APPENDIX 5.11A

Soil Loss Estimates Calculations

Table 5.11-3. Estimate of Soil Loss by Water Erosion Using Revised Universal Soil Loss Equation (RUSLE2)

Table 5.11-2. Estimate of Soil Loss by Water Erosion Using Revised Universal Soil Loss Equation (RUSLE2)

Feature (acreage)[2]	Activity	Duration (months)	Estimates Using Revised Universal Soil Loss Equation[1] Soil Loss (tons) without BMPs	Soil Loss (tons) with BMPs	Soil Loss (tons/yr) No Project
Site (9.7 acres estimated)	Grading	2	16.0	0.02	0.300
	Construction	14	5.2	0.15	---
Site Cut and Fill area (3.59 acres estimated)	Grading	3	13.0	0.17	0.15
	Construction	2	4.1	0.12	---
Site Access Road (1.2 acres estimated)	Grading	1	1.8	0.0	0.058
(1.2 acres exposed; will be paved or gravelled after grading)	Construction	14	0.0	0.0	---
Site Laydown Area (4.6 acres estimated)	Grading	1	1.5	0.0	0.124
	Construction	14	0.0	0.0	---
Site Laydown Area Access Roads (0.44 acres estimated)	Grading	1	0.3	0.0	0.012
	Construction	14	0.0	0.0	---
Transmission Line (5.15 acres for construction; 0.0020 acre	Grading	3	0.0030	0.010	0.00004
for pole footprints)	Construction	6	0.68	0.019	---
Transmission Line Laydown Area (0.6 acres estimated)	Grading	0	0.000	0.000	0.009
	Construction	6	0.000	0.000	---
Water Supply Pipeline (1.38 acres for construction; 0.44 acre	Grading	6	1.806	0.010	0.0112
for trench)	Construction	8	0.458	0.013	---
Water Supply Laydown Area (1.0 acre estimated)	Grading	0	0.000	0.000	0.030
	Construction	8	0.000	0.000	---
Natural Gas Pipeline (0.99 acre for construction; 0.04 acre for	Grading	2	0.05	0.0016	0.00258
trench)	Construction	6	0.17	0.0049	---
Project Soil Loss Estimates	**Construction Period**	**14**	**45.16**	**0.51**	**0.69**

Notes:

1. Soil losses (tons/acre/year) are estimated using RUSLE2 software available online [http://fargo.nserl.purdue.edu/rusle2_dataweb/].
   -The soil characteristics were estimated using RUSLE2 soil profiles corresponding to the mapped NRCS soil unit.
   -Soil loss (R-factors) were estimated using 2-year, 6-hour point precipitation frequency amount for the Mariposa Energy Facility project site found at [http://www.nws.noaa.gov/ohd/hdsc/noaaatlas2.htm].
   -Estimates of actual soil losses use the RUSLE2 soil loss times the duration and the affected area. The No Project Alternative estimate does not have a specific duration so loss is given as tons/year.
2. Acreages assume a 30 ft corridor for the transmission line and 100 ft corridors for the natural gas and water pipeline construction. Trenches for the natural gas and water pipelines are assumed to be 4 ft wide. The transmission line pole holes each have a 4 ft by 4 ft excavation footprint.

Other Project Assumptions as follows:
-It is assumed that 100% of the MEF project site will be exposed during grading, and approximately 10% of the site will be bare soil during construction.
-It is assumed that only the project site, a portion of the project site laydown areas, and project site access roads will be graded; all other areas will be 100% covered, either through natural vegetation or gravelling/paving.
-It is assumed that grading the project site will take 2 months and construction will take a total of 14 months.
-It is assumed that site cut and fill grading will occur over a 3 month period and will take an additional 2 months before permanent vegetation is established
-It is assumed that none of the laydown areas will be graded and that natural cover will be maintained (yielding negligible runoff).
-The overhead transmission line poles will have 4-foot x 4-foot footprints.
-It is assumed that the grading/excavation for the pole holes will be completed within 3 months and the entire installation will be completed within 6 months.
-It is assumed that the natural gas and water supply pipelines will be installed within a 4 ft wide trench and a 100 ft construction corridor.
-It is assumed that the natural gas pipeline will take 4 months to construct and will take another 2 months before permanent cover is established.
-It is assumed that the water supply pipeline will take 6 months to construct and an additional 2 months before permanent cover is established.
-It is assumed that the majority of the water supply pipeline construction will occur within Bruns Rd.
-It is assumed that an on-site septic system will be constructed and a sanitary sewer line will not be constructed.

RUSLE2 Assumptions as follows:
100-ft slope length. Estimated soil unit slope is the midpoint of the minimum and maximum of the unit slope class.
Construction soil losses assume the following inputs: Management - Bare ground; Contouring - None, rows up and down hill; Diversion/terracing - None; Strips and Barriers - None.
Grading soil losses assume the following inputs: Management - Bare ground/rough surface; Contouring - None, rows up and down hill; Diversion/terracing - None; Strips and Barriers - None.
Construction with BMP soil losses assume the following inputs: Management - Silt fence; Contouring - Perfect, no row grade; Diversion/terracing - None; Strips and Barriers - 2 fences, 1 at end of RUSLE slope.
No Project soil losses assume the following inputs: Management - Dense grass, not harvested; Contouring - None, rows up and down hill; Diversion/terracing - None; Strips and Barriers - None.

Soil Type	Acreage		Soil Loss Estimates Using RUSLE2 software (tons/ac/year)			
		Slope	Grading	Construction w/o BMPs	Construction with BMPs	No Project
Project Site						
Sa/Sccc	0.57	4.5	7.8	3.5	0.098	0.026
LaD	1.67	23.0	25.0	12.0	0.34	0.064
AaC	1.67	9.0	7.8	3.7	0.10	0.027
RdB	5.78	5.0	6.4	2.9	0.081	0.023
	0.97	**Subtotal**	**96.20**	**4.50**	**0.13**	**0.30**
Site Cut and Fill Area						
AaC	1.77	9.0	7.8	3.7	0.10	0.027
LaD	1.41	23.0	25.0	12.0	0.34	0.064
RdB	0.25	5.0	6.4	2.9	0.081	0.023
Sa	0.16	4.5	7.8	3.5	0.098	0.026
	3.59	**Subtotal**	**51.90**	**24.75**	**0.69**	**0.15**
Site Access Road						
Sa/Sccc	0.42	4.5	7.8	3.5	0.098	0.026
LaD	0.74	23.0	25.0	12.0	0.34	0.064
	0.00	**Subtotal**	**21.78**	**0.0**	**0.0**	**0.058**
Site Laydown Area						
AaC	**2.30**	9.0	7.8	3.7	0.10	0.027
	4.60	**Subtotal**	**17.9**	**0.0**	**0.0**	**0.124**
Laydown Area Access Rds						
AaC	0.44	9.0	7.8	3.7	0.10	0.027
RdB	0.005	5.0	6.4	2.9	0.081	0.023
	0.00	**Subtotal**	**3.5**	**0.0**	**0.0**	**0.012**
Transmission Line						
Sf/Sfaa	0.0009	2.0	3.6	1.6	0.045	0.015
Sa/Sccc	0.0009	4.5	7.8	3.5	0.098	0.026
AaC	0.0002	9.0	7.8	3.7	0.10	0.027
	0.52	**Subtotal**	**0.012**	**1.369**	**0.038**	**0.00004**
T-Line Laydown						
Sf/Sfaa	0.60	2.0	3.6	1.6	0.045	0.015
	0.00	**Subtotal**	**0.00**	**0.00**	**0.00**	**0.009**
Water Supply Pipeline						
Sf/Sfaa	0.08	2.0	3.6	1.6	0.045	0.015
LaC	0.17	9.0	8.0	3.7	0.10	0.024
LaD	0.03	23.0	25.0	12.0	0.34	0.064
LbDcc/LbD	0.03	10.0	9.3	4.4	0.12	0.028
Sa/Sccc	0.13	4.5	7.8	3.5	0.098	0.026
	0.14	**Subtotal**	**3.61**	**0.69**	**0.02**	**0.011**
Water Supply Laydown						
Sc	1.00	4.5	9.1	4.0	0.11	0.03
	0.00	**Subtotal**	**0.00**	**0.00**	**0.00**	**0.030**
Natural Gas Pipeline						
Sa/Sccc	0.04	4.5	7.8	3.5	0.098	0.026
	0.10	**Subtotal**	**0.31**	**0.35**	**0.01**	**0.003**
Sewer Line						
On-site connection	**0.00**	**Subtotal**	**0.00**	**0.00**	**0.00**	**0.00**

Assumptions:
Assumes slope is the mid-point of the slope class
Assumes no grading at any of the laydown areas or access roads, with the exception of the project site laydown area and access road).

Project site is currently 10% bare soil and would have same proportion during construction.
100% of project site would be bare soil during grading.
100% of pole holes will be bare soil during grading/excavation.
100% of the cut and fill area will be bare soil during grading/excavation

Transmission pole impact area assumes a 4 ft by 4 ft footprint times the number of poles
The No Project soil loss assumes a 'dense grass, not harvested' management scenario.

Project: DGC-Kelso - Jenny Krenz updated 05/08/09 based on e-mail from Mike Haskell

OBJECTID	AREASYMBOL	Length	Shape_Area_SF	Acres	Acreage_tot	
MEP Site	Sa/Sccc			0.57	0.57	Acres from Mike Haskell, 3/19/2009
	LaD			1.67	1.67	Acres from Mike Haskell, 3/19/2009
	AaC			1.67	1.67	Acres from Mike Haskell, 3/19/2009
	RdB			5.78	5.78	Acres from Mike Haskell, 3/19/2009
				9.7	**0.97**	Assumes only 10% of site is bare soil during construction
Cut and Fill area at Site	AaC			1.77	**1.77**	Acres from Mike Haskell, 5/08/09
	LaD			1.41	**1.41**	Acres from Mike Haskell, 5/08/09
	RdB			0.25	**0.25**	Acres from Mike Haskell, 5/08/09
	Sa			0.16	**0.16**	Acres from Mike Haskell, 5/08/09
				3.59	**3.59**	Assumes 100% of the cut and fill area is bare soil during cut and fill construction
Access to Site	Sa/Sccc	454.72	18188.8	0.42	0.42	Assumes 40 foot wide roadway access; Length from Mike Haskell, 3/19/2009
	LaD	806.92	32276.7	0.74	0.74	Assumes 40 foot wide roadway access; Length from Mike Haskell, 3/19/2009
				1.2	**0.00**	Assumes access is completely covered (paved or gravelled) after grading
Site Laydown Area	AaC			4.60	4.60	
				2.30	**0.00**	Assumes 1/2 of the laydown area is graded; Laydown area is completely paved; Email from Doug Urry 3/25/09
Access to Laydown Area	AaC	637.11	19113.2	0.44		Assumes 30 foot wide roadways access; Length from Mike Haskell, 3/19/2009
	RdB	7.04	211.3	0.0049		Assumes 30 foot wide roadways access; Length from Mike Haskell, 3/19/2009
				0.44	**0.00**	Assumes access roads are completely paved after grading; E-mail from Robert Smith/DEN 3/25/09
			# of poles	**Pole Holes**	**Construction Corridor**	
Transmission Line	Sf/Sfaa	1652.76	3	0.0009	**2.324**	Assumes 12 sq ft hole for each pole spaced at 500 ft. Assumes 50 ft construction corridor along length, and 100x100 ft construction corridor at each pole. Length from Mike Haskell, 05/07/09; spacing from Doug Urry, 3/25/09.
	Sa/Sccc	1720.65	3	0.0009	**2.419**	Assumes 12 sq ft hole for each pole spaced at 500 ft. Assumes 50 ft construction corridor along length, and 100x100 ft construction corridor at each pole. Length from Mike Haskell, 05/07/09; spacing from Doug Urry, 3/25/09.
	AaC	289.86	1	0.0002	**0.408**	Assumes 12 sq ft hole for each pole spaced at 500 ft. Assumes 50 ft construction corridor along length, and 100x100 ft construction corridor at each pole. Length from Mike Haskell, 05/07/09; spacing from Doug Urry, 3/25/09.
		subtotal	**7**	**0.0020**	**5.15**	Assumes pole hole footprint unprotected until pole installed
					0.515	Assumes 10% of the corridor is unprotected during construction
T Line Laydown Area	Sf/Sfaa			0.6	0.6	
					0.00	Assumes no grading and laydown area is completely covered (paved or gravelled) during construction
		Trench	**Corridor**	**Trench Acres**	**Construction Corridor Acres**	
Water Supply Pipeline	Sf/Sfaa	1719.26	0	0.08	0.00	Assumes 2 ft wide trench, primarily in Bruns Rd; 30 ft wide construction corridor for areas not under Bruns Rd; No additional corridor for under Bruns Rd; Length from Mike Haskell, 3/19/2009; additional info from Doug Urry, 3/25/09; corridor length estimated by JLK on 3/27/09 - waiting to hear from Mike
	LaC	3685.39	0	0.17	0.00	Assumes 2 ft wide trench, primarily in Bruns Rd; 30 ft wide construction corridor for areas not under Bruns Rd; No additional corridor for under Bruns Rd; Length from Mike Haskell, 3/19/2009; additional info from Doug Urry, 3/25/09; corridor length estimated by JLK on 3/27/09 - waiting to hear from Mike
	LaD	579.44	350	0.03	0.24	Assumes 2 ft wide trench, primarily in Bruns Rd; 30 ft wide construction corridor for areas not under Bruns Rd; No additional corridor for under Bruns Rd; Length from Mike Haskell, 3/19/2009; additional info from Doug Urry, 3/25/09; corridor length estimated by JLK on 3/27/09 - waiting to hear from Mike
	LbDcc	633.55	0	0.03	0.00	Assumes 2 ft wide trench, primarily in Bruns Rd; 30 ft wide construction corridor for areas not under Bruns Rd; No additional corridor for under Bruns Rd; Length from Mike Haskell, 3/19/2009; additional info from Doug Urry, 3/25/09; corridor length estimated by JLK on 3/27/09 - waiting to hear from Mike
	Sa/Sccc	2898.58	1650	0.13	1.14	Assumes 2 ft wide trench, primarily in Bruns Rd; 30 ft wide construction corridor for areas not under Bruns Rd; No additional corridor for under Bruns Rd; Length from Mike Haskell, 3/19/2009; additional info from Doug Urry, 3/25/09; corridor length estimated by JLK on 3/27/09 - waiting to hear from Mike
				0.44	1.38	Assumes trench is 100% exposed during construction
					0.14	Assumes corridor is 10% exposed during construction
Water Supply Laydown Area	Sc				1.0	
					0.00	Assumes laydown area is completely covered (paved or gravelled) during construction
				Trench Acres	**Construction Corridor Acres**	
Natural Gas Supply Pipeline	Sa/Sccc	576.73		0.04	0.99	Assumes 3 ft wide trench & 75 ft wide construction corridor; length from Mike Haskell, 05/07/09; details from Doug Urry, 3/25/09
				0.04	0.99	Assumes trench is 100% exposed during construction
					0.10	Assumes corridor is 10% exposed during construction
Sewer Line	-	0		**0**	**0**	Assumes on-site connection

Table 5.11-4. Estimate of Total Suspended Particulates (TSP) Emitted from Grading and Wind Erosion

Table 5.11-3. Estimate of Total Suspended Particulates (TSP) Emitted from Grading and Wind Erosion				
Emission Source	**Acreage**	**Duration (months)**	**Unmitigated TSP (tons)**	**Mitigated TSP (tons)**
Grading Dust:				
Project Site	9.69	2	0.333	0.117
Site Cut and Fill Area	3.59	3	0.185	0.065
Project Site Access Road	1.16	1	0.020	0.007
Project Site Laydown Area	2.30	1	0.040	0.014
Project Site Laydown Area Access Road	0.44	1	0.008	0.003
Transmission Line Pole Holes	0.0020	3	0.00010	0.00004
Transmission Line Laydown Area	0.60	0	0.000	0.000
Water Supply Line Trench	0.44	6	0.045	0.016
Water Supply Line Laydown Area	1.00	0	0.000	0.000
Natural Gas Pipeline Trench	0.04	2	0.00137	0.00048
Wind Blown Dust:				
Project Site	0.97	12	0.368	0.129
Site Cut and Fill Area	3.59	2	0.227	0.080
Project Site Access Road	0.00	14	0.000	0.000
Project Site Laydown Area	0.00	14	0.000	0.000
Project Site Laydown Area Access Road	0.00	14	0.000	0.000
Transmission Line Pole Holes	0.002018	6	0.00038	0.00013
Transmission Line Laydown Area	0.00	6	0.000	0.000
Water Supply Line Corridor	0.14	8	0.035	0.012
Water Supply Line Laydown Area	0.00	8	0.000	0.000
Natural Gas Pipeline Corridor	0.0993	6	0.0189	0.0066
Estimated Total		14	1.281	0.448

Notes:
All linear feature impacts noted above are for portions outside of the project areas footprints.

Project Assumptions:
Grading for project site will be completed in a 2 month period and construction will extend an additional 12 months.
Approximately 1/10th of the project site will have bare soil exposure during the length of the construction period.
None of the laydown areas (except a portion of the project site laydown area) will be graded. It is expected that all roadway and laydown areas would be covered (gravelled or paved) for all season use.
Excavation of transmission line pole holes will take 3 months followed by a 3 month construction period.
The transmission poles will have a 4 by 4 foot area for a total impact permanent area of 0.0075 acre.
The natural gas line and water supply line will be installed in a 4-ft trench with a 100-ft construction corridor.
The natural gas and water supply trenches will be 100% exposed during the excavation period, with permenant vegetation restored after installation.
The 100 ft construction corridors will remain in natural vegetation, with approximately 10% bare soil exposed
It is assumed grading activities will be limited to the project site and the project site access road.

Data Sources:
[a] PM10 Emission Factor Source: Midwest Research Institute, South Coast AQMD Project No. 95040, Level 2 Analysis Procedure, March 1996
[b] PM10 to TSP Conversion Factor Source: Bay Area Air Quality Management District CEQA Guidelines, Assessing the Air Quality Impacts of Projects, December 1999.
SCAQMD CEQA Handbook (1993) Table 11-4 for mitigation efficiency rates (as summarized in Table 8.9-4)

Project: Mariposa Energy Facility JLK 5/08/09

Dust from Wind Erosion - With and Without Mitigation

Grading		MRI factor of 0.011 tons/acre/month is based on 168 hours per month of construction activity.
PM10 Emission Factor (ton/acre/month)[a]	0.011	Fact Sheet, 4/26/2007.
Project Site		
Duration (months):	2	Assumes 2 months of active grading.
Site Acreage:	9.69	Assumes 100% of site is graded
PM10 Emitted (tons):	0.21	
TSP Emitted (tons)[b]:	**0.333**	assume TSP is 64% PM10
Mitigated TSP Emitted (tons):	**0.117**	Assume 65% reduction in PM10 with watering thrice daily per SCAQMD CEQA Handbook (1993) Table 11-4
Site Cut and Fill Area		
Duration (months):	3	Assumes 3 months of active grading
Site Acreage:	3.59	Assumes 100% of area will be graded
PM10 Emitted (tons):	0.12	
TSP Emitted (tons)[b]:	**0.185**	assume TSP is 64% PM10
Mitigated TSP Emitted (tons):	**0.065**	Assume 65% reduction in PM10 with watering thrice daily per SCAQMD CEQA Handbook (1993) Table 11-4
Project Site Access Road		
Duration (months):	1	Assumes one month to grade
Site Acreage:	1.16	Assumes 100% of access road is graded
PM10 Emitted (tons):	0.01	
TSP Emitted (tons)[b]:	**0.020**	assume TSP is 64% PM10
Mitigated TSP Emitted (tons):	**0.007**	Assume 65% reduction in PM10 with watering thrice daily per SCAQMD CEQA Handbook (1993) Table 11-4
Project Site Laydown Area		
Duration (months):	1	Assumes project site laydown area will be partially graded (1/2 estimated).
Site Acreage:	2.30	
PM10 Emitted (tons):	0.03	
TSP Emitted (tons)[b]:	**0.040**	assume TSP is 64% PM10
Mitigated TSP Emitted (tons):	**0.014**	Assume 65% reduction in PM10 with watering thrice daily per SCAQMD CEQA Handbook (1993) Table 11-4
Project Site Laydown Area Access Road		
Duration (months):	1	Assumes project site laydown access road will be graded.
Site Acreage:	0.44	
PM10 Emitted (tons):	0.00	
TSP Emitted (tons)[b]:	**0.008**	assume TSP is 64% PM10
Mitigated TSP Emitted (tons):	**0.003**	Assume 65% reduction in PM10 with watering thrice daily per SCAQMD CEQA Handbook (1993) Table 11-4
Transmission Line Pole Holes		
Duration (months):	3	Assumes 3 months to grade
Site Acreage:	0.0020	
PM10 Emitted (tons):	0.0001	
TSP Emitted (tons)[b]:	**0.0001**	assume TSP is 64% PM10
Mitigated TSP Emitted (tons):	**0.0000**	Assume 65% reduction in PM10 with watering thrice daily per SCAQMD CEQA Handbook (1993) Table 11-4
Transmission Line Laydown Area		
Duration (months):	0	Assumes transmission line laydown area WILL NOT be graded.
Site Acreage:	0.60	
PM10 Emitted (tons):	0.00	
TSP Emitted (tons)[b]:	**0.000**	assume TSP is 64% PM10
Mitigated TSP Emitted (tons):	**0.000**	Assume 65% reduction in PM10 with watering thrice daily per SCAQMD CEQA Handbook (1993) Table 11-4
Water Supply Line Trench		
Duration (months):	6	Assumes 4 months to grade pipeline
Site Acreage:	0.437	
PM10 Emitted (tons):	0.0288	
TSP Emitted (tons)[b]:	**0.0451**	assume TSP is 64% PM10
Mitigated TSP Emitted (tons):	**0.0158**	Assume 65% reduction in PM10 with watering thrice daily per SCAQMD CEQA Handbook (1993) Table 11-4
Water Supply Line Laydown Area		
Duration (months):	0	Assumes water supply line laydown area WILL NOT be graded.
Site Acreage:	1.00	
PM10 Emitted (tons):	0.0000	
TSP Emitted (tons)[b]:	**0.0000**	assume TSP is 64% PM10
Mitigated TSP Emitted (tons):	**0.0000**	Assume 65% reduction in PM10 with watering thrice daily per SCAQMD CEQA Handbook (1993) Table 11-4
Natural Gas Pipeline Trench		
Duration (months):	2	Assumes 2 months to grade pipeline
Site Acreage:	0.040	
PM10 Emitted (tons):	0.0009	
TSP Emitted (tons)[b]:	**0.0014**	assume TSP is 64% PM10
Mitigated TSP Emitted (tons):	**0.0005**	Assume 65% reduction in PM10 with watering thrice daily per SCAQMD CEQA Handbook (1993) Table 11-4
Sanitary Sewer Line		
Duration (months):	0	Assumes on-site connection
Site Acreage:	0.000	
PM10 Emitted (tons):	0.0000	
TSP Emitted (tons)[b]:	**0.0000**	assume TSP is 64% PM10
Mitigated TSP Emitted (tons):	**0.0000**	Assume 65% reduction in PM10 with watering thrice daily per SCAQMD CEQA Handbook (1993) Table 11-4
Total Unmitigated TSP Emitted (tons):	**0.632**	
Total Mitigated TSP Emitted (tons):	**0.221**	Assume 65% reduction in PM10 with watering thrice daily per SCAQMD CEQA Handbook (1993) Table 11-4

[a]Emission Factor Source: Midwest Research Institute, South Coast AQMD Project No. 95040, March 1996, Level 2 Analysis Procedure

[b] Conversion Factor Source: Bay Area Air Quality Management District (BAAQMD) BAAQMD CEQA Guidelines, Assessing the Air Quality Impacts of Projects and Plans. December 1999

Wind Blown Dust		
TSP Emission Factor (ton/acre/year)	0.38	Emission Factor Source: AP-42, Section 11.9 Western Surface Coal Mining Table 11.9-4, January 1995.
Project Site		
Acres exposed	0.97	Assumes that only 10% of the project area is exposed during construction
Duration (months)	12	Assumes 12 months of construction after grading
TSP Emitted for Site (tons):	**0.368**	
Mitigated TSP Emitted (tons):	**0.129**	Assume 65% reduction in TSP with watering thrice daily per SCAQMD CEQA Handbook (1993) Table 11-4
Site Cut and Fill Area		
Duration (months):	2.00	Assumes it will take 2 months for revegetation
Site Acreage:	3.59	100% of the cut and fill area will be disturbed
PM10 Emitted (tons):	**0.227**	
TSP Emitted (tons)[b]:	**0.080**	Assume 65% reduction in TSP with watering thrice daily per SCAQMD CEQA Handbook (1993) Table 11-4
Project Site Access Road		
Acres exposed	0.00	Assumes project site access road is completely covered with gravel or other material after grading
Duration (months)	14	Assumes 14 months of construction traffic
TSP Emitted for Site (tons):	**0.000**	
Mitigated TSP Emitted (tons):	**0.000**	Assume 65% reduction in TSP with watering thrice daily per SCAQMD CEQA Handbook (1993) Table 11-4
Project Site Laydown Area		
Acres exposed	0.00	Assumes project site laydown area is completely covered (natural veg, gravelled or paved) during construction
Duration (months)	14	Assumes 14 months of construction traffic
TSP Emitted for Site (tons):	**0.000**	
Mitigated TSP Emitted (tons):	**0.000**	Assume 65% reduction in TSP with watering thrice daily per SCAQMD CEQA Handbook (1993) Table 11-4
Project Site Laydown Area Access Road		
Acres exposed	0.00	Assumes project site laydown access road is completely covered (natural veg, gravelled or paved) during construction
Duration (months):	14	Assumes 14 months of construction traffic
TSP Emitted (tons)[b]:	**0.000**	
Mitigated TSP Emitted (tons):	**0.000**	Assume 65% reduction in TSP with watering thrice daily per SCAQMD CEQA Handbook (1993) Table 11-4
Transmission Line Pole Footprints		
Acres exposed	0.0020	Assumes pole holes are unprotected until pole installed
Duration (months)	6	Assumes 6 months of excavation & installation
TSP Emitted for Site (tons):	**0.00038**	
Mitigated TSP Emitted (tons):	**0.000134**	Assume 65% reduction in TSP with watering thrice daily per SCAQMD CEQA Handbook (1993) Table 11-4
Transmission Line Laydown Area		
Acres exposed	0.000	Assumes transmission line laydown area is completely covered (natural veg, gravelled or paved) during construction
Duration (months):	6	Assumes 6 months of construction
TSP Emitted (tons)[b]:	**0.000**	
Mitigated TSP Emitted (tons):	**0.000**	Assume 65% reduction in TSP with watering thrice daily per SCAQMD CEQA Handbook (1993) Table 11-4
Water Supply Line Corridor		
Acres exposed	0.138	Assumes corridor is 10% exposed during construction
Duration (months):	8	Assumes 8 months of construction
TSP Emitted (tons)[b]:	**0.035**	
Mitigated TSP Emitted (tons):	**0.012**	Assume 65% reduction in TSP with watering thrice daily per SCAQMD CEQA Handbook (1993) Table 11-4
Water Supply Line Laydown Area		
Acres exposed	0.000	Assumes water supply line laydown area is completely covered (natural veg, gravelled or paved) during construction
Duration (months)	8	Assumes 8 months of construction
TSP Emitted for Site (tons):	**0.000**	
Mitigated TSP Emitted (tons):	**0.000**	Assume 65% reduction in TSP with watering thrice daily per SCAQMD CEQA Handbook (1993) Table 11-4
Natural Gas Pipeline Corridor		
Acres exposed	0.099	Assumes corridor is 10% exposed during construction
Duration (months)	6	Assumes 6 months of construction
TSP Emitted for Site (tons):	**0.019**	
Mitigated TSP Emitted (tons):	**0.007**	Assume 65% reduction in TSP with watering thrice daily per SCAQMD CEQA Handbook (1993) Table 11-4
Sanitary Sewer Line		
Acres exposed	0.000	Assumes on-site construction
Duration (months)	0	
TSP Emitted for Site (tons):	**0.000**	
Mitigated TSP Emitted (tons):	**0.000**	Assume 65% reduction in TSP with watering thrice daily per SCAQMD CEQA Handbook (1993) Table 11-4
Total Wind Blown Dust (tons) without mitiga	**0.650**	
Total WBD (tons) with mitigation	**0.227**	Assume 65% reduction in PM10 with watering thrice daily per SCAQMD CEQA Handbook (1993) Table 11-4
Project total without mitigation	**1.281**	
Project total with mitigation	**0.448**	