

Appendix E

Air Quality and Greenhouse Gas Analysis Supporting Documentation

Restoration Activities

Phase	Code	Start Date	End Date	Working Days
Lower Hole Creek				
Mobilization	1-1	2019/1/1	2019/1/3	3
Clearing & Grubbing	1-2	2019/1/3	2019/1/8	3
Invasive Plant Removal	1-3	2019/1/3	2019/2/15	28
Channel and Floodplain Earthwork	1-4	2019/1/8	2019/3/15	25
Streambank Erosion Protection	1-5	2019/1/21	2019/3/15	10
In-Stream Habitat Features	1-6	2019/1/21	2019/3/20	28
Seeding and Planting	1-7	2019/4/1	2019/4/21	15
Demobilization	1-8	2019/4/21	2019/4/23	2
Old Farm Creek				
Mobilization	2-1	2019/1/1	2019/1/3	3
Clearing & Grubbing	2-2	2019/1/3	2019/1/13	8
Invasive Plant Removal	2-3	2019/1/3	2019/2/10	26
Channel and Floodplain Earthwork	2-4	2019/1/13	2019/4/25	35
Concrete Box Culvert Installation	2-5	2019/3/1	2019/3/15	12
In-Stream Habitat Features	2-6	2019/1/20	2019/4/30	40
Seeding and Planting	2-7	2019/5/1	2019/7/7	45
Demobilization	2-8	2019/7/7	2019/7/9	2
Anza Drain				
Mobilization	3-1	2020/1/1	2020/1/3	3
Clearing & Grubbing	3-2	2020/1/3	2020/1/9	5
Invasive Plant Removal	3-3	2020/1/3	2020/2/29	40
Channel and Floodplain Earthwork	3-4	2020/1/9	2020/2/25	32
Streambank Erosion Protection	3-5	2020/1/21	2020/2/25	8
In-Stream Habitat Features	3-6	2020/1/21	2020/2/30	10
Seeding and Planting	3-7	2020/3/1	2020/3/9	7
Demobilization	3-8	2020/3/9	2020/3/11	2
Hidden Valley Creek				
Mobilization	4-1	2020/1/1	2020/1/3	3
Clearing & Grubbing	4-2	2020/1/3	2020/1/22	13
Invasive Plant Removal	4-3	2020/1/3	2020/1/24	14
Channel and Floodplain Earthwork	4-4	2020/1/22	2020/3/15	53
In-Stream Habitat Features	4-5	2020/2/1	2020/3/10	22
Concrete Box Culvert Installation	4-6	2020/3/1	2020/3/10	6
Seeding and Planting	4-7	2020/4/1	2020/4/28	20
Demobilization	4-8	2020/4/28	2020/4/30	2

3-2	Chain Saw	1	6	9	0.6	8.2	0.2	22.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.1	0.2	22.4	0.0	0.0	0.0	0.1	0.0	0.0	0.3
3-2	Excavator/Small Excavator	1	4	158	0.4	0.1	1.3	1.6	0.1	0.1	0.0	0.0	0.0	0.0	0.1	1.2	1.6	0.1	0.1	0.0	0.6	0.0	0.0	0.6	
3-3	2 Person ATV	1	1	9	0.4	0.1	0.0	3.9	0.0	0.0	0.0	0.0	0.0	0.1	0.0	3.9	0.0	0.0	0.0	0.1	0.0	0.0	0.1		
3-3	Chain Saw	1	2	9	0.6	2.7	0.1	7.5	0.0	0.0	0.0	0.0	0.0	2.7	0.1	7.5	0.0	0.0	0.0	0.4	0.0	0.0	0.8		
3-3	Excavator/Small Excavator	1	6	158	0.4	0.2	2.0	2.5	0.1	0.1	0.0	0.0	0.0	0.2	1.8	2.5	0.1	0.1	0.0	6.8	0.0	0.0	6.9		
3-4	2 CY Loader	1	1	203	0.4	0.1	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.2	0.0	0.0	0.0	1.1	0.0	0.0	1.1		
3-4	Bulldozer/Small Bulldozer	1	2	247	0.4	0.3	3.0	1.1	0.1	0.1	0.0	0.0	0.0	0.3	2.8	1.0	0.1	0.1	0.0	3.0	0.0	0.0	3.0		
3-4	Excavator/Small Excavator	1	8	158	0.4	0.3	2.7	3.3	0.1	0.1	0.0	0.0	0.0	0.2	2.4	3.3	0.1	0.1	0.0	7.3	0.0	0.0	7.4		
3-4	Excavator/Small Excavator	1	8	158	0.4	0.3	2.7	3.3	0.1	0.1	0.0	0.0	0.0	0.2	2.4	3.3	0.1	0.1	0.0	7.3	0.0	0.0	7.4		
3-5	2 CY Loader	1	1	203	0.4	0.1	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.2	0.0	0.0	0.0	0.3	0.0	0.0	0.3		
3-5	Excavator/Small Excavator	1	8	158	0.4	0.3	2.7	3.3	0.1	0.1	0.0	0.0	0.0	0.2	2.4	3.3	0.1	0.1	0.0	1.8	0.0	0.0	1.9		
3-5	Excavator/Small Excavator	1	8	158	0.4	0.3	2.7	3.3	0.1	0.1	0.0	0.0	0.0	0.2	2.4	3.3	0.1	0.1	0.0	1.8	0.0	0.0	1.9		
3-5	Handheld Vibratory Compactor	1	4	8	0.4	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.1		
3-6	2 CY Loader	1	1	203	0.4	0.1	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.2	0.0	0.0	0.0	0.3	0.0	0.0	0.4		
3-6	2 Person ATV	1	2	9	0.4	0.1	0.1	7.7	0.0	0.0	0.0	0.0	0.0	0.1	0.1	7.7	0.0	0.0	0.0	0.1	0.0	0.0	0.1		
3-6	Excavator/Small Excavator	1	8	158	0.4	0.3	2.7	3.3	0.1	0.1	0.0	0.0	0.0	0.2	2.4	3.3	0.1	0.1	0.0	2.3	0.0	0.0	2.3		
3-6	Excavator/Small Excavator	1	4	158	0.4	0.1	1.3	1.6	0.1	0.1	0.0	0.0	0.0	0.1	1.2	1.6	0.1	0.1	0.0	1.1	0.0	0.0	1.2		
3-7	2 Person ATV	1	8	9	0.4	0.5	0.3	30.9	0.0	0.0	0.0	0.0	0.0	0.5	0.3	30.9	0.0	0.0	0.0	0.2	0.0	0.0	0.2		
3-7	2 Person ATV	1	8	9	0.4	0.5	0.3	30.9	0.0	0.0	0.0	0.0	0.0	0.5	0.3	30.9	0.0	0.0	0.0	0.2	0.0	0.0	0.2		
3-8	Bulldozer/Small Bulldozer	1	2	247	0.4	0.3	3.0	1.1	0.1	0.1	0.0	0.0	0.0	0.3	2.8	1.0	0.1	0.1	0.0	0.2	0.0	0.0	0.2		
4-1	2 CY Loader	1	2	203	0.4	0.1	1.2	0.4	0.0	0.0	0.0	0.0	0.0	0.1	1.1	0.4	0.0	0.0	0.0	0.2	0.0	0.0	0.2		
4-1	Bulldozer/Small Bulldozer	1	2	247	0.4	0.3	3.0	1.1	0.1	0.1	0.0	0.0	0.0	0.3	2.8	1.0	0.1	0.1	0.0	0.3	0.0	0.0	0.3		
4-2	2 Person ATV	1	2	9	0.4	0.1	0.1	7.7	0.0	0.0	0.0	0.0	0.0	0.1	0.1	7.7	0.0	0.0	0.0	0.1	0.0	0.0	0.1		
4-2	Chain Saw	1	6	9	0.6	8.2	0.2	22.6	0.0	0.0	0.0	0.0	0.0	8.1	0.2	22.4	0.0	0.0	0.0	0.3	0.0	0.0	0.8		
4-2	Chain Saw	1	6	9	0.6	8.2	0.2	22.6	0.0	0.0	0.0	0.0	0.0	8.1	0.2	22.4	0.0	0.0	0.0	0.3	0.0	0.0	0.8		
4-2	Excavator/Small Excavator	1	4	158	0.4	0.1	1.3	1.6	0.1	0.1	0.0	0.0	0.0	0.1	1.2	1.6	0.1	0.1	0.0	1.5	0.0	0.0	1.5		
4-3	2 Person ATV	1	1	9	0.4	0.1	0.0	3.9	0.0	0.0	0.0	0.0	0.0	0.1	0.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
4-3	Chain Saw	1	2	9	0.6	2.7	0.1	7.5	0.0	0.0	0.0	0.0	0.0	2.7	0.1	7.5	0.0	0.0	0.0	0.1	0.0	0.0	0.3		
4-3	Excavator/Small Excavator	1	6	158	0.4	0.2	2.0	2.5	0.1	0.1	0.0	0.0	0.0	0.2	1.8	2.5	0.1	0.1	0.0	2.4	0.0	0.0	2.4		
4-4	2 CY Loader	1	1	203	0.4	0.1	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.2	0.0	0.0	0.0	1.8	0.0	0.0	1.9		
4-4	Bulldozer/Small Bulldozer	1	2	247	0.4	0.3	3.0	1.1	0.1	0.1	0.0	0.0	0.0	0.3	2.8	1.0	0.1	0.1	0.0	4.9	0.0	0.0	5.0		
4-4	Excavator/Small Excavator	1	8	158	0.4	0.3	2.7	3.3	0.1	0.1	0.0	0.0	0.0	0.2	2.4	3.3	0.1	0.1	0.0	12.1	0.0	0.0	12.3		
4-4	Excavator/Small Excavator	1	8	158	0.4	0.3	2.7	3.3	0.1	0.1	0.0	0.0	0.0	0.2	2.4	3.3	0.1	0.1	0.0	12.1	0.0	0.0	12.3		
4-5	2 CY Loader	1	1	203	0.4	0.1	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.2	0.0	0.0	0.0	0.8	0.0	0.0	0.8		
4-5	2 Person ATV	1	2	9	0.4	0.1	0.1	7.7	0.0	0.0	0.0	0.0	0.0	0.1	0.1	7.7	0.0	0.0	0.0	0.1	0.0	0.0	0.1		
4-5	Excavator/Small Excavator	1	8	158	0.4	0.3	2.7	3.3	0.1	0.1	0.0	0.0	0.0	0.2	2.4	3.3	0.1	0.1	0.0	5.0	0.0	0.0	5.1		
4-5	Excavator/Small Excavator	1	4	158	0.4	0.1	1.3	1.6	0.1	0.1	0.0	0.0	0.0	0.1	1.2	1.6	0.1	0.1	0.0	2.5	0.0	0.0	2.5		
4-5	Pavement Roller	1	6	80	0.4	0.2	1.7	1.4	0.1	0.1	0.0	0.1	0.2	1.5	1.4	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.1		
4-6	2 CY Loader	1	0.5	203	0.4	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.1		
4-6	Bulldozer/Small Bulldozer	1	0.5	247	0.4	0.1	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.7	0.3	0.0	0.0	0.0	0.1	0.0	0.0	0.1		
4-6	Excavator/Small Excavator	1	4	158	0.4	0.1	1.3	1.6	0.1	0.1	0.0	0.0	0.0	0.1	1.2	1.6	0.1	0.1	0.0	0.7	0.0	0.0	0.7		
4-6	Handheld Vibratory Compactor	1	1	8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
4-6	Pavement Roller	1	6	80	0.4	0.2	1.7	1.4	0.1	0.1	0.0	0.0	0.2	1.5	1.4	0.1	0.1	0.1	0.0	0.5	0.0	0.0	0.5		
4-7	2 Person ATV	1	8	9	0.4	0.5	0.3	30.9	0.0	0.0	0.0	0.0	0.0	0.5	0.3	30.9	0.0	0.0	0.0	0.5	0.0	0.0	0.5		
4-7	2 Person ATV	1	8	9	0.4	0.5	0.3	30.9	0.0	0.0	0.0	0.0	0.0	0.5	0.3	30.9	0.0	0.0	0.0	0.5	0.0	0.0	0.5		
4-8	Bulldozer/Small Bulldozer	1	2	247	0.4	0.3	3.0	1.1	0.1	0.1	0.0	0.0	0.0	0.3	2.8	1.0	0.1	0.1	0.0	0.2	0.0	0.0	0.2		

Labor Calculations

2019

2020

Code	Single Trips/day	Miles/day	Pounds per day								Metric tons per year				Pounds per day								Metric tons per year			
			ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e
1-1	6	119	0.0	0.0	0.3	0.0	0.0	0.2	0.1	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.3	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0
1-2	10	198	0.0	0.0	0.5	0.0	0.0	0.4	0.1	0.0	0.2	0.0	0.0	0.2	0.0	0.0	0.4	0.0	0.0	0.4	0.1	0.0	0.0	0.0	0.0	0.0
1-3	8	158	0.0	0.0	0.4	0.0	0.0	0.3	0.1	0.0	1.3	0.0	0.0	1.4	0.0	0.0	0.3	0.0	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0
1-4	12	238	0.0	0.0	0.6	0.0	0.0	0.4	0.1	0.0	1.8	0.0	0.0	1.8	0.0	0.0	0.5	0.0	0.0	0.4	0.1	0.0	0.0	0.0	0.0	0.0
1-5	12	238	0.0	0.0	0.6	0.0	0.0	0.4	0.1	0.0	0.7	0.0	0.0	0.7	0.0	0.0	0.5	0.0	0.0	0.4	0.1	0.0	0.0	0.0	0.0	0.0
1-6	12	238	0.0	0.0	0.6	0.0	0.0	0.4	0.1	0.0	2.0	0.0	0.0	2.0	0.0	0.0	0.5	0.0	0.0	0.4	0.1	0.0	0.0	0.0	0.0	0.0
1-7	8	158	0.0	0.0	0.4	0.0	0.0	0.3	0.1	0.0	0.7	0.0	0.0	0.7	0.0	0.0	0.3	0.0	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0
1-8	6	119	0.0	0.0	0.3	0.0	0.0	0.2	0.1	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.3	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0
2-1	6	119	0.0	0.0	0.3	0.0	0.0	0.2	0.1	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.3	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0
2-2	10	198	0.0	0.0	0.5	0.0	0.0	0.4	0.1	0.0	0.5	0.0	0.0	0.5	0.0	0.0	0.4	0.0	0.0	0.4	0.1	0.0	0.0	0.0	0.0	0.0
2-3	8	158	0.0	0.0	0.4	0.0	0.0	0.3	0.1	0.0	1.3	0.0	0.0	1.3	0.0	0.0	0.3	0.0	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0
2-4	12	238	0.0	0.0	0.6	0.0	0.0	0.4	0.1	0.0	2.5	0.0	0.0	2.6	0.0	0.0	0.5	0.0	0.0	0.4	0.1	0.0	0.0	0.0	0.0	0.0
2-5	16	317	0.0	0.1	0.7	0.0	0.0	0.6	0.1	0.0	1.2	0.0	0.0	1.2	0.0	0.1	0.7	0.0	0.0	0.6	0.1	0.0	0.0	0.0	0.0	0.0
2-6	12	238	0.0	0.0	0.6	0.0	0.0	0.4	0.1	0.0	2.9	0.0	0.0	2.9	0.0	0.0	0.5	0.0	0.0	0.4	0.1	0.0	0.0	0.0	0.0	0.0
2-7	8	158	0.0	0.0	0.4	0.0	0.0	0.3	0.1	0.0	2.2	0.0	0.0	2.2	0.0	0.0	0.3	0.0	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0
2-8	6	119	0.0	0.0	0.3	0.0	0.0	0.2	0.1	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.3	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0
3-1	6	119	0.0	0.0	0.3	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.2	0.1	0.0	0.0	0.1	0.0	0.1
3-2	10	198	0.0	0.0	0.5	0.0	0.0	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.4	0.1	0.0	0.0	0.3	0.0	0.3
3-3	8	158	0.0	0.0	0.4	0.0	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.3	0.1	0.0	0.0	1.9	0.0	1.9
3-4	12	238	0.0	0.0	0.6	0.0	0.0	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.4	0.1	0.0	0.0	2.3	0.0	2.3
3-5	12	238	0.0	0.0	0.6	0.0	0.0	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.4	0.1	0.0	0.0	0.6	0.0	0.6
3-6	12	238	0.0	0.0	0.6	0.0	0.0	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.4	0.1	0.0	0.0	0.7	0.0	0.7
3-7	8	158	0.0	0.0	0.4	0.0	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.3	0.1	0.0	0.0	0.3	0.0	0.3
3-8	6	119	0.0	0.0	0.3	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.2	0.1	0.0	0.0	0.1	0.0	0.1
4-1	6	119	0.0	0.0	0.3	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.2	0.1	0.0	0.0	0.1	0.0	0.1
4-2	10	198	0.0	0.0	0.5	0.0	0.0	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.4	0.1	0.0	0.0	0.8	0.0	0.8
4-3	8	158	0.0	0.0	0.4	0.0	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.3	0.1	0.0	0.0	0.7	0.0	0.7
4-4	12	238	0.0	0.0	0.6	0.0	0.0	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.4	0.1	0.0	0.0	3.7	0.0	3.7
4-5	12	238	0.0	0.0	0.6	0.0	0.0	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.4	0.1	0.0	0.0	1.5	0.0	1.6
4-6	16	317	0.0	0.1	0.7	0.0	0.0	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.7	0.0	0.0	0.6	0.1	0.0	0.0	0.6	0.0	0.6
4-7	8	158	0.0	0.0	0.4	0.0	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.3	0.1	0.0	0.0	0.9	0.0	0.9
4-8	6	119	0.0	0.0	0.3	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.2	0.1	0.0	0.0	0.1	0.0	0.1

4-7	2	40	Offsite Delivery	0.0	0.5	0.2	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.2	0.0	0.0	0.1	0.0	0.0	1.3	0.0	0.0	1.4
4-7	2	40	Offsite Delivery	0.0	0.5	0.2	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.2	0.0	0.0	0.1	0.0	0.0	1.3	0.0	0.0	1.4
4-7	2	1	Onsite Water Truck	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1
4-8	2	1	Onsite Truck	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4-8	2	40	Offsite Delivery	0.0	0.8	0.4	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.4	0.0	0.0	0.1	0.0	0.0	0.2	0.0	0.0	0.2	

Earthmoving/Paving Calculations					2019			2020		
Code	Acres/day	Cut/Fill (cy/day)	Dozing hr/day	Paving (sf/day)	Pounds per day			Pounds per day		
					ROG	PM10 D	PM2.5 D	ROG	PM10 D	PM2.5 D
1-2	0.500				0.00	0.2	0.0	0.0	0.2	0.0
1-4	0.020	206.2	2.00		0.00	0.7	0.4	0.0	0.7	0.4
1-5		16.000			0.00	0.0	0.0	0.0	0.0	0.0
1-6		11.250			0.00	0.0	0.0	0.0	0.0	0.0
2-2	0.500				0.00	0.2	0.0	0.0	0.2	0.0
2-4		169.857	2.00		0.00	0.7	0.4	0.0	0.7	0.4
2-5		13.333	0.50		0.00	0.2	0.1	0.0	0.2	0.1
2-6				1300.000	0.04	0.0	0.0	0.0	0.0	0.0
3-2	0.500				0.00	0.2	0.0	0.0	0.2	0.0
3-4	0.100	73.750	2.00		0.00	0.7	0.4	0.0	0.7	0.4
3-5		17.500			0.00	0.0	0.0	0.0	0.0	0.0
3-6		4.500			0.00	0.0	0.0	0.0	0.0	0.0
4-2	0.500				0.00	0.2	0.0	0.0	0.2	0.0
4-4		356.415	2.00		0.00	0.7	0.4	0.0	0.7	0.4
4-5				1250.000	0.03	0.0	0.0	0.0	0.0	0.0
4-6		22.500	0.50		0.00	0.2	0.1	0.0	0.2	0.1

Maintenance Activities

Phase	Code	Start Date (yyyy/m/d)	End Date (yyyy/m/d)	Working Days
Short-term	Short	2021/1/1	2021/12/31	120
Long-term	Long	2023/1/1	2023/12/31	48
In perpetuity	Perp	2033/1/1	2033/12/31	24

Labor Calculations			2021												2023												2033											
			24	25	26	27	28	29	30	31	32	33	34	24	25	26	27	28	29	30	31	32	33	34	24	25	26	27	28	29	30	31	32	33	34			
			13	14	15	16	17	18	19	20	21	22	23	13	14	15	16	17	18	19	20	21	22	23	13	14	15	16	17	18	19	20	21	22	23			
			2	3	4	5	7	6	8	9	10	11	12	2	3	4	5	7	6	8	9	10	11	12	2	3	4	5	7	6	8	9	10	11	12			
Code	Single Trips/day	Miles/day	Pounds per day							Metric tons per year				Pounds per day							Metric tons per year				Pounds per day							Metric tons per year						
			ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e
Short	10	198	0.0	0.0	0.4	0.0	0.0	0.4	0.1	0.0	6.9	0.0	0.0	6.9	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	2.7	0.0	0.0	2.8	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	1.4
Long	10	198																																				
Perp	10	198																																				

Routine & As-Needed Onroad Cal Onsite and O

			2021												2023												2033											
			24	25	26	27	28	29	30	31	32	33	34	24	25	26	27	28	29	30	31	32	33	34	24	25	26	27	28	29	30	31	32	33	34			
			13	14	15	16	17	18	19	20	21	22	23	13	14	15	16	17	18	19	20	21	22	23	13	14	15	16	17	18	19	20	21	22	23			
			2	3	4	5	7	6	8	9	10	11	12	2	3	4	5	7	6	8	9	10	11	12	2	3	4	5	7	6	8	9	10	11	12			
Code	Single Trips/day	Miles/day	Pounds per day								Metric tons per year				Pounds per day								Metric tons per year				Pounds per day								Metric tons per year			
			ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e
Short	2	40	0.0	0.5	0.3	0.0	0.0	0.1	0.0	0.0	9.1	0.0	0.0	9.6	0.0	0.5	0.3	0.0	0.0	0.0	0.0	0.0	3.7	0.0	0.0	3.8	0.0	0.5	0.3	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	1.9
Long	2	40																																				
Perp	2	40																																				

Earthmoving/Paving Calculations	<u>2</u>	<u>3</u>	<u>6</u>	<u>11</u>	<u>12</u>	2023			2033		
	Location	Onsite	2021			2023			2033		
Code	Acres/day	Cut/Fill (cy/day)	Pounds per day			Pounds per day			Pounds per day		
			ROG	PM10 D	PM2.5 D	ROG	PM10 D	PM2.5 D	ROG	PM10 D	PM2.5 D
Short	0.500	500	0.00	0.2	0.0						
Long	0.500	500				0.00	0.2	0.0			
Perp	0.500	0							0.0	0.2	0.0

Pumping	
Pump HP	7.5
Number	2
Hr/year	8760
MWh/yr	98
MT CO2e/yr	23