.70	-1.53	0.0	100.0	0.0000	0.0000	36
37 *	-4.62	-1.91	0.0	100.0	0.0000	0.0000	37
38 *	-5.54	-2.30	0.0	100.0	0.0000	0.0000	38
39 *	-6.47	-2.68	0.0	100.0	0.0000	0.0000	39
40 *	-7.39	-3.06	0.0	100.0	0.0000	0.0000	40

96

41	*		-8.31	-3.44		0.0			100.0		0.0000		0.0000		41		
42	*		-9.24	-3.83		0.0			100.0		0.0000		0.0000		42		
43			-13.86	-5.74		0.0			200.0		0.0000		0.0000		43		
44			-18.48	-7.65		0.0			200.0		0.0000		0.0000		44		
45			-23.10	-9.57		0.0			200.0		0.0000		0.0000		45		
46	*		-27.72	-11.48		0.0			100.0		0.0000		0.0000		46		
47			-36.96	-15.31		0.0			200.0		0.0000		0.0000		47		
48	**		-46.19	-19.13		0.0			600.0		0.0000		0.0000		48		
49	*		-1.00	0.00		0.0			100.0		0.0000		0.0000		49		
50	*		-2.00	0.00		0.0			100.0		0.0000		0.0000		50		
51	*		-3.00	0.00		0.0			100.0		0.0000		0.0000		51		
52	*		-4.00	0.00		0.0			100.0		0.0000		0.0000		52		
53	*		-5.00	0.00		0.0			100.0		0.0000		0.0000		53		
54	*		-6.00	0.00		0.0			100.0		0.0000		0.0000		54		
55	*		-7.00	0.00		0.0			100.0		0.0000		0.0000		55		
56	*		-8.00	0.00		0.0			100.0		0.0000		0.0000		56		
57	*		-9.00	0.00		0.0			100.0		0.0000		0.0000		57		
58	*		-10.00	0.00		0.0			100.0		0.0000		0.0000		58		
59			-15.00	0.00		0.0			200.0		0.0000		0.0000		59		
60			-20.00	0.00		0.0			200.0		0.0000		0.0000		60		
61			-25.00	0.00		0.0			200.0		0.0000		0.0000		61		
62	*		-30.00	0.00		0.0			130.0		0.0000		0.0000		62		
63			-40.00	0.00		0.0			200.0		0.0000		0.0000		63		
64			-50.00	0.00		0.0			200.0		0.0000		0.0000		64		
65	*		-0.92	0.38		0.0			100.0		0.0000		0.0000		65		
66	*		-1.85	0.77		0.0			100.0		0.0000		0.0000		66		
67	*		-2.77	1.15		0.0			100.0		0.0000		0.0000		67		
68	*		-3.70	1.53		0.0			100.0		0.0000		0.0000		68		
69	*		-4.62	1.91		0.0			100.0		0.0000		0.0000		69		
70	*		-5.54	2.30		0.0			100.0		0.0000		0.0000		70		
71	*		-6.47	2.68		0.0			100.0		0.0000		0.0000		71		
72	*		-7.39	3.06		0.0			100.0		0.0000		0.0000		72		
73	*		-8.31	3.44		0.0			100.0		0.0000		0.0000		73		
74	*		-9.24	3.83		0.0			100.0		0.0000		0.0000		74		
75			-13.86	5.74		0.0			180.0		0.0000		0.0000		75		
76			-18.48	7.65		0.0			200.0		0.0000		0.0000		76		
77			-23.10	9.57		0.0			400.0		0.0000		0.0000		77		
78			-27.72	11.48		0.0			300.0		0.0000		0.0000		78		
79			-36.96	15.31		0.0			200.0		0.0000		0.0000		79		
80			-46.19	19.13		0.0			200.0		0.0000		0.0000		80		
81			-0.71	0.71		0.0			150.0		0.0000		0.0000		81		
82	*		-1.41	1.41		0.0			100.0		0.0000		0.0000		82		
83	*		-2.12	2.12		0.0			100.0		0.0000		0.0000		83		
84	*		-2.83	2.83		0.0			100.0		0.0000		0.0000		84		
85	*		-3.54	3.54		0.0			100.0		0.0000		0.0000		85		
86	*		-4.24	4.24		0.0			100.0		0.0000		0.0000		86		
87	*		-4.95	4.95		0.0			100.0		0.0000		0.0000		87		
88	*		-5.66	5.66		0.0			100.0		0.0000		0.0000		88		
89			-6.36	6.36		0.0			200.0		0.0000		0.0000		89		
90			-7.07	7.07		0.0			200.0		0.0000		0.0000		90		
91			-10.61	10.61		0.0			200.0		0.0000		0.0000		91		
92			-14.14	14.14		0.0			200.0		0.0000		0.0000		92		
93			-17.68	17.68		0.0			200.0		0.0000		0.0000		93		
94			-21.21	21.21		0.0			200.0		0.0000		0.0000		94		
95			-28.28	28.28		0.0			200.0		0.0000		0.0000		95		
96			-35.36	35.36		0.0			200.0		0.0000		0.0000		96		
97	*		-0.38	0.92		0.0			100.0		0.0000		0.0000		97		
98	*		-0.77	1.85		0.0			100.0		0.0000		0.0000		98		
99	*		-1.15	2.77		0.0			100.0		0.0000		0.0000		99		
100	*		-1.53	3.70		0.0			100.0		0.0000		0.0000		100		
101	*		-1.91	4.62		0.0			100.0		0.0000		0.0000		101		

102 *	-2.30	5.54	0.0	100.0	0.0000	0.0000	102
103 *	-2.68	6.47	0.0	100.0	0.0000	0.0000	103
104 *	-3.06	7.39	0.0	100.0	0.0000	0.0000	104
105	-3.44	8.31	0.0	200.0	0.0000	0.0000	105
106	-3.83	9.24	0.0	200.0	0.0000	0.0000	106
107	-5.74	13.86	0.0	200.0	0.0000	0.0000	107
108	-7.76	18.48	0.0	200.0	0.0000	0.0000	108
109	-9.57	23.10	0.0	200.0	0.0000	0.0000	109
110	-11.48	27.72	0.0	200.0	0.0000	0.0000	110
111	-15.31	36.96	0.0	200.0	0.0000	0.0000	111
112	-19.13	46.19	0.0	200.0	0.0000	0.0000	112
113 *	0.00	1.00	0.0	100.0	0.0000	0.0000	113
114 *	0.00	2.00	0.0	100.0	0.0000	0.0000	114
115 *	0.00	3.00	0.0	100.0	0.0000	0.0000	115
116 *	0.00	4.00	0.0	100.0	0.0000	0.0000	116
117 *	0.00	5.00	0.0	100.0	0.0000	0.0000	117
118 *	0.00	6.00	0.0	100.0	0.0000	0.0000	118
119 *	0.00	7.00	0.0	100.0	0.0000	0.0000	119
120 *	0.00	8.00	0.0	100.0	0.0000	0.0000	120
121 *	0.00	9.00	0.0	100.0	0.0000	0.0000	121
122 *	0.00	10.00	0.0	100.0	0.0000	0.0000	122
123 *	0.00	15.00	0.0	100.0	0.0000	0.0000	123
124 *	0.00	20.00	0.0	100.0	0.0000	0.0000	124
125 *	0.00	25.00	0.0	100.0	0.0000	0.0000	125
126	0.00	30.00	0.0	200.0	0.0000	0.0000	126
127	0.00	40.00	0.0	200.0	0.0000	0.0000	127
128	0.00	50.00	0.0	200.0	0.0000	0.0000	128

Susitna DEIS Comments
Willow Site Coal Fired Plant
Worst Case Impacts for SO2 Using Worst Case Coal

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 84/ 1 : HOUR 15

HOUR	THETA (DEG)	SPEED (M/S)	MIXING HEIGHT(M)	TEMP (K)	STABILITY CLASS
15	315.00	2.70	1000.00	273.00	4

	1	2	3	4	5	6	7	8	9	10
FINAL HT (M)	467.15									
DIST FIN HT (KM)	1.256									

RECEPTOR NO. NAME	EAST COORD	NORTH COORD	RECEPTOR HT ABV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1 *	-0.38	-0.92	0.0	140.0	0.0000	0.0000	1
2 *	-0.77	-1.85	0.0	130.0	0.0000	0.0000	2
3 *	-1.15	-2.77	0.0	120.0	0.0000	0.0000	3
4 *	-1.53	-3.70	0.0	110.0	0.0000	0.0000	4
5 *	-1.91	-4.62	0.0	100.0	0.0000	0.0000	5
6 *	-2.30	-5.54	0.0	90.0	0.0000	0.0000	6
7 *	-2.68	-6.47	0.0	80.0	0.0000	0.0000	7
8 *	-3.06	-7.39	0.0	80.0	0.0000	0.0000	8
9 *	-3.44	-8.31	0.0	80.0	0.0000	0.0000	9
10 *	-3.83	-9.24	0.0	80.0	0.0000	0.0000	10
11	-5.74	-13.86	0.0	150.0	0.0000	0.0000	11
12	-7.76	-18.48	0.0	150.0	0.0000	0.0000	12
13 *	-9.57	-23.10	0.0	140.0	0.0000	0.0000	13
14 *	-11.48	-27.72	0.0	130.0	0.0000	0.0000	14
15 *	-15.31	-36.96	0.0	100.0	0.0000	0.0000	15
16 *	-19.13	-46.19	0.0	30.0	0.0000	0.0000	16
17 *	-0.71	-0.71	0.0	100.0	0.0000	0.0000	17
18 *	-1.41	-1.41	0.0	100.0	0.0000	0.0000	18
19 *	-2.12	-2.12	0.0	100.0	0.0000	0.0000	19
20 *	-2.83	-2.83	0.0	100.0	0.0000	0.0000	20
21 *	-3.54	-3.54	0.0	100.0	0.0000	0.0000	21
22 *	-4.24	-4.24	0.0	100.0	0.0000	0.0000	22
23 *	-4.95	-4.95	0.0	100.0	0.0000	0.0000	23
24 *	-5.66	-5.66	0.0	100.0	0.0000	0.0000	24
25 *	-6.36	-6.36	0.0	100.0	0.0000	0.0000	25
26 *	-7.07	-7.07	0.0	100.0	0.0000	0.0000	26
27 *	-10.61	-10.61	0.0	100.0	0.0000	0.0000	27
28	-14.14	-14.14	0.0	200.0	0.0000	0.0000	28
29	-17.68	-17.68	0.0	200.0	0.0000	0.0000	29
30 *	-21.21	-21.21	0.0	100.0	0.0000	0.0000	30
31 *	-28.28	-28.28	0.0	100.0	0.0000	0.0000	31
32**	-35.36	-35.36	0.0	3000.0	0.0000	0.0000	32
33 *	-0.92	-0.38	0.0	100.0	0.0000	0.0000	33
34 *	-1.85	-0.77	0.0	100.0	0.0000	0.0000	34
35 *	-2.77	-1.15	0.0	100.0	0.0000	0.0000	35
36 *	-3.70	-1.53	0.0	100.0	0.0000	0.0000	36
37 *	-4.62	-1.91	0.0	100.0	0.0000	0.0000	37
38 *	-5.54	-2.30	0.0	100.0	0.0000	0.0000	38
39 *	-6.47	-2.68	0.0	100.0	0.0000	0.0000	39
40 *	-7.39	-3.06	0.0	100.0	0.0000	0.0000	40

41 *	-8.31	-3.44	0.0	100.0	0.0000	0.0000	41
42 *	-9.24	-3.83	0.0	100.0	0.0000	0.0000	42
43	-13.86	-5.74	0.0	200.0	0.0000	0.0000	43
44	-18.48	-7.65	0.0	200.0	0.0000	0.0000	44
45	-23.10	-9.57	0.0	200.0	0.0000	0.0000	45
46 *	-27.72	-11.48	0.0	100.0	0.0000	0.0000	46
47	-36.96	-15.31	0.0	200.0	0.0000	0.0000	47
48**	-46.19	-19.13	0.0	600.0	0.0000	0.0000	48
49 *	-1.00	0.00	0.0	100.0	0.0000	0.0000	49
50 *	-2.00	0.00	0.0	100.0	0.0000	0.0000	50
51 *	-3.00	0.00	0.0	100.0	0.0000	0.0000	51
52 *	-4.00	0.00	0.0	100.0	0.0000	0.0000	52
53 *	-5.00	0.00	0.0	100.0	0.0000	0.0000	53
54 *	-6.00	0.00	0.0	100.0	0.0000	0.0000	54
55 *	-7.00	0.00	0.0	100.0	0.0000	0.0000	55
56 *	-8.00	0.00	0.0	100.0	0.0000	0.0000	56
57 *	-9.00	0.00	0.0	100.0	0.0000	0.0000	57
58 *	-10.00	0.00	0.0	100.0	0.0000	0.0000	58
59	-15.00	0.00	0.0	200.0	0.0000	0.0000	59
60	-20.00	0.00	0.0	200.0	0.0000	0.0000	60
61	-25.00	0.00	0.0	200.0	0.0000	0.0000	61
62 *	-30.00	0.00	0.0	130.0	0.0000	0.0000	62
63	-40.00	0.00	0.0	200.0	0.0000	0.0000	63
64	-50.00	0.00	0.0	200.0	0.0000	0.0000	64
65 *	-0.92	0.38	0.0	100.0	0.0000	0.0000	65
66 *	-1.85	0.77	0.0	100.0	0.0000	0.0000	66
67 *	-2.77	1.15	0.0	100.0	0.0000	0.0000	67
68 *	-3.70	1.53	0.0	100.0	0.0000	0.0000	68
69 *	-4.62	1.91	0.0	100.0	0.0000	0.0000	69
70 *	-5.54	2.30	0.0	100.0	0.0000	0.0000	70
71 *	-6.47	2.68	0.0	100.0	0.0000	0.0000	71
72 *	-7.39	3.06	0.0	100.0	0.0000	0.0000	72
73 *	-8.31	3.44	0.0	100.0	0.0000	0.0000	73
74 *	-9.24	3.83	0.0	100.0	0.0000	0.0000	74
75	-13.86	5.74	0.0	180.0	0.0000	0.0000	75
76	-18.48	7.65	0.0	200.0	0.0000	0.0000	76
77	-23.10	9.57	0.0	400.0	0.0000	0.0000	77
78	-27.72	11.48	0.0	300.0	0.0000	0.0000	78
79	-36.96	15.31	0.0	200.0	0.0000	0.0000	79
80	-46.19	19.13	0.0	200.0	0.0000	0.0000	80
81	-0.71	0.71	0.0	150.0	0.0000	0.0000	81
82 *	-1.41	1.41	0.0	100.0	0.0000	0.0000	82
83 *	-2.12	2.12	0.0	100.0	0.0000	0.0000	83
84 *	-2.83	2.83	0.0	100.0	0.0000	0.0000	84
85 *	-3.54	3.54	0.0	100.0	0.0000	0.0000	85
86 *	-4.24	4.24	0.0	100.0	0.0000	0.0000	86
87 *	-4.95	4.95	0.0	100.0	0.0000	0.0000	87
88 *	-5.66	5.66	0.0	100.0	0.0000	0.0000	88
89	-6.36	6.36	0.0	200.0	0.0000	0.0000	89
90	-7.07	7.07	0.0	200.0	0.0000	0.0000	90
91	-10.61	10.61	0.0	200.0	0.0000	0.0000	91
92	-14.14	14.14	0.0	200.0	0.0000	0.0000	92
93	-17.68	17.68	0.0	200.0	0.0000	0.0000	93
94	-21.21	21.21	0.0	200.0	0.0000	0.0000	94
95	-28.28	28.28	0.0	200.0	0.0000	0.0000	95
96	-35.36	35.36	0.0	200.0	0.0000	0.0000	96
97 *	-0.38	0.92	0.0	100.0	0.0000	0.0000	97
98 *	-0.77	1.85	0.0	100.0	0.0000	0.0000	98
99 *	-1.15	2.77	0.0	100.0	0.0000	0.0000	99
100 *	-1.53	3.70	0.0	100.0	0.0000	0.0000	100
101 *	-1.91	4.62	0.0	100.0	0.0000	0.0000	101

102 *	-2.30	5.54	0.0	100.0	0.0000	0.0000	102
103 *	-2.68	6.47	0.0	100.0	0.0000	0.0000	103
104 *	-3.06	7.39	0.0	100.0	0.0000	0.0000	104
105	-3.44	8.31	0.0	200.0	0.0000	0.0000	105
106	-3.83	9.24	0.0	200.0	0.0000	0.0000	106
107	-5.74	13.86	0.0	200.0	0.0000	0.0000	107
108	-7.76	18.48	0.0	200.0	0.0000	0.0000	108
109	-9.57	23.10	0.0	200.0	0.0000	0.0000	109
110	-11.48	27.72	0.0	200.0	0.0000	0.0000	110
111	-15.31	36.96	0.0	200.0	0.0000	0.0000	111
112	-19.13	46.19	0.0	200.0	0.0000	0.0000	112
113 *	0.00	1.00	0.0	100.0	0.0000	0.0000	113
114 *	0.00	2.00	0.0	100.0	0.0000	0.0000	14
115 *	0.00	3.00	0.0	100.0	0.0000	0.0000	115
116 *	0.00	4.00	0.0	100.0	0.0000	0.0000	116
117 *	0.00	5.00	0.0	100.0	0.0000	0.0000	117
118 *	0.00	6.00	0.0	100.0	0.0000	0.0000	118
119 *	0.00	7.00	0.0	100.0	0.0000	0.0000	119
120 *	0.00	8.00	0.0	100.0	0.0000	0.0000	120
121 *	0.00	9.00	0.0	100.0	0.0000	0.0000	121
122 *	0.00	10.00	0.0	100.0	0.0000	0.0000	122
123 *	0.00	15.00	0.0	100.0	0.0000	0.0000	123
124 *	0.00	20.00	0.0	100.0	0.0000	0.0000	124
125 *	0.00	25.00	0.0	100.0	0.0000	0.0000	125
126	0.00	30.00	0.0	200.0	0.0000	0.0000	126
127	0.00	40.00	0.0	200.0	0.0000	0.0000	127
128	0.00	50.00	0.0	200.0	0.0000	0.0000	128

Susitna DEIS Comments
Willow Site Coal Fired Plant
Worst Case Impacts for SO2 Using Worst Case Coal

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 84/ 1 : HOUR 16

HOUR	THETA (DEG)	SPEED (M/S)	MIXING HEIGHT(M)	TEMP (K)	STABILITY CLASS
16	337.50	3.10	1000.00	273.00	4

	1	2	3	4	5	6	7	8	9	10
FINAL HT (M)	424.17									
DIST FIN HT (KM)	1.256									

RECEPTOR NO.	NAME	EAST COORD	NORTH COORD	RECEPTOR HT ABV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1	*	-0.38	-0.92	0.0	140.0	0.0000	0.0000	1
2	*	-0.77	-1.85	0.0	130.0	0.0000	0.0000	2
3	*	-1.15	-2.77	0.0	120.0	0.0000	0.0000	3
4	*	-1.53	-3.70	0.0	110.0	0.0000	0.0000	4
5	*	-1.91	-4.62	0.0	100.0	0.0000	0.0000	5
6	*	-2.30	-5.54	0.0	90.0	0.0000	0.0000	6
7	*	-2.68	-6.47	0.0	80.0	0.0000	0.0000	7
8	*	-3.06	-7.39	0.0	80.0	0.0000	0.0000	8
9	*	-3.44	-8.31	0.0	80.0	0.0000	0.0000	9
10	*	-3.83	-9.24	0.0	80.0	0.0000	0.0000	10
11		-5.74	-13.86	0.0	150.0	0.0000	0.0000	11
12		-7.76	-18.48	0.0	150.0	0.0000	0.0000	12
13	*	-9.57	-23.10	0.0	140.0	0.0000	0.0000	13
14	*	-11.48	-27.72	0.0	130.0	0.0000	0.0000	14
15	*	-15.31	-36.96	0.0	100.0	0.0000	0.0000	15
16	*	-19.13	-46.19	0.0	30.0	0.0000	0.0000	16
17	*	-0.71	-0.71	0.0	100.0	0.0000	0.0000	17
18	*	-1.41	-1.41	0.0	100.0	0.0000	0.0000	18
19	*	-2.12	-2.12	0.0	100.0	0.0000	0.0000	19
20	*	-2.83	-2.83	0.0	100.0	0.0000	0.0000	20
21	*	-3.54	-3.54	0.0	100.0	0.0000	0.0000	21
22	*	-4.24	-4.24	0.0	100.0	0.0000	0.0000	22
23	*	-4.95	-4.95	0.0	100.0	0.0000	0.0000	23
24	*	-5.66	-5.66	0.0	100.0	0.0000	0.0000	24
25	*	-6.36	-6.36	0.0	100.0	0.0000	0.0000	25
26	*	-7.07	-7.07	0.0	100.0	0.0000	0.0000	26
27	*	-10.61	-10.61	0.0	100.0	0.0000	0.0000	27
28		-14.14	-14.14	0.0	200.0	0.0000	0.0000	28
29		-17.68	-17.68	0.0	200.0	0.0000	0.0000	29
30	*	-21.21	-21.21	0.0	100.0	0.0000	0.0000	30
31	*	-28.28	-28.28	0.0	100.0	0.0000	0.0000	31
32	**	-35.36	-35.36	0.0	3000.0	0.0000	0.0000	32
33	*	-0.92	-0.38	0.0	100.0	0.0000	0.0000	33
34	*	-1.85	-0.77	0.0	100.0	0.0000	0.0000	34
35	*	-2.77	-1.15	0.0	100.0	0.0000	0.0000	35
36	*	-3.70	-1.53	0.0	100.0	0.0000	0.0000	36
37	*	-4.62	-1.91	0.0	100.0	0.0000	0.0000	37
38	*	-5.54	-2.30	0.0	100.0	0.0000	0.0000	38
39	*	-6.47	-2.68	0.0	100.0	0.0000	0.0000	39
40	*	-7.39	-3.06	0.0	100.0	0.0000	0.0000	40

41 *	-8.31	-3.44	0.0	100.0	0.0000	0.0000	41
42 *	-9.24	-3.83	0.0	100.0	0.0000	0.0000	42
43	-13.86	-5.74	0.0	200.0	0.0000	0.0000	43
44	-18.48	-7.65	0.0	200.0	0.0000	0.0000	44
45	-23.10	-9.57	0.0	200.0	0.0000	0.0000	45
46 *	-27.72	-11.48	0.0	100.0	0.0000	0.0000	46
47	-36.96	-15.31	0.0	200.0	0.0000	0.0000	47
48**	-46.19	-19.13	0.0	600.0	0.0000	0.0000	48
49 *	-1.00	0.00	0.0	100.0	0.0000	0.0000	49
50 *	-2.00	0.00	0.0	100.0	0.0000	0.0000	50
51 *	-3.00	0.00	0.0	100.0	0.0000	0.0000	51
52 *	-4.00	0.00	0.0	100.0	0.0000	0.0000	52
53 *	-5.00	0.00	0.0	100.0	0.0000	0.0000	53
54 *	-6.00	0.00	0.0	190.0	0.0000	0.0000	54
55 *	-7.00	0.00	0.0	100.0	0.0000	0.0000	55
56 *	-8.00	0.00	0.0	100.0	0.0000	0.0000	56
57 *	-9.00	0.00	0.0	100.0	0.0000	0.0000	57
58 *	-10.00	0.00	0.0	100.0	0.0000	0.0000	58
59	-15.00	0.00	0.0	200.0	0.0000	0.0000	59
60	-20.00	0.00	0.0	200.0	0.0000	0.0000	60
61	-25.00	0.00	0.0	200.0	0.0000	0.0000	61
62 *	-30.00	0.00	0.0	130.0	0.0000	0.0000	62
63	-40.00	0.00	0.0	200.0	0.0000	0.0000	63
64	-50.00	0.00	0.0	200.0	0.0000	0.0000	64
65 *	-0.92	0.38	0.0	100.0	0.0000	0.0000	65
66 *	-1.85	0.77	0.0	100.0	0.0000	0.0000	66
67 *	-2.77	1.15	0.0	100.0	0.0000	0.0000	67
68 *	-3.70	1.53	0.0	100.0	0.0000	0.0000	68
69 *	-4.62	1.91	0.0	100.0	0.0000	0.0000	69
70 *	-5.54	2.30	0.0	100.0	0.0000	0.0000	70
71 *	-6.47	2.68	0.0	100.0	0.0000	0.0000	71
72 *	-7.39	3.06	0.0	100.0	0.0000	0.0000	72
73 *	-8.31	3.44	0.0	100.0	0.0000	0.0000	73
74 *	-9.24	3.83	0.0	100.0	0.0000	0.0000	74
75	-13.86	5.74	0.0	180.0	0.0000	0.0000	75
76	-18.48	7.65	0.0	200.0	0.0000	0.0000	76
77	-23.10	9.57	0.0	400.0	0.0000	0.0000	77
78	-27.72	11.48	0.0	300.0	0.0000	0.0000	78
79	-36.96	15.31	0.0	200.0	0.0000	0.0000	79
80	-46.19	19.13	0.0	200.0	0.0000	0.0000	80
81	-0.71	0.71	0.0	150.0	0.0000	0.0000	81
82 *	-1.41	1.41	0.0	100.0	0.0000	0.0000	82
83 *	-2.12	2.12	0.0	100.0	0.0000	0.0000	83
84 *	-2.83	2.83	0.0	100.0	0.0000	0.0000	84
85 *	-3.54	3.54	0.0	100.0	0.0000	0.0000	85
86 *	-4.24	4.24	0.0	100.0	0.0000	0.0000	86
87 *	-4.95	4.95	0.0	100.0	0.0000	0.0000	87
88 *	-5.66	5.66	0.0	100.0	0.0000	0.0000	88
89	-6.36	6.36	0.0	200.0	0.0000	0.0000	89
90	-7.07	7.07	0.0	200.0	0.0000	0.0000	90
91	-10.61	10.61	0.0	200.0	0.0000	0.0000	91
92	-14.14	14.14	0.0	200.0	0.0000	0.0000	92
93	-17.68	17.68	0.0	200.0	0.0000	0.0000	93
94	-21.21	21.21	0.0	200.0	0.0000	0.0000	94
95	-28.28	28.28	0.0	200.0	0.0000	0.0000	95
96	-35.36	35.36	0.0	200.0	0.0000	0.0000	96
97 *	-0.38	0.92	0.0	100.0	0.0000	0.0000	97
98 *	-0.77	1.85	0.0	100.0	0.0000	0.0000	98
99 *	-1.15	2.77	0.0	100.0	0.0000	0.0000	99
100 *	-1.53	3.70	0.0	100.0	0.0000	0.0000	100
101 *	-1.91	4.62	0.0	100.0	0.0000	0.0000	101

102 *	-2.30	5.54	0.0	100.0	0.0000	0.0000	102
103 *	-2.68	6.47	0.0	100.0	0.0000	0.0000	103
104 *	-3.06	7.39	0.0	100.0	0.0000	0.0000	104
105	-3.44	8.31	0.0	200.0	0.0000	0.0000	105
106	-3.83	9.24	0.0	200.0	0.0000	0.0000	106
107	-5.74	13.86	0.0	200.0	0.0000	0.0000	107
108	-7.76	18.48	0.0	200.0	0.0000	0.0000	108
109	-9.57	23.10	0.0	200.0	0.0000	0.0000	109
110	-11.48	27.72	0.0	200.0	0.0000	0.0000	110
111	-15.31	36.96	0.0	200.0	0.0000	0.0000	111
112	-19.13	46.19	0.0	200.0	0.0000	0.0000	112
113 *	0.00	1.00	0.0	100.0	0.0000	0.0000	113
114 *	0.00	2.00	0.0	100.0	0.0000	0.0000	114
115 *	0.00	3.00	0.0	100.0	0.0000	0.0000	115
116 *	0.00	4.00	0.0	100.0	0.0000	0.0000	116
117 *	0.00	5.00	0.0	100.0	0.0000	0.0000	117
118 *	0.00	6.00	0.0	100.0	0.0000	0.0000	118
119 *	0.00	7.00	0.0	100.0	0.0000	0.0000	119
120 *	0.00	8.00	0.0	100.0	0.0000	0.0000	120
121 *	0.00	9.00	0.0	100.0	0.0000	0.0000	121
122 *	0.00	10.00	0.0	100.0	0.0000	0.0000	122
123 *	0.00	15.00	0.0	100.0	0.0000	0.0000	123
124 *	0.00	20.00	0.0	100.0	0.0000	0.0000	124
125 *	0.00	25.00	0.0	100.0	0.0000	0.0000	125
126	0.00	30.00	0.0	200.0	0.0000	0.0000	126
127	0.00	40.00	0.0	200.0	0.0000	0.0000	127
128	0.00	50.00	0.0	200.0	0.0000	0.0000	128