

DAILY CONSTRUCTION EMISSIONS

assumes four pipeline crews (two working with smaller pipe and two working with larger pipe)

Particulates

Wind erosion for smaller pipe (2.8 lbs/site*2 sites)	5.6 pounds/day	with mitigation	2.8 pounds/day
Wind erosion for larger pipe (0.6 lbs/site*2 sites)	1.2 pounds/day	with mitigation	0.6 pounds/day
Wind erosion over staging areas (20.5 lbs/area*4 sites)	82.0 pounds/day	with mitigation	41.0 pounds/day
Dust from truck travel for smaller pipe (0.6 lbs/site*2 sites)	1.6 pounds/day	with mitigation	1.6 pounds/day
Dust from truck travel for larger pipe (1.1 lbs/site * 2 sites)	2.2 pounds/day	with mitigation	2.2 pounds/day
Dust from employees travel (11.2 lbs/site * 4 sites)	44.8 pounds/day	with mitigation	44.8 pounds/day
Exhaust from truck travel for smaller pipe (0.4 lbs/site*2 sites)	0.8 pounds/day	with mitigation	0.8 pounds/day
Exhaust from truck travel for larger pipe (0.5 lbs/site*2 sites)	1.0 pounds/day	with mitigation	1.0 pounds/day
Exhaust from employees travel (0.035 lbs/site*4 sites)	0.1 pounds/day	with mitigation	0.1 pounds/day
Exhaust from equipment (2.56 lbs/site * 4 sites)	10.3 pounds/day	with mitigation	8.8 pounds/day
Dust from material handling for smaller pipe (1.1 lbs/site*2 sites)	2.2 pounds/day	with mitigation	1.1 pounds/day
Dust from material handling for larger pipe (0.6 lbs/site*2 sites)	1.2 pounds/day	with mitigation	0.6 pounds/day
Dust from grading (27.6 lbs/1 small and 1 large pipe site*2 sites)	55.2 pounds/day	with mitigation	27.6 pounds/day
Total	208.3 pounds/day	with mitigation	132.9 pounds/day

Carbon monoxide

Truck travel for smaller pipe (1.7 lbs/site*2 sites)	3.4 pounds/day	with mitigation	3.2 pounds/day
Truck travel for larger pipe (2.3 lbs/site*2 sites)	4.6 pounds/day	with mitigation	4.4 pounds/day
Employees travel (9.2 lbs/site*4 sites)	36.8 pounds/day	with mitigation	35.0 pounds/day
Equipment (11.91 lbs/site*4 sites)	47.6 pounds/day	with mitigation	40.5 pounds/day
Total	92.4 pounds/day	with mitigation	83.1 pounds/day

Nitrogen oxides

Truck travel for smaller pipe (2.1 lbs/site*2 sites)	4.2 pounds/day	with mitigation	4.0 pounds/day
Truck travel for larger pipe (2.9 lbs/site*2 sites)	5.8 pounds/day	with mitigation	5.5 pounds/day
Employees travel (2.3 lbs/site*4 sites)	9.2 pounds/day	with mitigation	8.7 pounds/day
Equipment (36.25 lbs/site*4 sites)	145.0 pounds/day	with mitigation	123.3 pounds/day
Total	164.2 pounds/day	with mitigation	141.5 pounds/day

Hydrocarbons

Truck travel for smaller pipe (0.4 lbs/site*2 sites)	0.8 pounds/day	with mitigation	0.8 pounds/day
Truck travel for larger pipe (0.6 lbs/site*2 sites)	1.2 pounds/day	with mitigation	1.1 pounds/day
Employees travel (1.0 lbs/site*4 sites)	4.0 pounds/day	with mitigation	3.8 pounds/day
Equipment (2.35* lbs/site*4 sites)	9.4 pounds/day	with mitigation	8.0 pounds/day
Total	15.4 pounds/day	with mitigation	13.7 pounds/day

Sulfur Oxides

Truck travel for smaller pipe	0.0 pounds/day	with mitigation	0.0 pounds/day
Truck travel for larger pipe	0.0 pounds/day	with mitigation	0.0 pounds/day
Employees travel	0.0 pounds/day	with mitigation	0.0 pounds/day
Equipment (3.73* lbs/site*4 sites)	14.9 pounds/day	with mitigation	12.7 pounds/day
Total	14.92 pounds/day	with mitigation	12.68 pounds/day

assumes three pipeline crews

Particulates

Wind erosion for larger pipe (0.6 lbs/site*3 sites)	1.8 pounds/day	with mitigation	0.9 pounds/day
Wind erosion over staging areas (20.5 lbs/area*3 sites)	61.5 pounds/day	with mitigation	30.8 pounds/day
Dust from truck travel for larger pipe (1.1 lbs/site * 3 sites)	3.3 pounds/day	with mitigation	3.3 pounds/day
Dust from employees travel (11.2 lbs/site * 3 sites)	33.6 pounds/day	with mitigation	33.6 pounds/day
Exhaust from truck travel for larger pipe (0.5 lbs/site*3 sites)	1.5 pounds/day	with mitigation	1.4 pounds/day
Exhaust from employees travel (0.035 lbs/site*3 sites)	0.1 pounds/day	with mitigation	0.1 pounds/day
Exhaust from equipment (2.58 lbs/site* 3 sites)	7.7 pounds/day	with mitigation	6.6 pounds/day
Dust from material handling for larger pipe (0.6 lbs/site*3 sites)	1.8 pounds/day	with mitigation	0.9 pounds/day
Dust from grading (6.9 lbs/site*3 sites)	20.7 pounds/day	with mitigation	10.4 pounds/day
Total	132.0 pounds/day	with mitigation	67.9 pounds/day

Carbon monoxide

Truck travel for larger pipe (2.3 lbs/site*3 sites)	6.9 pounds/day	with mitigation	6.6 pounds/day
Employees travel (9.2 lbs/site*3 sites)	27.6 pounds/day	with mitigation	26.2 pounds/day
Equipment (11.91 lbs/site*3 sites)	35.7 pounds/day	with mitigation	5.4 pounds/day
Total	70.2 pounds/day	with mitigation	38.1 pounds/day

Nitrogen oxides

Truck travel for larger pipe (2.9 lbs/site*3 sites)	8.7 pounds/day	with mitigation	8.3 pounds/day
Employees travel (2.3 lbs/site*3 sites)	6.9 pounds/day	with mitigation	6.6 pounds/day
Equipment (36.25 lbs/site*3 sites)	108.8 pounds/day	with mitigation	16.3 pounds/day
Total	124.4 pounds/day	with mitigation	31.1 pounds/day

Hydrocarbons

Truck travel for larger pipe (0.6 lbs/site*3 sites)	1.8 pounds/day	with mitigation	1.7 pounds/day
Employees travel (1.0 lbs/site*3 sites)	3.0 pounds/day	with mitigation	2.9 pounds/day
Equipment (2.35* lbs/site*3 sites)	7.1 pounds/day	with mitigation	1.1 pounds/day
Total	11.9 pounds/day	with mitigation	5.6 pounds/day

Sulfur Oxides

Truck travel for larger pipe	0.0 pounds/day	with mitigation	0.0 pounds/day
Employees travel	0.0 pounds/day	with mitigation	0.0 pounds/day
Equipment (3.73* lbs/site*3 sites)	11.2 pounds/day	with mitigation	9.5 pounds/day
Total	11.2 pounds/day	with mitigation	9.5 pounds/day

assumes one pipeline crew

Particulates

Wind erosion for larger pipe (0.6 lbs/site*1 site)	0.6 pounds/day	with mitigation	0.3 pounds/day
Wind erosion over staging areas (20.5 lbs/area*1 site)	20.5 pounds/day	with mitigation	10.3 pounds/day
Dust from truck travel for larger pipe (1.1 lbs/site * 1 site)	1.1 pounds/day	with mitigation	1.1 pounds/day
Dust from employees travel (11.2 lbs/site * 1 site)	11.2 pounds/day	with mitigation	11.2 pounds/day
Exhaust from truck travel for larger pipe (0.5 lbs/site*1 site)	0.5 pounds/day	with mitigation	0.5 pounds/day
Exhaust from employees travel (0.035 lbs/site*1 site)	0.0 pounds/day	with mitigation	0.0 pounds/day
Exhaust from equipment (2.58 lbs/site*1 site)	2.6 pounds/day	with mitigation	2.2 pounds/day
Dust from material handling for larger pipe (0.6 lbs/site*1 site)	0.6 pounds/day	with mitigation	0.3 pounds/day
Dust from grading (6.9 lbs/site*1 site)	6.9 pounds/day	with mitigation	3.5 pounds/day
Total	44.0 pounds/day	with mitigation	29.3 pounds/day

Carbon monoxide

Truck travel for larger pipe (2.3 lbs/site*1 site)	2.3 pounds/day	with mitigation	2.2 pounds/day
Employees travel (9.2 lbs/site*1 site)	9.2 pounds/day	with mitigation	8.7 pounds/day
Equipment (11.91 lbs/site*1 site)	11.9 pounds/day	with mitigation	10.1 pounds/day
Total	23.4 pounds/day	with mitigation	21.0 pounds/day

Nitrogen oxides

Truck travel for larger pipe (2.9 lbs/site*1 site)	2.9 pounds/day	with mitigation	2.8 pounds/day
Employees travel (2.3 lbs/site*1 site)	2.3 pounds/day	with mitigation	2.2 pounds/day
Equipment (36.25 lbs/site*1 site)	36.3 pounds/day	with mitigation	30.8 pounds/day
Total	41.5 pounds/day	with mitigation	35.8 pounds/day

Hydrocarbons

Truck travel for larger pipe (0.6 lbs/site*1 site)	0.6 pounds/day	with mitigation	0.6 pounds/day
Employees travel (1.0 lbs/site*1 site)	1.0 pounds/day	with mitigation	1.0 pounds/day
Equipment (2.35 lbs/site*1 site)	2.4 pounds/day	with mitigation	2.0 pounds/day
Total	4.0 pounds/day	with mitigation	3.5 pounds/day

Sulfur Oxides

Truck travel for larger pipe	0.0 pounds/day	with mitigation	0.0 pounds/day
Employees travel	0.0 pounds/day	with mitigation	0.0 pounds/day
Equipment (3.73 lbs/site*1 site)	3.7 pounds/day	with mitigation	3.2 pounds/day
Total	3.7 pounds/day	with mitigation	3.2 pounds/day

Project: Santa Rosa Subregional Long-Term Wastewater Project
 Subject: Construction - Daily Reservoir Emissions

Prepared By: I. Edmonds
 Date Prepared: 11/22/95
 Checked By: C. Chapin 11/22/95

Alt 2A Tolay A

Particulates

Wind erosion for reservoir area (400 acres)	2080.0 pounds/day	with mitigation	1040.0 pounds/day
Wind erosion over staging area	35.3 pounds/day	with mitigation	17.7 pounds/day
Dust from truck travel for disposal	3.0 pounds/day	with mitigation	3.0 pounds/day
Dust from truck travel for import material	46.0 pounds/day	with mitigation	46.0 pounds/day
Dust from employees travel	56.0 pounds/day	with mitigation	56.0 pounds/day
Exhaust from truck travel for disposal	1.4 pounds/day	with mitigation	1.3 pounds/day
Exhaust from truck travel for import material	20.7 pounds/day	with mitigation	19.7 pounds/day
Exhaust from employees travel	0.2 pounds/day	with mitigation	0.2 pounds/day
Exhaust from equipment	91.6 pounds/day	with mitigation	77.9 pounds/day
Dust from material handling	5.9 pounds/day	with mitigation	3.0 pounds/day

Total	2340.1 pounds/day	with mitigation	1264.7 pounds/day
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Carbon monoxide

Truck travel for disposal	6.0 pounds/day	with mitigation	5.7 pounds/day
Truck travel for import material	92.4 pounds/day	with mitigation	87.8 pounds/day
Employees travel	46.6 pounds/day	with mitigation	44.3 pounds/day
Equipment	375.7 pounds/day	with mitigation	319.4 pounds/day

Total	520.7 pounds/day	with mitigation	457.1 pounds/day
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Nitrogen oxides

Truck travel for disposal	7.6 pounds/day	with mitigation	7.2 pounds/day
Truck travel for import material	116.2 pounds/day	with mitigation	110.4 pounds/day
Employees travel	11.3 pounds/day	with mitigation	10.7 pounds/day
Equipment	1276.2 pounds/day	with mitigation	1086.5 pounds/day

Total	1413.3 pounds/day	with mitigation	1214.8 pounds/day
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Hydrocarbons

Truck travel for disposal	1.6 pounds/day	with mitigation	1.5 pounds/day
Truck travel for import material	24.6 pounds/day	with mitigation	23.4 pounds/day
Employees travel	4.9 pounds/day	with mitigation	4.7 pounds/day
Equipment	73.8 pounds/day	with mitigation	62.7 pounds/day

Total	104.9 pounds/day	with mitigation	92.3 pounds/day
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Sulfur Oxides

Truck travel for disposal	0.0 pounds/day	with mitigation	0.0 pounds/day
Truck travel for import material	0.0 pounds/day	with mitigation	0.0 pounds/day
Employees travel	0.0 pounds/day	with mitigation	0.0 pounds/day
Equipment	134.2 pounds/day	with mitigation	114.0 pounds/day

Total	134.2 pounds/day	with mitigation	114.0 pounds/day
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Project: Santa Rosa Subregional Long-Term Wastewater Project
 Subject: Construction - Daily Reservoir Emissions

Prepared By: I. Edmonds
 Date Prepared: 11/22/95
 Checked By: C. Chapin 11/22/95

Alt 2B Adobe Road and Lakeville Hillside

(assumes 2 sites worked on at same time)

Particulates

Wind erosion for reservoir area (163 acres)	847.6 pounds/day	with mitigation	423.8 pounds/day
Wind erosion over 2 staging areas	70.6 pounds/day	with mitigation	35.3 pounds/day
Dust from truck travel for disposal	6.0 pounds/day	with mitigation	6.0 pounds/day
Dust from truck travel for import material	99.0 pounds/day	with mitigation	99.0 pounds/day
Dust from employees travel	112.0 pounds/day	with mitigation	112.0 pounds/day
Exhaust from truck travel for disposal	2.8 pounds/day	with mitigation	2.7 pounds/day
Exhaust from truck travel for import material	44.6 pounds/day	with mitigation	42.4 pounds/day
Exhaust from employees travel	0.4 pounds/day	with mitigation	0.4 pounds/day
Exhaust from equipment	119.8 pounds/day	with mitigation	101.6 pounds/day
Dust from material handling	11.8 pounds/day	with mitigation	5.9 pounds/day
Total	1314.4 pounds/day	with mitigation	829.1 pounds/day

Carbon monoxide

Truck travel for disposal	12.0 pounds/day	with mitigation	11.4 pounds/day
Truck travel for import material	198.9 pounds/day	with mitigation	188.9 pounds/day
Employees travel	93.2 pounds/day	with mitigation	88.5 pounds/day
Equipment	487.2 pounds/day	with mitigation	414.1 pounds/day
Total	791.3 pounds/day	with mitigation	703.0 pounds/day

Nitrogen oxides

Truck travel for disposal	15.2 pounds/day	with mitigation	14.4 pounds/day
Truck travel for import material	250.0 pounds/day	with mitigation	237.5 pounds/day
Employees travel	22.6 pounds/day	with mitigation	21.5 pounds/day
Equipment	1670.5 pounds/day	with mitigation	1419.9 pounds/day
Total	1958.3 pounds/day	with mitigation	1693.3 pounds/day

Hydrocarbons

Truck travel for disposal	3.2 pounds/day	with mitigation	3.0 pounds/day
Truck travel for import material	52.9 pounds/day	with mitigation	50.3 pounds/day
Employees travel	9.8 pounds/day	with mitigation	9.3 pounds/day
Equipment	99.7 pounds/day	with mitigation	84.8 pounds/day
Total	165.6 pounds/day	with mitigation	147.4 pounds/day

Sulfur Oxides

Truck travel for disposal	0.0 pounds/day	with mitigation	0.0 pounds/day
Truck travel for import material	0.0 pounds/day	with mitigation	0.0 pounds/day
Employees travel	0.0 pounds/day	with mitigation	0.0 pounds/day
Equipment	174.5 pounds/day	with mitigation	148.3 pounds/day
Total	174.5 pounds/day	with mitigation	148.3 pounds/day

Alt 2C Toley C

Particulates

Wind erosion for reservoir area (195 acres)	1014.0 pounds/day	with mitigation	507.0 pounds/day
Wind erosion over staging area	35.3 pounds/day	with mitigation	17.7 pounds/day
Dust from truck travel for disposal	3.0 pounds/day	with mitigation	3.0 pounds/day
Dust from truck travel for import material	46.0 pounds/day	with mitigation	46.0 pounds/day
Dust from employees travel	56.0 pounds/day	with mitigation	56.0 pounds/day
Exhaust from truck travel for disposal	1.4 pounds/day	with mitigation	1.3 pounds/day
Exhaust from truck travel for import material	20.7 pounds/day	with mitigation	19.7 pounds/day
Exhaust from employees travel	0.2 pounds/day	with mitigation	0.2 pounds/day
Exhaust from equipment	73.8 pounds/day	with mitigation	62.7 pounds/day
Dust from material handling	5.9 pounds/day	with mitigation	3.0 pounds/day

Total	1256.3 pounds/day	with mitigation	716.6 pounds/day
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Carbon monoxide

Truck travel for disposal	6.0 pounds/day	with mitigation	5.7 pounds/day
Truck travel for import material	92.4 pounds/day	with mitigation	87.8 pounds/day
Employees travel	46.6 pounds/day	with mitigation	44.3 pounds/day
Equipment	295.7 pounds/day	with mitigation	251.3 pounds/day

Total	440.7 pounds/day	with mitigation	389.1 pounds/day
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Nitrogen oxides

Truck travel for disposal	7.6 pounds/day	with mitigation	7.2 pounds/day
Truck travel for import material	116.2 pounds/day	with mitigation	110.4 pounds/day
Employees travel	11.3 pounds/day	with mitigation	10.7 pounds/day
Equipment	1018.1 pounds/day	with mitigation	865.4 pounds/day

Total	1153.2 pounds/day	with mitigation	993.7 pounds/day
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Hydrocarbons

Truck travel for disposal	1.6 pounds/day	with mitigation	1.5 pounds/day
Truck travel for import material	24.6 pounds/day	with mitigation	23.4 pounds/day
Employees travel	4.9 pounds/day	with mitigation	4.7 pounds/day
Equipment	59.6 pounds/day	with mitigation	50.7 pounds/day

Total	90.7 pounds/day	with mitigation	80.2 pounds/day
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Sulfur Oxides

Truck travel for disposal	0.0 pounds/day	with mitigation	0.0 pounds/day
Truck travel for import material	0.0 pounds/day	with mitigation	0.0 pounds/day
Employees travel	0.0 pounds/day	with mitigation	0.0 pounds/day
Equipment	106.6 pounds/day	with mitigation	90.6 pounds/day

Total	106.6 pounds/day	with mitigation	90.6 pounds/day
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Project: Santa Rosa Subregional Long-Term Wastewater Project
 Subject: Construction - Daily Reservoir Emissions

Prepared By: I. Edmonds
 Date Prepared: 11/22/95
 Checked By: C. Chapin 11/22/95

Alt 2D Sears Point and Lakeville Hillside

(assumes 2 sites worked on at same time)

Particulates

Wind erosion for reservoir area (213 acres)	1107.6 pounds/day	with mitigation	553.8 pounds/day
Wind erosion over 2 staging areas	70.6 pounds/day	with mitigation	35.3 pounds/day
Dust from truck travel for disposal	6.0 pounds/day	with mitigation	6.0 pounds/day
Dust from truck travel for import material	78.0 pounds/day	with mitigation	78.0 pounds/day
Dust from employees travel	112.0 pounds/day	with mitigation	112.0 pounds/day
Exhaust from truck travel for disposal	2.8 pounds/day	with mitigation	2.7 pounds/day
Exhaust from truck travel for import material	35.2 pounds/day	with mitigation	33.4 pounds/day
Exhaust from employees travel	0.4 pounds/day	with mitigation	0.4 pounds/day
Exhaust from equipment	118.6 pounds/day	with mitigation	101.6 pounds/day
Dust from material handling	11.8 pounds/day	with mitigation	5.9 pounds/day
Total	1543.9 pounds/day	with mitigation	929.1 pounds/day

Carbon monoxide

Truck travel for disposal	12.0 pounds/day	with mitigation	11.4 pounds/day
Truck travel for import material	156.7 pounds/day	with mitigation	148.8 pounds/day
Employees travel	93.2 pounds/day	with mitigation	88.5 pounds/day
Equipment	487.2 pounds/day	with mitigation	414.1 pounds/day
Total	749.1 pounds/day	with mitigation	662.9 pounds/day

Nitrogen oxides

Truck travel for disposal	15.2 pounds/day	with mitigation	14.4 pounds/day
Truck travel for import material	197.0 pounds/day	with mitigation	187.1 pounds/day
Employees travel	22.6 pounds/day	with mitigation	21.5 pounds/day
Equipment	1670.5 pounds/day	with mitigation	1419.9 pounds/day
Total	1805.2 pounds/day	with mitigation	1642.9 pounds/day

Hydrocarbons

Truck travel for disposal	3.2 pounds/day	with mitigation	3.0 pounds/day
Truck travel for import material	41.7 pounds/day	with mitigation	39.6 pounds/day
Employees travel	9.8 pounds/day	with mitigation	9.3 pounds/day
Equipment	99.7 pounds/day	with mitigation	84.8 pounds/day
Total	154.4 pounds/day	with mitigation	136.7 pounds/day

Sulfur Oxides

Truck travel for disposal	0.0 pounds/day	with mitigation	0.0 pounds/day
Truck travel for import material	0.0 pounds/day	with mitigation	0.0 pounds/day
Employees travel	0.0 pounds/day	with mitigation	0.0 pounds/day
Equipment	174.5 pounds/day	with mitigation	148.3 pounds/day
Total	174.5 pounds/day	with mitigation	148.3 pounds/day

Alt 2E Smaller Tolley and ASR

Particulates

Wind erosion for reservoir area (350 acres)	1820.0 pounds/day	with mitigation	910.0 pounds/day
Wind erosion over staging area	35.3 pounds/day	with mitigation	17.7 pounds/day
Dust from truck travel for disposal	3.0 pounds/day	with mitigation	3.0 pounds/day
Dust from truck travel for import material	46.0 pounds/day	with mitigation	46.0 pounds/day
Dust from employees travel	56.0 pounds/day	with mitigation	56.0 pounds/day
Exhaust from truck travel for disposal	1.4 pounds/day	with mitigation	1.3 pounds/day
Exhaust from truck travel for import material	20.7 pounds/day	with mitigation	19.7 pounds/day
Exhaust from employees travel	0.2 pounds/day	with mitigation	0.2 pounds/day
Exhaust from equipment	91.6 pounds/day	with mitigation	775.2 pounds/day
Dust from material handling	5.9 pounds/day	with mitigation	3.0 pounds/day

Total 2080.1 pounds/day with mitigation 8842.0 pounds/day

Carbon monoxide

Truck travel for disposal	6.0 pounds/day	with mitigation	5.7 pounds/day
Truck travel for import material	92.4 pounds/day	with mitigation	87.8 pounds/day
Employees travel	46.6 pounds/day	with mitigation	44.3 pounds/day
Equipment	375.7 pounds/day	with mitigation	319.4 pounds/day

Total 520.7 pounds/day with mitigation 457.1 pounds/day

Nitrogen oxides

Truck travel for disposal	7.6 pounds/day	with mitigation	7.2 pounds/day
Truck travel for import material	116.2 pounds/day	with mitigation	110.4 pounds/day
Employees travel	11.3 pounds/day	with mitigation	10.7 pounds/day
Equipment	1278.2 pounds/day	with mitigation	1086.5 pounds/day

Total 1413.3 pounds/day with mitigation 1214.8 pounds/day

Hydrocarbons

Truck travel for disposal	1.6 pounds/day	with mitigation	1.5 pounds/day
Truck travel for import material	24.6 pounds/day	with mitigation	23.4 pounds/day
Employees travel	4.9 pounds/day	with mitigation	4.7 pounds/day
Equipment	73.8 pounds/day	with mitigation	62.7 pounds/day

Total 104.9 pounds/day with mitigation 92.3 pounds/day

Sulfur Oxides

Truck travel for disposal	0.0 pounds/day	with mitigation	0.0 pounds/day
Truck travel for import material	0.0 pounds/day	with mitigation	0.0 pounds/day
Employees travel	0.0 pounds/day	with mitigation	0.0 pounds/day
Equipment	134.2 pounds/day	with mitigation	114.0 pounds/day

Total 134.2 pounds/day with mitigation 114.0 pounds/day

Alt 3A Two Rock

Particulates

Wind erosion for reservoir area (115 acres)	598.0 pounds/day	with mitigation	299.0 pounds/day
Wind erosion over staging area	35.3 pounds/day	with mitigation	17.7 pounds/day
Dust from truck travel for disposal	3.0 pounds/day	with mitigation	3.0 pounds/day
Dust from truck travel for import material	71.0 pounds/day	with mitigation	71.0 pounds/day
Dust from employees travel	56.0 pounds/day	with mitigation	56.0 pounds/day
Exhaust from truck travel for disposal	1.4 pounds/day	with mitigation	1.3 pounds/day
Exhaust from truck travel for import material	32.0 pounds/day	with mitigation	30.4 pounds/day
Exhaust from employees travel	0.2 pounds/day	with mitigation	0.2 pounds/day
Exhaust from equipment	59.8 pounds/day	with mitigation	50.8 pounds/day
Dust from material handling	5.9 pounds/day	with mitigation	3.0 pounds/day

Total	862.6 pounds/day	with mitigation	532.4 pounds/day
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Carbon monoxide

Truck travel for disposal	6.0 pounds/day	with mitigation	5.7 pounds/day
Truck travel for import material	142.6 pounds/day	with mitigation	135.5 pounds/day
Employees travel	48.6 pounds/day	with mitigation	44.3 pounds/day
Equipment	243.6 pounds/day	with mitigation	207.1 pounds/day

Total	439.8 pounds/day	with mitigation	392.5 pounds/day
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Nitrogen oxides

Truck travel for disposal	7.6 pounds/day	with mitigation	7.2 pounds/day
Truck travel for import material	179.3 pounds/day	with mitigation	170.4 pounds/day
Employees travel	11.3 pounds/day	with mitigation	10.7 pounds/day
Equipment	835.2 pounds/day	with mitigation	709.9 pounds/day

Total	1033.4 pounds/day	with mitigation	898.2 pounds/day
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Hydrocarbons

Truck travel for disposal	1.6 pounds/day	with mitigation	1.5 pounds/day
Truck travel for import material	38.0 pounds/day	with mitigation	36.1 pounds/day
Employees travel	4.9 pounds/day	with mitigation	4.7 pounds/day
Equipment	49.9 pounds/day	with mitigation	42.4 pounds/day

Total	94.3 pounds/day	with mitigation	84.6 pounds/day
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Sulfur Oxides

Truck travel for disposal	0.0 pounds/day	with mitigation	0.0 pounds/day
Truck travel for import material	0.0 pounds/day	with mitigation	0.0 pounds/day
Employees travel	0.0 pounds/day	with mitigation	0.0 pounds/day
Equipment	87.3 pounds/day	with mitigation	74.2 pounds/day

Total	87.3 pounds/day	with mitigation	74.2 pounds/day
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Project: Santa Rosa Subregional Long-Term Wastewater Project
 Subject: Construction - Daily Reservoir Emissions

Prepared By: I. Edmonds
 Date Prepared: 11/22/95
 Checked By: C. Chapin 11/22/95

Alt 3B Bloomfield

Particulates

Wind erosion for reservoir area (98 acres)	509.6 pounds/day	with mitigation	254.8 pounds/day
Wind erosion over staging area	35.3 pounds/day	with mitigation	17.7 pounds/day
Dust from truck travel for disposal	3.0 pounds/day	with mitigation	3.0 pounds/day
Dust from truck travel for import material	82.0 pounds/day	with mitigation	82.0 pounds/day
Dust from employees travel	56.0 pounds/day	with mitigation	56.0 pounds/day
Exhaust from truck travel for disposal	1.4 pounds/day	with mitigation	1.3 pounds/day
Exhaust from truck travel for import material	37.0 pounds/day	with mitigation	35.1 pounds/day
Exhaust from employees travel	0.2 pounds/day	with mitigation	0.2 pounds/day
Exhaust from equipment	59.8 pounds/day	with mitigation	50.8 pounds/day
Dust from material handling	5.9 pounds/day	with mitigation	3.0 pounds/day

Total	790.2 pounds/day	with mitigation	503.9 pounds/day
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Carbon monoxide

Truck travel for disposal	6.0 pounds/day	with mitigation	5.7 pounds/day
Truck travel for import material	164.7 pounds/day	with mitigation	156.5 pounds/day
Employees travel	46.6 pounds/day	with mitigation	44.3 pounds/day
Equipment	243.6 pounds/day	with mitigation	207.1 pounds/day

Total	460.9 pounds/day	with mitigation	413.5 pounds/day
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Nitrogen oxides

Truck travel for disposal	7.6 pounds/day	with mitigation	7.2 pounds/day
Truck travel for import material	207.1 pounds/day	with mitigation	196.7 pounds/day
Employees travel	11.3 pounds/day	with mitigation	10.7 pounds/day
Equipment	835.2 pounds/day	with mitigation	709.9 pounds/day

Total	1061.2 pounds/day	with mitigation	924.6 pounds/day
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Hydrocarbons

Truck travel for disposal	1.6 pounds/day	with mitigation	1.5 pounds/day
Truck travel for import material	43.8 pounds/day	with mitigation	41.6 pounds/day
Employees travel	4.9 pounds/day	with mitigation	4.7 pounds/day
Equipment	49.9 pounds/day	with mitigation	42.4 pounds/day

Total	100.2 pounds/day	with mitigation	90.2 pounds/day
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Sulfur Oxides

Truck travel for disposal	0.0 pounds/day	with mitigation	0.0 pounds/day
Truck travel for import material	0.0 pounds/day	with mitigation	0.0 pounds/day
Employees travel	0.0 pounds/day	with mitigation	0.0 pounds/day
Equipment	87.3 pounds/day	with mitigation	74.2 pounds/day

Total	87.3 pounds/day	with mitigation	74.2 pounds/day
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Project: Santa Rosa Subregional Long-Term Wastewater Project
 Subject: Construction - Daily Reservoir Emissions

Prepared By: I. Edmonds
 Date Prepared: 11/22/95
 Checked By: C. Chapin 11/22/95

Alt 3C Carroll Road and Alt 3D Valley Ford

<u>Particulates</u>			
Wind erosion for reservoir area (118 acres)	613.6 pounds/day	with mitigation	306.8 pounds/day
Wind erosion over staging area	35.3 pounds/day	with mitigation	17.7 pounds/day
Dust from truck travel for disposal	3.0 pounds/day	with mitigation	3.0 pounds/day
Dust from truck travel for import material	85.0 pounds/day	with mitigation	85.0 pounds/day
Dust from employees travel	56.0 pounds/day	with mitigation	56.0 pounds/day
Exhaust from truck travel for disposal	1.4 pounds/day	with mitigation	1.3 pounds/day
Exhaust from truck travel for import material	38.3 pounds/day	with mitigation	36.4 pounds/day
Exhaust from employees travel	0.2 pounds/day	with mitigation	0.2 pounds/day
Exhaust from equipment	59.8 pounds/day	with mitigation	50.8 pounds/day
Dust from material handling	5.9 pounds/day	with mitigation	3.0 pounds/day
Total	898.5 pounds/day	with mitigation	560.2 pounds/day
<u>Carbon monoxide</u>			
Truck travel for disposal	6.0 pounds/day	with mitigation	5.7 pounds/day
Truck travel for import material	170.7 pounds/day	with mitigation	162.2 pounds/day
Employees travel	46.6 pounds/day	with mitigation	44.3 pounds/day
Equipment	243.6 pounds/day	with mitigation	207.1 pounds/day
Total	467.0 pounds/day	with mitigation	419.2 pounds/day
<u>Nitrogen oxides</u>			
Truck travel for disposal	7.6 pounds/day	with mitigation	7.2 pounds/day
Truck travel for import material	214.7 pounds/day	with mitigation	203.9 pounds/day
Employees travel	11.3 pounds/day	with mitigation	10.7 pounds/day
Equipment	835.2 pounds/day	with mitigation	709.9 pounds/day
Total	1068.8 pounds/day	with mitigation	931.8 pounds/day
<u>Hydrocarbons</u>			
Truck travel for disposal	1.6 pounds/day	with mitigation	1.5 pounds/day
Truck travel for import material	45.4 pounds/day	with mitigation	43.2 pounds/day
Employees travel	4.9 pounds/day	with mitigation	4.7 pounds/day
Equipment	49.9 pounds/day	with mitigation	42.4 pounds/day
Total	101.8 pounds/day	with mitigation	91.7 pounds/day
<u>Sulfur Oxides</u>			
Truck travel for disposal	0.0 pounds/day	with mitigation	0.0 pounds/day
Truck travel for import material	0.0 pounds/day	with mitigation	0.0 pounds/day
Employees travel	0.0 pounds/day	with mitigation	0.0 pounds/day
Equipment	87.3 pounds/day	with mitigation	74.2 pounds/day
Total	87.3 pounds/day	with mitigation	74.2 pounds/day

Project: Santa Rosa Subregional Long-Term Wastewater Project
 Subject: Construction - Daily Reservoir Emissions

Prepared By: I. Edmonds
 Date Prepared: 11/22/95
 Checked By: C. Chapin 11/22/95

Alt 3E Huntley

Particulates			
Wind erosion for reservoir area (88 acres)	457.6 pounds/day	with mitigation	228.8 pounds/day
Wind erosion over staging area	35.3 pounds/day	with mitigation	17.7 pounds/day
Dust from truck travel for disposal	3.0 pounds/day	with mitigation	3.0 pounds/day
Dust from truck travel for import material	78.0 pounds/day	with mitigation	78.0 pounds/day
Dust from employees travel	56.0 pounds/day	with mitigation	56.0 pounds/day
Exhaust from truck travel for disposal	1.4 pounds/day	with mitigation	1.3 pounds/day
Exhaust from truck travel for import material	35.2 pounds/day	with mitigation	33.4 pounds/day
Exhaust from employees travel	0.2 pounds/day	with mitigation	0.2 pounds/day
Exhaust from equipment	59.8 pounds/day	with mitigation	50.8 pounds/day
Dust from material handling	5.9 pounds/day	with mitigation	3.0 pounds/day
Total	732.4 pounds/day	with mitigation	472.2 pounds/day
Carbon monoxide			
Truck travel for disposal	8.0 pounds/day	with mitigation	5.7 pounds/day
Truck travel for import material	158.7 pounds/day	with mitigation	148.8 pounds/day
Employees travel	46.6 pounds/day	with mitigation	44.3 pounds/day
Equipment	243.6 pounds/day	with mitigation	207.1 pounds/day
Total	452.9 pounds/day	with mitigation	405.9 pounds/day
Nitrogen oxides			
Truck travel for disposal	7.6 pounds/day	with mitigation	7.2 pounds/day
Truck travel for import material	197.0 pounds/day	with mitigation	187.1 pounds/day
Employees travel	11.3 pounds/day	with mitigation	10.7 pounds/day
Equipment	835.2 pounds/day	with mitigation	709.9 pounds/day
Total	1051.1 pounds/day	with mitigation	915.0 pounds/day
Hydrocarbons			
Truck travel for disposal	1.6 pounds/day	with mitigation	1.5 pounds/day
Truck travel for import material	41.7 pounds/day	with mitigation	39.6 pounds/day
Employees travel	4.9 pounds/day	with mitigation	4.7 pounds/day
Equipment	49.9 pounds/day	with mitigation	42.4 pounds/day
Total	98.1 pounds/day	with mitigation	88.2 pounds/day
Sulfur Oxides			
Truck travel for disposal	0.0 pounds/day	with mitigation	0.0 pounds/day
Truck travel for import material	0.0 pounds/day	with mitigation	0.0 pounds/day
Employees travel	0.0 pounds/day	with mitigation	0.0 pounds/day
Equipment	87.3 pounds/day	with mitigation	74.2 pounds/day
Total	87.3 pounds/day	with mitigation	74.2 pounds/day

Alt 3F Smaller Two Rock and ASR

Particulates

Wind erosion for reservoir area (75 acres)	390.0 pounds/day	with mitigation	195.0 pounds/day
Wind erosion over staging area	35.3 pounds/day	with mitigation	17.7 pounds/day
Dust from truck travel for disposal	3.0 pounds/day	with mitigation	3.0 pounds/day
Dust from truck travel for import material	71.0 pounds/day	with mitigation	71.0 pounds/day
Dust from employees travel	56.0 pounds/day	with mitigation	56.0 pounds/day
Exhaust from truck travel for disposal	1.4 pounds/day	with mitigation	1.3 pounds/day
Exhaust from truck travel for import material	32.0 pounds/day	with mitigation	30.4 pounds/day
Exhaust from employees travel	0.2 pounds/day	with mitigation	0.2 pounds/day
Exhaust from equipment	59.8 pounds/day	with mitigation	50.8 pounds/day
Dust from material handling	5.9 pounds/day	with mitigation	3.0 pounds/day

Total	654.6 pounds/day	with mitigation	428.4 pounds/day
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Carbon monoxide

Truck travel for disposal	6.0 pounds/day	with mitigation	5.7 pounds/day
Truck travel for import material	142.6 pounds/day	with mitigation	135.5 pounds/day
Employees travel	46.6 pounds/day	with mitigation	44.3 pounds/day
Equipment	243.6 pounds/day	with mitigation	207.1 pounds/day

Total	438.8 pounds/day	with mitigation	392.5 pounds/day
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Nitrogen oxides

Truck travel for disposal	7.6 pounds/day	with mitigation	7.2 pounds/day
Truck travel for import material	179.3 pounds/day	with mitigation	170.4 pounds/day
Employees travel	11.3 pounds/day	with mitigation	10.7 pounds/day
Equipment	835.2 pounds/day	with mitigation	709.9 pounds/day

Total	1033.4 pounds/day	with mitigation	898.2 pounds/day
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Hydrocarbons

Truck travel for disposal	1.6 pounds/day	with mitigation	1.5 pounds/day
Truck travel for import material	38.0 pounds/day	with mitigation	36.1 pounds/day
Employees travel	4.9 pounds/day	with mitigation	4.7 pounds/day
Equipment	49.9 pounds/day	with mitigation	42.4 pounds/day

Total	94.3 pounds/day	with mitigation	84.6 pounds/day
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Sulfur Oxides

Truck travel for disposal	0.0 pounds/day	with mitigation	0.0 pounds/day
Truck travel for import material	0.0 pounds/day	with mitigation	0.0 pounds/day
Employees travel	0.0 pounds/day	with mitigation	0.0 pounds/day
Equipment	87.3 pounds/day	with mitigation	74.2 pounds/day

Total	87.3 pounds/day	with mitigation	74.2 pounds/day
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Project: Santa Rosa Subregional Long-Term Wastewater Project
 Subject: Construction - Daily Pump Station Emissions

Prepared By: I. Edmonds
 Date Prepared: 11/22/95
 Checked By: C. Chapin 11/22/95

Alternatives 2-3

Particulates			
Dust	14.9 pounds/day	with mitigation	13.1 pounds/day
Equipment exhaust	6.9 pounds/day	with mitigation	5.9 pounds/day
Total	21.8 pounds/day	with mitigation	19.0 pounds/day
Carbon monoxide			
	31.8 pounds/day	with mitigation	27.0 pounds/day
Nitrogen oxides			
	95.0 pounds/day	with mitigation	80.7 pounds/day
Hydrocarbons			
	6.6 pounds/day	with mitigation	5.6 pounds/day
Sulfur Oxides			
	9.6 pounds/day	with mitigation	8.2 pounds/day

Alternative 4

Includes pump stations and storage tanks			
Particulates			
Dust	41.7 pounds/day	with mitigation	28.5 pounds/day
Equipment exhaust	8.4 pounds/day	with mitigation	7.1 pounds/day
Total	50.1 pounds/day	with mitigation	33.6 pounds/day
Carbon monoxide			
	39.3 pounds/day	with mitigation	33.4 pounds/day
Nitrogen oxides			
	115.6 pounds/day	with mitigation	98.4 pounds/day
Hydrocarbons			
	7.7 pounds/day	with mitigation	6.5 pounds/day
Sulfur Oxides			
	11.9 pounds/day	with mitigation	10.1 pounds/day
Includes only storage tanks			
Particulates			
Dust	28.6 pounds/day	with mitigation	13.4 pounds/day
Equipment exhaust	1.4 pounds/day	with mitigation	1.2 pounds/day
Total	28.2 pounds/day	with mitigation	14.6 pounds/day
Carbon monoxide			
	7.6 pounds/day	with mitigation	6.4 pounds/day
Nitrogen oxides			
	20.8 pounds/day	with mitigation	17.7 pounds/day
Hydrocarbons			
	1.1 pounds/day	with mitigation	0.9 pounds/day
Sulfur Oxides			
	2.3 pounds/day	with mitigation	1.9 pounds/day

Pipelines

Particulates

Wind erosion for smaller pipe (2.8 lbs/site*1 site)	2.8 pounds/day	with mitigation	1.4 pounds/day
Wind erosion over staging areas (20.5 lbs/area*1 site)	20.5 pounds/day	with mitigation	10.3 pounds/day
Dust from truck travel for smaller pipe (0.8 lbs/site*1 site)	0.8 pounds/day	with mitigation	0.8 pounds/day
Dust from employees travel (11.2 lbs/site*1 site)	11.2 pounds/day	with mitigation	11.2 pounds/day
Exhaust from truck travel for smaller pipe (0.4 lbs/site*1 site)	0.4 pounds/day	with mitigation	0.4 pounds/day
Exhaust from employees travel (0.035 lbs/site*1 site)	0.0 pounds/day	with mitigation	0.0 pounds/day
Exhaust from equipment (2.58 lbs/site*1 site)	2.6 pounds/day	with mitigation	2.2 pounds/day
Dust from material handling for smaller pipe (1.1 lbs/site*1 site)	1.1 pounds/day	with mitigation	0.6 pounds/day
Dust from grading (27.6 lbs/site*1 site)	27.6 pounds/day	with mitigation	13.8 pounds/day
Total	67.0 pounds/day	with mitigation	40.6 pounds/day

Carbon monoxide

Truck travel for smaller pipe (1.7 lbs/site*1 site)	1.7 pounds/day	with mitigation	1.6 pounds/day
Employees travel (9.2 lbs/site*1 site)	9.2 pounds/day	with mitigation	8.7 pounds/day
Equipment (11.91 lbs/site*1 site)	11.9 pounds/day	with mitigation	10.1 pounds/day
Total	22.8 pounds/day	with mitigation	20.5 pounds/day

Nitrogen oxides

Truck travel for smaller pipe (2.1 lbs/site*1 site)	2.1 pounds/day	with mitigation	2.0 pounds/day
Employees travel (2.3 lbs/site*1 site)	2.3 pounds/day	with mitigation	2.2 pounds/day
Equipment (36.25 lbs/site*1 site)	36.3 pounds/day	with mitigation	30.8 pounds/day
Total	40.7 pounds/day	with mitigation	35.0 pounds/day

Hydrocarbons

Truck travel for smaller pipe (0.4 lbs/site*1 site)	0.4 pounds/day	with mitigation	0.4 pounds/day
Employees travel (1.0 lbs/site*1 site)	1.0 pounds/day	with mitigation	1.0 pounds/day
Equipment (2.35 lbs/site*1 site)	2.4 pounds/day	with mitigation	2.0 pounds/day
Total	3.8 pounds/day	with mitigation	3.3 pounds/day

Sulfur Oxides

Truck travel for smaller pipe	0.0 pounds/day	with mitigation	0.0 pounds/day
Employees travel	0.0 pounds/day	with mitigation	0.0 pounds/day
Equipment (3.73 lbs/site*1 site)	3.7 pounds/day	with mitigation	3.2 pounds/day
Total	3.7 pounds/day	with mitigation	3.17 pounds/day

Construction of Wells

Particulates

Wind erosion from site (0.005 lbs/site*1 site)	0.0 pounds/day	with mitigation	0.0 pounds/day
Drilling of well (0.021 lbs/well*1 well)	0.0 pounds/day	with mitigation	0.0 pounds/day
Dust from truck travel (0.06 lbs/site*1 site)	0.1 pounds/day	with mitigation	0.1 pounds/day
Dust from employees travel (11.2 lbs/site*1 site)	11.2 pounds/day	with mitigation	11.2 pounds/day
Exhaust from truck travel for smaller pipe (0.14 lbs/site*1 site)	0.1 pounds/day	with mitigation	0.1 pounds/day
Exhaust from employees travel (0.04 lbs/site*1 site)	0.0 pounds/day	with mitigation	0.0 pounds/day
Exhaust from equipment (9.43 lbs/site*1 site)	9.4 pounds/day	with mitigation	8.0 pounds/day
Dust from material handling for smaller pipe (0.1 lbs/site*1 site)	0.1 pounds/day	with mitigation	0.1 pounds/day
Dust from grading (0.08 lbs/site*1 site)	0.1 pounds/day	with mitigation	0.0 pounds/day
Total	21.1 pounds/day	with mitigation	19.6 pounds/day

Carbon monoxide

Truck travel (0.6 lbs/site*1 site)	0.6 pounds/day	with mitigation	0.6 pounds/day
Employees travel (9.3 lbs/site*1 site)	9.3 pounds/day	with mitigation	8.8 pounds/day
Equipment (52.33 lbs/site*1 site)	52.3 pounds/day	with mitigation	44.5 pounds/day
Total	62.2 pounds/day	with mitigation	53.9 pounds/day

Nitrogen oxides

Truck travel (0.76 lbs/site*1 site)	0.8 pounds/day	with mitigation	0.7 pounds/day
Employees travel (2.3 lbs/site*1 site)	2.3 pounds/day	with mitigation	2.2 pounds/day
Equipment (91.53 lbs/site*1 site)	91.5 pounds/day	with mitigation	77.8 pounds/day
Total	94.6 pounds/day	with mitigation	80.7 pounds/day

Hydrocarbons

Truck travel (0.16 lbs/site*1 site)	0.2 pounds/day	with mitigation	0.2 pounds/day
Employees travel (1.0 lbs/site*1 site)	1.0 pounds/day	with mitigation	1.0 pounds/day
Equipment (10.14 lbs/site*1 site)	10.1 pounds/day	with mitigation	8.6 pounds/day
Total	11.3 pounds/day	with mitigation	9.7 pounds/day

Project: Santa Rosa Subregional Long-Term Wastewater Project
Subject: Construction - Daily Emissions (ASR)

Prepared By: I. Edmonds
Date Prepared: 11/28/95
Checked By: C. Chapin 11/28/95

Sulfur Oxides

Truck travel	0.0 pounds/day	with mitigation	0.0 pounds/day
Employees travel	0.0 pounds/day	with mitigation	0.0 pounds/day
Equipment (7.60 lbs/site*1 site)	7.7 pounds/day	with mitigation	6.5 pounds/day
Total	7.7 pounds/day	with mitigation	6.54 pounds/day

Does not include pump station construction already calculated under pump stations

Particulates

Wind erosion for construction area (1.75 acres)	9.1 pounds/day	with mitigation	4.8 pounds/day
Wind erosion over staging area	35.3 pounds/day	with mitigation	17.7 pounds/day
Dust from truck travel for disposal	30.0 pounds/day	with mitigation	30.0 pounds/day
Dust from truck travel for import material	0.3 pounds/day	with mitigation	0.3 pounds/day
Dust from employees travel	11.2 pounds/day	with mitigation	11.2 pounds/day
Exhaust from truck travel for disposal	13.5 pounds/day	with mitigation	12.8 pounds/day
Exhaust from truck travel for import material	0.1 pounds/day	with mitigation	0.1 pounds/day
Exhaust from employees travel	0.0 pounds/day	with mitigation	0.0 pounds/day
Exhaust from equipment	10.0 pounds/day	with mitigation	8.5 pounds/day
Dust from material handling	0.9 pounds/day	with mitigation	0.5 pounds/day

Total 110.5 pounds/day with mitigation 85.6 pounds/day

Carbon monoxide

Truck travel for disposal	80.3 pounds/day	with mitigation	57.3 pounds/day
Truck travel for import material	0.6 pounds/day	with mitigation	0.6 pounds/day
Employees travel	9.3 pounds/day	with mitigation	8.8 pounds/day
Equipment	49.8 pounds/day	with mitigation	42.3 pounds/day

Total 120.0 pounds/day with mitigation 109.0 pounds/day

Nitrogen oxides

Truck travel for disposal	75.8 pounds/day	with mitigation	72.0 pounds/day
Truck travel for import material	0.8 pounds/day	with mitigation	0.8 pounds/day
Employees travel	2.3 pounds/day	with mitigation	2.2 pounds/day
Equipment	144.7 pounds/day	with mitigation	123.0 pounds/day

Total 223.6 pounds/day with mitigation 197.9 pounds/day

Hydrocarbons

Truck travel for disposal	16.0 pounds/day	with mitigation	15.2 pounds/day
Truck travel for import material	0.2 pounds/day	with mitigation	0.2 pounds/day
Employees travel	1.0 pounds/day	with mitigation	1.0 pounds/day
Equipment	9.6 pounds/day	with mitigation	8.4 pounds/day

Total 27.0 pounds/day with mitigation 24.7 pounds/day

Sulfur Oxides

Truck travel for disposal	0.0 pounds/day	with mitigation	0.0 pounds/day
Truck travel for import material	0.0 pounds/day	with mitigation	0.0 pounds/day
Employees travel	0.0 pounds/day	with mitigation	0.0 pounds/day
Equipment	14.8 pounds/day	with mitigation	12.5 pounds/day

Total 14.8 pounds/day with mitigation 12.5 pounds/day