

Appendix C

Air Quality and Greenhouse Gas Modeling

APPENDIX C

Air Quality and Greenhouse Gas Modeling

1. Model Description and Methodology
2. Air Quality and Greenhouse Gas Inputs and Emissions
3. CalEEMod Model Outputs

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The **California Emissions Estimator Model** (CalEEMod) is a statewide land use emissions computer model designed to provide a uniform platform for government agencies, land use planners, and environmental professionals to quantify potential criteria pollutant and greenhouse gas (GHG) emissions associated with both construction and operations from a variety of land use projects. The model quantifies direct emissions from construction and operation activities (including vehicle use), as well as indirect emissions, such as GHG emissions from energy use, solid waste disposal, vegetation planting and/or removal, and water use. Further, the model identifies mitigation measures to reduce criteria pollutant and GHG emissions along with calculating the benefits achieved from measures chosen by the user.

The most recent version of CalEEMod (version 2016.3.2) was used to estimate construction emissions for the project. Project-specific inputs, as shown in Part 1 of this Appendix, include:

1. Construction schedule, start date and duration of phases (Table 1)
2. Construction equipment, number and daily usage data by phase for well construction only - Trimble and Agnews Wells (Table 2)
3. Construction equipment, number and daily usage data by phase for aboveground pipelines and connections - Agnews Wells (Table 3)
4. Construction equipment, number and daily usage data by phase for aboveground pipelines and connections - Trimble Well (Table 4)
5. Construction worker trips and on-road truck trips (Table 5)

CalEEMod defaults were used where project-specific data was not available such as trip lengths for workers and construction trucks. All default and project-specific assumptions are included in the CalEEMod output file included at the end of this appendix.

The project's criteria pollutant and GHG emissions are summarized in Table 6 (in Part 1 of this Appendix). The table shows estimation of both construction and operational criteria pollutant and GHG emissions. Emissions estimation for the emergency generator proposed at the Agnews site is shown in Table 7.

Part 2 of the Appendix includes the CalEEMod model output.

Table 2. Construction Equipment and Activity by Phase - Agnews & Trimble Well Construction Only

Equipment	Number of Equipment used	Avg Operation (hrs/day)	Number of Work Days in the construction phase equipment is used	Equipment size (hp)	Total Run Time (hours)	Adjusted Hours per day
Phase 1:	Site Preparation					
Air Compressors	1	4	10	50	40	1.8
Skid Steer Loaders	1	4	10	60	40	1.8
Tractors/Loaders/Backhoes	1	8	5	110	40	1.8
Phase 2:	Drilling and Well Installation					
Bore/Drill Rigs	1	24	50	800	1200	9.2
Air Compressors	1	8	60	50	480	3.7
Dumpers/Tenders	1	8	20	50	160	1.2
Generator Sets	1	8	16	50	128	1.0
Pumps	1	8	15	20	120	0.9
Tractors/Loaders/Backhoes	1	8	16	110	128	1.0
Cement and Mortar Mixers	1	8	10	10	80	0.6
Skid Steer Loaders	1	8	60	60	480	3.7
Other Construction Equipment	1	8	10	50	80	0.6
Phase 3:	Development					
Air Compressors	1	12	5	50	60	2.7
Pumps	1	24	5	300	120	5.5
Phase 4:	Testing & Starup					
Air Compressors	1	12	5	50	60	2.6
Pumps	1	24	5	300	120	5.2

Table 3. Construction Equipment and Activity by Phase - Agnews Pipeline & Connections

	Number of Equipment used	Avg Operation (hrs/day)	Number of Work Days in the construction phase equipment is used	Equipment size (hp)	Total Run Time (hours)	Adjusted Hours per day
Phase 1:	Site Preparation					
Air Compressors	1	6	21	50	126	6.0
Concrete/Industrial Saws	1	6	10	6.5	60	2.9
Tractors/Loaders/Backhoes	1	6	21	110	126	6.0
Phase 2:	Construction of Appurtenant Facilities					
Air Compressors	1	8	153	50	1224	8.0
Tractors/Loaders/Backhoes	1	8	153	110	1224	8.0
Cranes	1	8	20	200	160	1.0
Phase 3:	Trenching/Installing Pipelines					
Tractors/Loaders/Backhoes	1	8	153	110	1224	8.0
Air Compressors	1	8	153	50	1224	8.0
Paving Equipment	1	7	5	100	35	0.2
Plate Compactors	2	7	153	5	1071	7.0
Rollers	1	7	5	100	35	0.2
Phase 4:	Testing, startup					
Air Compressors	1	7	5	50	35	1.6

Table 4. Construction Equipment and Activity by Phase - Trimble Pipeline & Connections

Equipment	Number of Equipment used	Avg Operation (hrs/day)	Number of Work Days in the construction phase equipment is used	Equipment size (hp)	Total Run Time (hours)	Adjusted Hours per day
Phase 1:		Site Preparation				
Air Compressors	1	8	5	50	40	1.9
Skid Steer Loaders	1	4	5	60	20	1.0
Tractors/Loaders/Backhoes	1	8	5	110	40	1.9
Other Construction Equipment	1	8	5	50	40	1.9
Phase 2:		Construction of Appurtenant Facilities				
Air Compressors	1	8	10	50	80	0.5
Skid Steer Loaders	1	8	10	60	80	0.5
Tractors/Loaders/Backhoes	1	8	10	110	80	0.5
Other Construction Equipment	1	8	10	50	80	0.5
Phase 3:		Trenching/Installing Pipelines				
Air Compressors	1	8	10	50	80	0.7
Paving Equipment	1	7	1	100	7	0.1
Rollers	1	7	1	100	7	0.1
Skid Steer Loaders	1	4	2	60	8	0.1
Tractors/Loaders/Backhoes	1	8	2	110	16	0.1
Phase 4:		Testing, startup				
Air Compressors	1	4	1	50	4	0.2
Other Construction Equipment	1	4	1	50	4	0.2

Table 5. Construction Vehicle Trips

	Agnews NSJ#6, NSJ#7, NSJ#8					Trimble NSJ#5				
	No. of Workdays	Worker Trips/day	Material Delivery Trips/day	Hauling Trips /day	Hauling Trips/phase	No. of Workdays	Worker Trips/day	Material Delivery trips/day	Hauling Trips /day	Hauling Trips/phase
<i>Below Ground/Well Construction</i>										
Site Preparation	22	8	2	8	176	22	8	2	8	176
Drilling/Installation	130	8	8	14	1820	130	8	8	14	1820
Development	22	8	0	8	176	22	8	0	8	176
Testing, startup	23	8	0	8	184	23	8	0	8	184
<i>Above Ground/Connections to Existing Water System</i>										
Site Preparation	21	12	0	0	0	21	8	2	4	84
Construction of Appurtenant Facilities	153	12	0	0	0	153	8	2	2	306
Trenching/Installing Pipelines	153	12	2	12	1836	109	8	2	4	436
Testing, startup	22	12	0	0	0	22	4	2	2	44

Table 6. Emissions Summaries

UNCONTROLLED CONSTRUCTION EMISSIONS - Criteria Air Pollutants

Year	No. of Construction Wokdays	Tons over Construction Period				Average Pounds per day			
		ROG	NOx	Exhaust PM-10	Exhaust PM-2.5	ROG	NOx	Exhaust PM-10	Exhaust PM-2.5
2021	197	0.26	4.49	0.09	0.08	2.6	45.5	0.9	0.8
2022	213	0.13	1.07	0.04	0.03	1.2	10.1	0.3	0.3
2023	197	0.18	2.40	0.04	0.04	1.8	24.4	0.5	0.4
2024	197	0.17	2.36	0.04	0.04	1.8	24.0	0.4	0.4
TOTAL PROJECT AVERAGE		0.74	10.32	0.21	0.20	1.9	25.7	0.5	0.5

CONSTRUCTION EMISSIONS - GHG as metric tons

Construction Year	CO ₂	CH ₄	N ₂ O	CO ₂ e
2021	772.5	0.0451	0.0	773.7
2022	231.7	0.0327	0.0	232.5
2023	553.8	0.0386	0.0	554.8
2024	551.9	0.0385	0.0	552.9
Project Total	2109.9	0.1549	0.0	2113.8

OPERATIONAL EMISSIONS - Criteria Air Pollutants

Source	Average Pounds per day			
	ROG	NOx	Total PM-10	Total PM-2.5
Emergency Generator	0.02	0.43	0.39	0.02

OPERATIONAL EMISSIONS - GHG (metric tons per year)

Source	CO ₂ e
Emergency Generator Testing Emissions	17.8
Indirect Emissions from Electricity Generation	27.9
Project Total Operational Emissions	45.7

Operational GHG emissions from electricity generation (metric tons per year)

	CO ₂	CH ₄	N ₂ O
Emission Factor ¹ (lb/MWh)	210	0.034	0.004
Project annual energy demand (MWh/year)	290	290	290
Conversion from lbs to metric tons	0.000453592	0.0004536	0.000453592
GHG emissions (metric tons/year)	27.6	0.0045	0.0005
GWP ²	1	25	298
GHG emissions as CO ₂ e (metric tons/year)	27.6	0.1	0.2
Total GHG emissions as CO ₂ e (metric tons/year)	27.9		

NOTES:

1. Source for GHG emission factors: https://www.epa.gov/sites/production/files/2020-01/documents/egrid2018_summary_tables.pdf, http://www.pgecorp.com/corp_responsibility/reports/2019/assets/PGE_CRSR_2019.pdf

2. Source for GWP: <https://www.arb.ca.gov/cc/inventory/background/gwp.htm>

Table 7. Agnews Site Emergency Generator Emissions

Conversion Factors

HP/kW	1.3410	
lb/g	0.0022	
lb/ton	2,000	
Metric ton/ton	0.90719	
PM ₁₀ Fraction of Total PM	0.960	Table A - Updated CEIDARS Table with PM2.5 Fractions, INTERNAL COMBUSTION - DISTILLATE AND DIESEL-ELECTRIC GENERATION
PM _{2.5} Fraction of Total PM	0.937	Table A - Updated CEIDARS Table with PM2.5 Fractions, INTERNAL COMBUSTION - DISTILLATE AND DIESEL-ELECTRIC GENERATION
CO ₂ kg/gal	10.21	Climate Registry, Table 13.1: https://www.theclimateregistry.org/wp-content/uploads/2014/11/2016-Climate-Registry-Default-Emission-Factors.pdf
CH ₄ g/gal	0.58	Climate Registry, Table 13.7: https://www.theclimateregistry.org/wp-content/uploads/2014/11/2016-Climate-Registry-Default-Emission-Factors.pdf
N ₂ O g/gal	0.26	Climate Registry, Table 13.7: https://www.theclimateregistry.org/wp-content/uploads/2014/11/2016-Climate-Registry-Default-Emission-Factors.pdf
GWP CH ₄	25	IPCC AR4, https://ww2.arb.ca.gov/ghg-gwps
GWP N ₂ O	298	IPCC AR4, https://ww2.arb.ca.gov/ghg-gwps
CO ₂ e g/gal	10,302	
CO ₂ g/gal	10,210	
CO ₂ /CO ₂ e	0.9911	

Generator Rating:	500	kW	(Source: Project Description)
		671 HP	(based on conservative engineering assumptions; conversion from kW to hp)
Load Factor:	0.74		(based on CalEEMod Generator Set Load Factor)
Engine Emissions Tier:			(compliance with CARB diesel regulations)
Operating Hours per Unit:	50	hours/year	
	1.00	hours/day - maximum	
	0.14	hours/day - average	

Units	Criteria Pollutants ^{1, 2}					Greenhouse Gases ³	
	VOC	NO _x	CO	PM ₁₀	PM _{2.5}	CO ₂	CO ₂ e
g/kW-hr	—	—	3.50	—	—	—	—
g/HP-hr	0.15	2.85	2.61	0.1440	0.1406	526.17	530.91
lbs/hr	0.16	3.12	2.86	0.16	0.15	778.36	785.37
lbs/day (maximum daily)	0.16	3.12	2.86	0.16	0.15	778.36	785.37
lbs/day (average daily)	0.02	0.43	0.39	0.02	0.02	106.62	107.59
lbs/yr	8.21	155.99	142.85	7.88	7.69	38,918.00	39,268.61
tons/yr	0.00	0.08	0.07	0.004	0.004	19.46	19.63
metric tons/yr	—	—	—	—	—	17.65	17.81

Notes:

- Emission factors for VOC and NO_x: ARB 2011 Final Regulation Order for the ATCM for stationary engines, Table 1, Model year 2008+: <https://www.arb.ca.gov/regact/2010/atcm2010/finalregorder.pdf>; Policy: CARB Emission Factors for CI Diesel Engines – Percent HC in Relation to NMHC + NO_x: <https://www.arb.ca.gov/regact/2010/atcm2010/finalregorder.pdf>
- Emission factors for CO, PM₁₀, and PM_{2.5}: ARB 2011 Final Regulation Order for the ATCM for stationary engines, Table 1, Model year 2008+: <https://www.arb.ca.gov/regact/2010/atcm2010/finalregorder.pdf>
- Emission factor for CO₂: U.S. Environmental Protection Agency, AP-42 Compilation of Air Pollutant Emission Factors, Fifth Edition, Section 3.4, Table 3.4-1. Emissions of GHGs assume 99.11% of the CO₂e emissions occur as CO₂, based on Climate Registry emission factors as referenced above.

tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
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tblTripsAndVMT	HaulingTripNumber	0.00	184.00
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tblTripsAndVMT	HaulingTripNumber	0.00	1,836.00
tblTripsAndVMT	HaulingTripNumber	0.00	306.00
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tblTripsAndVMT	HaulingTripNumber	0.00	176.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,836.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,820.00
tblTripsAndVMT	HaulingTripNumber	0.00	176.00
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tblTripsAndVMT	HaulingTripNumber	0.00	176.00
tblTripsAndVMT	HaulingTripNumber	0.00	176.00
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tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

Year	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
2021	0.2607	4.4851	1.7493	8.53E-03	0.0606	0.0893	0.1499	0.0166	0.0835	0.1001	0	772.5371	772.5371	0.1668	0	776.707
2022	0.1303	1.072	1.0053	2.60E-03	0.0519	0.0353	0.0872	0.0141	0.0336	0.0477	0	231.6794	231.6794	0.0299	0	232.4274
2023	0.1791	2.4044	1.6905	6.18E-03	0.063	0.0448	0.1078	0.0172	0.0426	0.0598	0	553.7908	553.7908	0.1077	0	556.482
2024	0.1738	2.3618	1.6872	6.16E-03	0.063	0.0407	0.1037	0.0172	0.0387	0.0558	0	551.8921	551.8921	0.1072	0	554.5723
Maximum	0.2607	4.4851	1.7493	8.53E-03	0.063	0.0893	0.1499	0.0172	0.0835	0.1001	0	772.5371	772.5371	0.1668	0	776.707

Mitigated Construction

Year	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
2021	0.2607	4.4851	1.7493	8.5300E-03	0.0606	0.0893	0.1499	0.0166	0.0835	0.1001	0.0000	772.5364	772.5364	0.1668	0.0000	776.7064
2022	0.1303	1.0720	1.0053	2.6000E-03	0.0519	0.0353	0.0872	0.0141	0.0336	0.0477	0.0000	231.6793	231.6793	0.0299	0.0000	232.4272
2023	0.1791	2.4044	1.6905	6.1800E-03	0.0630	0.0448	0.1078	0.0172	0.0426	0.0598	0.0000	553.7903	553.7903	0.1077	0.0000	556.4816
2024	0.1738	2.3618	1.6872	6.1600E-03	0.0630	0.0407	0.1037	0.0172	0.0387	0.0558	0.0000	551.8917	551.8917	0.1072	0.0000	554.5718
Maximum	0.2607	4.4851	1.7493	8.5300E-03	0.0630	0.0893	0.1499	0.0172	0.0835	0.1001	0.0000	772.5364	772.5364	0.1668	0.0000	776.7064

Percent Reduction	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	4-1-2021	6-30-2021	2.0962	2.0962
2	7-1-2021	9-30-2021	2.2802	2.2802
3	10-1-2021	12-31-2021	0.3582	0.3582
5	4-1-2022	6-30-2022	0.4720	0.4720
6	7-1-2022	9-30-2022	0.6859	0.6859
7	10-1-2022	12-31-2022	0.0379	0.0379
9	4-1-2023	6-30-2023	1.1139	1.1139
10	7-1-2023	9-30-2023	1.3146	1.3146

11	10-1-2023	12-31-2023	0.1499	0.1499
13	4-1-2024	6-30-2024	1.0976	1.0976
14	7-1-2024	9-30-2024	1.2936	1.2936
		Highest	2.2802	2.2802

2.2 Overall Operational

Unmitigated Operational

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Area	4.4300e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Energy	1.4000e-004	1.2900e-003	1.0900e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	2.1945	2.1945	1.4000e-004	5.0000e-005	2.2123
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.2517	0.0000	0.2517	0.0149	0.0000	0.6236
Water						0.0000	0.0000		0.0000	0.0000	0.0734	0.1192	0.1926	7.5500e-003	1.8000e-004	0.4354
Total	4.5700e-003	1.2900e-003	1.1000e-003	1.0000e-005	0.0000	1.0000e-004	1.0000e-004	0.0000	1.0000e-004	1.0000e-004	0.3251	2.3138	2.6388	0.0226	2.3000e-004	3.2713

Mitigated Operational

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Area	4.4300e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Energy	1.4000e-004	1.2900e-003	1.0900e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	2.1945	2.1945	1.4000e-004	5.0000e-005	2.2123
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.2517	0.0000	0.2517	0.0149	0.0000	0.6236
Water						0.0000	0.0000		0.0000	0.0000	0.0734	0.1192	0.1926	7.5500e-003	1.8000e-004	0.4354
Total	4.5700e-003	1.2900e-003	1.1000e-003	1.0000e-005	0.0000	1.0000e-004	1.0000e-004	0.0000	1.0000e-004	1.0000e-004	0.3251	2.3138	2.6388	0.0226	2.3000e-004	3.2713

Percent Reduction	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	A1 - Site Preparation - Agnews NSJ#6 Well Construction	Site Preparation	4/1/2021	4/22/2021	7	22	
2	D1 - Site Preparation - Trimble NSJ#5 Well Construction	Site Preparation	4/1/2021	4/22/2021	7	22	
3	Demolition	Demolition	4/1/2021	3/31/2021	5	0	
4	A2 - Drilling & Installation - Agnews NSJ#6 Well Construction	Building Construction	5/1/2021	9/7/2021	7	130	
5	D2 - Drilling & Installation - Trimble NSJ#5 Well Construction	Building Construction	5/1/2021	9/7/2021	7	130	
6	Grading	Grading	5/1/2021	4/30/2021	5	0	
7	A3 - Development - Agnews NSJ#6 Well Construction	Paving	11/1/2021	11/22/2021	7	22	
8	D3 - Development - Trimble NSJ#5 Well Construction	Architectural Coating	11/1/2021	11/22/2021	7	22	
9	A4 - Testing, Startup - Agnews NSJ#6 Well Construction	Architectural Coating	12/1/2021	12/23/2021	7	23	
10	D4 - Testing, Startup - Trimble NSJ#5 Well Construction	Architectural Coating	12/1/2021	12/23/2021	7	23	
11	A5 - Site Preparation - Agnews NSJ#6 Pipelines	Site Preparation	4/1/2022	4/21/2022	7	21	
12	D5 - Site Preparation - Trimble NSJ#5 Pipelines	Site Preparation	4/1/2022	4/21/2022	7	21	
13	A6 - Construction of Appurtenant Facilities - Agnews NSJ#6 Pipelines	Building Construction	5/1/2022	9/30/2022	7	153	
14	A7 - Trenching/Installing Pipelines - Agnews NSJ#6 Pipelines	Trenching	5/1/2022	9/30/2022	7	153	
15	D6 - Construction of Appurtenant Facilities - Trimble NSJ#5 Pipelines	Building Construction	5/1/2022	9/30/2022	7	153	
16	D7 - Trenching/Installing Pipelines - Trimble NSJ#5 Pipelines	Trenching	7/1/2022	10/17/2022	7	109	

17	A8 - Testing/Startup - Agnews NSJ#6 Pipelines	Architectural Coating	12/1/2022	12/22/2022	7	22
18	D8 - Testing/Startup - Trimble NSJ#5 Pipelines	Architectural Coating	12/1/2022	12/22/2022	7	22
19	B1 - Site Preparation - Agnews NSJ#7 Well Construction	Site Preparation	4/1/2023	4/22/2023	7	22
20	B5 - Site Preparation - Agnews NSJ#7 Pipelines	Site Preparation	4/1/2023	4/21/2023	7	21
21	B2 - Drilling & Installation - Agnews NSJ#7 Well Construction	Building Construction	5/1/2023	9/7/2023	7	130
22	B6 - Construction of Appurtenant Facilities - Agnews NSJ#7 Pipelines	Building Construction	5/1/2023	9/30/2023	7	153
23	B7 - Trenching/Installing Pipelines - Agnews NSJ#7 Pipelines	Trenching	5/1/2023	9/30/2023	7	153
24	B3 - Development - Agnews NSJ#7 Well Construction	Architectural Coating	11/1/2023	11/22/2023	7	22
25	B4 - Testing, Startup - Agnews NSJ#7 Well Construction	Architectural Coating	12/1/2023	12/23/2023	7	23
26	B8 - Testing/Startup - Agnews NSJ#7 Pipelines	Architectural Coating	12/1/2023	12/22/2023	7	22
27	C1 - Site Preparation - Agnews NSJ#8 Well Construction	Site Preparation	4/1/2024	4/22/2024	7	22
28	C5 - Site Preparation - Agnews NSJ#8 Pipelines	Site Preparation	4/1/2024	4/21/2024	7	21
29	C2 - Drilling & Installation - Agnews NSJ#8 Well Construction	Building Construction	5/1/2024	9/7/2024	7	130
30	C6 - Construction of Appurtenant Facilities - Agnews NSJ#8 Pipelines	Building Construction	5/1/2024	9/30/2024	7	153
31	C7 - Trenching/Installing Pipelines - Agnews NSJ#8 Pipelines	Trenching	5/1/2024	9/30/2024	7	153
32	C3 - Development - Agnews NSJ#8 Well Construction	Architectural Coating	11/1/2024	11/22/2024	7	22
33	C4 - Testing, Startup - Agnews NSJ#8 Well Construction	Architectural Coating	12/1/2024	12/23/2024	7	23
34	C8 - Testing/Startup - Agnews NSJ#8 Pipelines	Architectural Coating	12/1/2024	12/22/2024	7	22

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,500; Non-Residential Outdoor: 500; Striped Parking Area: 0 (Architectural

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
A1 - Site Preparation - Agnews NSJ#6 Well Construction	Graders	0	0.00	187	0.41
A1 - Site Preparation - Agnews NSJ#6 Well Construction	Rubber Tired Dozers	0	0.00	247	0.40
A1 - Site Preparation - Agnews NSJ#6 Well Construction	Tractors/Loaders/Backhoes	1	1.80	110	0.37
A1 - Site Preparation - Agnews NSJ#6 Well Construction	Air Compressors	1	1.80	50	0.48
A1 - Site Preparation - Agnews NSJ#6 Well Construction	Skid Steer Loaders	1	1.80	60	0.37
A2 - Drilling & Installation - Agnews NSJ#6 Well Construction	Air Compressors	1	3.70	50	0.48
A2 - Drilling & Installation - Agnews NSJ#6 Well Construction	Dumpers/Tenders	1	1.20	50	0.38
A2 - Drilling & Installation - Agnews NSJ#6 Well Construction	Graders	0	0.00	187	0.41
A2 - Drilling & Installation - Agnews NSJ#6 Well Construction	Cement and Mortar Mixers	0	0.00	10	0.56
A2 - Drilling & Installation - Agnews NSJ#6 Well Construction	Rubber Tired Dozers	0	0.00	247	0.40
A2 - Drilling & Installation - Agnews NSJ#6 Well Construction	Tractors/Loaders/Backhoes	0	0.00	97	0.37
A2 - Drilling & Installation - Agnews NSJ#6 Well Construction	Bore/Drill Rigs	1	9.20	800	0.50
A2 - Drilling & Installation - Agnews NSJ#6 Well Construction	Cranes	0	0.00	231	0.29
A2 - Drilling & Installation - Agnews NSJ#6 Well Construction	Forklifts	0	0.00	89	0.20
A2 - Drilling & Installation - Agnews NSJ#6 Well Construction	Generator Sets	1	1.00	50	0.74
A2 - Drilling & Installation - Agnews NSJ#6 Well Construction	Pumps	1	0.90	20	0.74
A2 - Drilling & Installation - Agnews NSJ#6 Well Construction	Tractors/Loaders/Backhoes	1	1.00	110	0.37
A2 - Drilling & Installation - Agnews NSJ#6 Well Construction	Welders	0	0.00	46	0.45
A3 - Development - Agnews NSJ#6 Well Construction	Air Compressors	0	2.70	50	0.48
B1 - Site Preparation - Agnews NSJ#7 Well Construction	Air Compressors	1	1.80	50	0.48
A3 - Development - Agnews NSJ#6 Well Construction	Cement and Mortar Mixers	0	0.00	9	0.56
B1 - Site Preparation - Agnews NSJ#7 Well Construction	Skid Steer Loaders	1	1.80	60	0.37
A3 - Development - Agnews NSJ#6 Well Construction	Pavers	0	0.00	130	0.42

A3 - Development - Agnews NSJ#6 Well Construction	Paving Equipment	0	0.00	132	0.36
A3 - Development - Agnews NSJ#6 Well Construction	Pumps	1	5.50	300	0.74
A3 - Development - Agnews NSJ#6 Well Construction	Rollers	0	0.00	80	0.38
A3 - Development - Agnews NSJ#6 Well Construction	Tractors/Loaders/Backhoes	0	0.00	97	0.37
A4 - Testing, Startup - Agnews NSJ#6 Well Construction	Air Compressors	1	2.60	50	0.48
A4 - Testing, Startup - Agnews NSJ#6 Well Construction	Pumps	1	5.20	300	0.74
A5 - Site Preparation - Agnews NSJ#6 Pipelines	Air Compressors	1	6.00	50	0.48
A5 - Site Preparation - Agnews NSJ#6 Pipelines	Concrete/Industrial Saws	1	2.90	7	0.73
A5 - Site Preparation - Agnews NSJ#6 Pipelines	Graders	0	0.00	187	0.41
A5 - Site Preparation - Agnews NSJ#6 Pipelines	Rubber Tired Dozers	0	0.00	247	0.40
A5 - Site Preparation - Agnews NSJ#6 Pipelines	Tractors/Loaders/Backhoes	1	6.00	110	0.37
A6 - Construction of Appurtenant Facilities - Agnews NSJ#6 Pipelines	Air Compressors	1	8.00	50	0.48
A6 - Construction of Appurtenant Facilities - Agnews NSJ#6 Pipelines	Cranes	1	1.00	200	0.29
A6 - Construction of Appurtenant Facilities - Agnews NSJ#6 Pipelines	Forklifts	0	0.00	89	0.20
A6 - Construction of Appurtenant Facilities - Agnews NSJ#6 Pipelines	Generator Sets	0	0.00	84	0.74
A6 - Construction of Appurtenant Facilities - Agnews NSJ#6 Pipelines	Tractors/Loaders/Backhoes	1	8.00	110	0.37
A6 - Construction of Appurtenant Facilities - Agnews NSJ#6 Pipelines	Welders	0	0.00	46	0.45
A7 - Trenching/Installing Pipelines - Agnews NSJ#6 Pipelines	Air Compressors	1	8.00	50	0.48
A7 - Trenching/Installing Pipelines - Agnews NSJ#6 Pipelines	Paving Equipment	1	0.20	100	0.36
A7 - Trenching/Installing Pipelines - Agnews NSJ#6 Pipelines	Plate Compactors	2	7.00	5	0.43
A7 - Trenching/Installing Pipelines - Agnews NSJ#6 Pipelines	Rollers	1	0.20	100	0.38
A7 - Trenching/Installing Pipelines - Agnews NSJ#6 Pipelines	Tractors/Loaders/Backhoes	1	8.00	110	0.37
A8 - Testing/Startup - Agnews NSJ#6 Pipelines	Air Compressors	1	1.60	50	0.48
B1 - Site Preparation - Agnews NSJ#7 Well Construction	Graders	0	0.00	187	0.41
B1 - Site Preparation - Agnews NSJ#7 Well Construction	Rubber Tired Dozers	0	0.00	247	0.40
B1 - Site Preparation - Agnews NSJ#7 Well Construction	Tractors/Loaders/Backhoes	1	1.80	110	0.37
A2 - Drilling & Installation - Agnews NSJ#6 Well Construction	Skid Steer Loaders	1	3.70	60	0.37
A2 - Drilling & Installation - Agnews NSJ#6 Well Construction	Other Construction Equipment	1	0.60	50	0.42
B2 - Drilling & Installation - Agnews NSJ#7 Well Construction	Air Compressors	1	3.70	50	0.48
B2 - Drilling & Installation - Agnews NSJ#7 Well Construction	Dumpers/Tenders	1	1.20	50	0.38
B2 - Drilling & Installation - Agnews NSJ#7 Well Construction	Bore/Drill Rigs	1	9.20	800	0.50
B2 - Drilling & Installation - Agnews NSJ#7 Well Construction	Cranes	0	0.00	231	0.29
B2 - Drilling & Installation - Agnews NSJ#7 Well Construction	Forklifts	0	0.00	89	0.20
B2 - Drilling & Installation - Agnews NSJ#7 Well Construction	Generator Sets	1	1.00	50	0.74
B2 - Drilling & Installation - Agnews NSJ#7 Well Construction	Pumps	1	0.90	20	0.74
B2 - Drilling & Installation - Agnews NSJ#7 Well Construction	Tractors/Loaders/Backhoes	1	1.00	110	0.37
B2 - Drilling & Installation - Agnews NSJ#7 Well Construction	Welders	0	0.00	46	0.45
B3 - Development - Agnews NSJ#7 Well Construction	Air Compressors	1	2.70	50	0.48
C1 - Site Preparation - Agnews NSJ#8 Well Construction	Air Compressors	1	1.80	50	0.48
C1 - Site Preparation - Agnews NSJ#8 Well Construction	Skid Steer Loaders	1	1.80	60	0.37
B3 - Development - Agnews NSJ#7 Well Construction	Pumps	1	5.50	300	0.74
B4 - Testing, Startup - Agnews NSJ#7 Well Construction	Air Compressors	1	2.60	50	0.48
B4 - Testing, Startup - Agnews NSJ#7 Well Construction	Pumps	1	5.20	300	0.74
B5 - Site Preparation - Agnews NSJ#7 Pipelines	Air Compressors	1	6.00	50	0.48
B5 - Site Preparation - Agnews NSJ#7 Pipelines	Concrete/Industrial Saws	1	2.90	7	0.73
B5 - Site Preparation - Agnews NSJ#7 Pipelines	Graders	0	0.00	187	0.41
B5 - Site Preparation - Agnews NSJ#7 Pipelines	Rubber Tired Dozers	0	0.00	247	0.40

B5 - Site Preparation - Agnews NSJ#7 Pipelines	Tractors/Loaders/Backhoes	1	6.00	110	0.37
B2 - Drilling & Installation - Agnews NSJ#7 Well Construction	Cement and Mortar Mixers	1	0.60	10	0.56
B6 - Construction of Appurtenant Facilities - Agnews NSJ#7 Pipelines	Air Compressors	1	8.00	50	0.48
B6 - Construction of Appurtenant Facilities - Agnews NSJ#7 Pipelines	Cranes	1	1.00	200	0.28
B6 - Construction of Appurtenant Facilities - Agnews NSJ#7 Pipelines	Forklifts	0	0.00	89	0.20
B6 - Construction of Appurtenant Facilities - Agnews NSJ#7 Pipelines	Generator Sets	0	0.00	84	0.74
B6 - Construction of Appurtenant Facilities - Agnews NSJ#7 Pipelines	Tractors/Loaders/Backhoes	1	8.00	110	0.37
B6 - Construction of Appurtenant Facilities - Agnews NSJ#7 Pipelines	Welders	0	0.00	46	0.45
B7 - Trenching/Installing Pipelines - Agnews NSJ#7 Pipelines	Air Compressors	1	8.00	50	0.48
B7 - Trenching/Installing Pipelines - Agnews NSJ#7 Pipelines	Paving Equipment	1	0.20	100	0.36
B7 - Trenching/Installing Pipelines - Agnews NSJ#7 Pipelines	Plate Compactors	2	7.00	5	0.43
B7 - Trenching/Installing Pipelines - Agnews NSJ#7 Pipelines	Rollers	1	0.20	100	0.38
B7 - Trenching/Installing Pipelines - Agnews NSJ#7 Pipelines	Tractors/Loaders/Backhoes	1	8.00	110	0.37
B8 - Testing/Startup - Agnews NSJ#7 Pipelines	Air Compressors	1	1.60	50	0.48
C1 - Site Preparation - Agnews NSJ#8 Well Construction	Graders	0	0.00	187	0.41
C1 - Site Preparation - Agnews NSJ#8 Well Construction	Rubber Tired Dozers	0	0.00	247	0.40
C1 - Site Preparation - Agnews NSJ#8 Well Construction	Tractors/Loaders/Backhoes	1	1.80	110	0.37
B2 - Drilling & Installation - Agnews NSJ#7 Well Construction	Skid Steer Loaders	1	3.70	60	0.37
B2 - Drilling & Installation - Agnews NSJ#7 Well Construction	Other Construction Equipment	1	0.60	50	0.42
C2 - Drilling & Installation - Agnews NSJ#8 Well Construction	Air Compressors	1	3.70	50	0.48
C2 - Drilling & Installation - Agnews NSJ#8 Well Construction	Dumpers/Tenders	1	1.20	50	0.38
C2 - Drilling & Installation - Agnews NSJ#8 Well Construction	Bore/Drill Rigs	1	9.20	800	0.50
C2 - Drilling & Installation - Agnews NSJ#8 Well Construction	Cranes	0	0.00	231	0.29
C2 - Drilling & Installation - Agnews NSJ#8 Well Construction	Forklifts	0	0.00	89	0.20
C2 - Drilling & Installation - Agnews NSJ#8 Well Construction	Generator Sets	1	1.00	50	0.74
C2 - Drilling & Installation - Agnews NSJ#8 Well Construction	Pumps	1	0.90	20	0.74
C2 - Drilling & Installation - Agnews NSJ#8 Well Construction	Tractors/Loaders/Backhoes	1	1.00	110	0.37
C2 - Drilling & Installation - Agnews NSJ#8 Well Construction	Welders	0	0.00	46	0.45
C3 - Development - Agnews NSJ#8 Well Construction	Air Compressors	1	2.70	50	0.48
D2 - Drilling & Installation - Trimble NSJ#5 Well Construction	Dumpers/Tenders	1	1.20	50	0.38
D2 - Drilling & Installation - Trimble NSJ#5 Well Construction	Pumps	1	0.90	20	0.74
C3 - Development - Agnews NSJ#8 Well Construction	Pumps	1	5.50	300	0.74
C4 - Testing, Startup - Agnews NSJ#8 Well Construction	Air Compressors	1	2.60	50	0.48
C4 - Testing, Startup - Agnews NSJ#8 Well Construction	Pumps	1	5.20	300	0.74
C5 - Site Preparation - Agnews NSJ#8 Pipelines	Air Compressors	1	6.00	50	0.48
C5 - Site Preparation - Agnews NSJ#8 Pipelines	Concrete/Industrial Saws	1	2.90	7	0.73
C5 - Site Preparation - Agnews NSJ#8 Pipelines	Graders	0	0.00	187	0.41
C5 - Site Preparation - Agnews NSJ#8 Pipelines	Rubber Tired Dozers	0	0.00	247	0.40
C5 - Site Preparation - Agnews NSJ#8 Pipelines	Tractors/Loaders/Backhoes	1	6.00	110	0.37
C6 - Construction of Appurtenant Facilities - Agnews NSJ#8 Pipelines	Air Compressors	1	8.00	50	0.48
C6 - Construction of Appurtenant Facilities - Agnews NSJ#8 Pipelines	Cranes	1	1.00	200	0.28
C6 - Construction of Appurtenant Facilities - Agnews NSJ#8 Pipelines	Forklifts	0	0.00	89	0.20
C6 - Construction of Appurtenant Facilities - Agnews NSJ#8 Pipelines	Generator Sets	0	0.00	84	0.74
C6 - Construction of Appurtenant Facilities - Agnews NSJ#8 Pipelines	Tractors/Loaders/Backhoes	1	8.00	110	0.37
C6 - Construction of Appurtenant Facilities - Agnews NSJ#8 Pipelines	Welders	0	0.00	46	0.45
C7 - Trenching/Installing Pipelines - Agnews NSJ#8 Pipelines	Air Compressors	1	8.00	50	0.48
C7 - Trenching/Installing Pipelines - Agnews NSJ#8 Pipelines	Paving Equipment	1	0.20	100	0.36

C7 - Trenching/Installing Pipelines - Agnews NSJ#8 Pipelines	Plate Compactors	2	7.00	5	0.43
C7 - Trenching/Installing Pipelines - Agnews NSJ#8 Pipelines	Rollers	1	0.20	100	0.38
C7 - Trenching/Installing Pipelines - Agnews NSJ#8 Pipelines	Tractors/Loaders/Backhoes	1	8.00	110	0.37
C8 - Testing/Startup - Agnews NSJ#8 Pipelines	Air Compressors	1	1.60	50	0.48
D1 - Site Preparation - Trimble NSJ#5 Well Construction	Air Compressors	1	1.80	50	0.48
D1 - Site Preparation - Trimble NSJ#5 Well Construction	Graders	0	0.00	187	0.41
D1 - Site Preparation - Trimble NSJ#5 Well Construction	Rubber Tired Dozers	0	0.00	247	0.40
D1 - Site Preparation - Trimble NSJ#5 Well Construction	Skid Steer Loaders	1	1.80	60	0.37
D1 - Site Preparation - Trimble NSJ#5 Well Construction	Tractors/Loaders/Backhoes	1	1.80	110	0.37
C2 - Drilling & Installation - Agnews NSJ#8 Well Construction	Cement and Mortar Mixers	1	0.60	10	0.56
C2 - Drilling & Installation - Agnews NSJ#8 Well Construction	Skid Steer Loaders	1	3.70	60	0.37
C2 - Drilling & Installation - Agnews NSJ#8 Well Construction	Other Construction Equipment	1	0.60	50	0.42
D2 - Drilling & Installation - Trimble NSJ#5 Well Construction	Air Compressors	1	3.70	50	0.48
D2 - Drilling & Installation - Trimble NSJ#5 Well Construction	Bore/Drill Rigs	1	9.20	800	0.50
D2 - Drilling & Installation - Trimble NSJ#5 Well Construction	Cement and Mortar Mixers	0	0.60	10	0.56
D2 - Drilling & Installation - Trimble NSJ#5 Well Construction	Cranes	0	0.00	231	0.29
D2 - Drilling & Installation - Trimble NSJ#5 Well Construction	Forklifts	0	0.00	89	0.20
D2 - Drilling & Installation - Trimble NSJ#5 Well Construction	Generator Sets	1	1.00	50	0.74
D2 - Drilling & Installation - Trimble NSJ#5 Well Construction	Other Construction Equipment	1	0.60	50	0.42
D2 - Drilling & Installation - Trimble NSJ#5 Well Construction	Skid Steer Loaders	1	3.70	60	0.37
D2 - Drilling & Installation - Trimble NSJ#5 Well Construction	Tractors/Loaders/Backhoes	1	1.00	110	0.37
D2 - Drilling & Installation - Trimble NSJ#5 Well Construction	Welders	0	0.00	46	0.45
D3 - Development - Trimble NSJ#5 Well Construction	Air Compressors	1	2.70	50	0.48
D3 - Development - Trimble NSJ#5 Well Construction	Pumps	1	5.50	300	0.74
D4 - Testing, Startup - Trimble NSJ#5 Well Construction	Air Compressors	1	2.60	50	0.48
D4 - Testing, Startup - Trimble NSJ#5 Well Construction	Pumps	1	5.20	300	0.74
D5 - Site Preparation - Trimble NSJ#5 Pipelines	Air Compressors	1	1.90	50	0.48
D5 - Site Preparation - Trimble NSJ#5 Pipelines	Graders	0	0.00	187	0.41
D5 - Site Preparation - Trimble NSJ#5 Pipelines	Other Construction Equipment	1	1.90	50	0.42
D5 - Site Preparation - Trimble NSJ#5 Pipelines	Rubber Tired Dozers	0	0.00	247	0.40
D5 - Site Preparation - Trimble NSJ#5 Pipelines	Skid Steer Loaders	1	1.00	60	0.37
D5 - Site Preparation - Trimble NSJ#5 Pipelines	Tractors/Loaders/Backhoes	1	1.90	110	0.37
D6 - Construction of Appurtenant Facilities - Trimble NSJ#5 Pipelines	Air Compressors	1	0.50	50	0.48
D6 - Construction of Appurtenant Facilities - Trimble NSJ#5 Pipelines	Cranes	0	0.00	231	0.29
D6 - Construction of Appurtenant Facilities - Trimble NSJ#5 Pipelines	Forklifts	0	0.00	89	0.20
D6 - Construction of Appurtenant Facilities - Trimble NSJ#5 Pipelines	Generator Sets	0	0.00	84	0.74
D6 - Construction of Appurtenant Facilities - Trimble NSJ#5 Pipelines	Other Construction Equipment	1	0.50	50	0.42
D6 - Construction of Appurtenant Facilities - Trimble NSJ#5 Pipelines	Skid Steer Loaders	1	0.50	60	0.37
D6 - Construction of Appurtenant Facilities - Trimble NSJ#5 Pipelines	Tractors/Loaders/Backhoes	1	0.50	110	0.37
D6 - Construction of Appurtenant Facilities - Trimble NSJ#5 Pipelines	Welders	0	0.00	46	0.45
D7 - Trenching/Installing Pipelines - Trimble NSJ#5 Pipelines	Air Compressors	1	0.70	50	0.48
D7 - Trenching/Installing Pipelines - Trimble NSJ#5 Pipelines	Paving Equipment	1	0.10	100	0.36
D7 - Trenching/Installing Pipelines - Trimble NSJ#5 Pipelines	Rollers	1	0.10	100	0.38
D7 - Trenching/Installing Pipelines - Trimble NSJ#5 Pipelines	Skid Steer Loaders	1	0.10	60	0.37
D7 - Trenching/Installing Pipelines - Trimble NSJ#5 Pipelines	Tractors/Loaders/Backhoes	1	0.10	110	0.37
D8 - Testing/Startup - Trimble NSJ#5 Pipelines	Air Compressors	1	0.20	50	0.48
D8 - Testing/Startup - Trimble NSJ#5 Pipelines	Other Construction Equipment	1	0.20	50	0.42

Off-Road	1.6300e-003	0.0120	0.0148	2.0000e-005		6.3000e-004	6.3000e-004		6.0000e-004	6.0000e-004	0.0000	1.7195	1.7195	4.6000e-004	0.0000	1.7309
Total	1.6300e-003	0.0120	0.0148	2.0000e-005	0.0000	6.3000e-004	6.3000e-004	0.0000	6.0000e-004	6.0000e-004	0.0000	1.7195	1.7195	4.6000e-004	0.0000	1.7309

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.9000e-004	0.0235	5.1300e-003	7.0000e-005	1.4900e-003	7.0000e-005	1.5700e-003	4.1000e-004	7.0000e-005	4.8000e-004	0.0000	6.6267	6.6267	3.0000e-004	0.0000	6.6342
Vendor	7.0000e-005	2.2800e-003	6.0000e-004	1.0000e-005	1.4000e-004	1.0000e-005	1.5000e-004	4.0000e-005	0.0000	5.0000e-005	0.0000	0.5699	0.5699	2.0000e-005	0.0000	0.5705
Worker	2.7000e-004	1.9000e-004	2.0100e-003	1.0000e-005	7.0000e-004	0.0000	7.0000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5778	0.5778	1.0000e-005	0.0000	0.5781
Total	1.0300e-003	0.0260	7.7400e-003	9.0000e-005	2.3300e-003	8.0000e-005	2.4200e-003	6.4000e-004	7.0000e-005	7.2000e-004	0.0000	7.7743	7.7743	3.3000e-004	0.0000	7.7828

3.3 D1 - Site Preparation - Trimble NSJ#5 Well Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6300e-003	0.0120	0.0148	2.0000e-005		6.3000e-004	6.3000e-004		6.0000e-004	6.0000e-004	0.0000	1.7212	1.7212	4.6000e-004	0.0000	1.7326
Total	1.6300e-003	0.0120	0.0148	2.0000e-005	0.0000	6.3000e-004	6.3000e-004	0.0000	6.0000e-004	6.0000e-004	0.0000	1.7212	1.7212	4.6000e-004	0.0000	1.7326

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.9000e-004	0.0235	5.1300e-003	7.0000e-005	1.4900e-003	7.0000e-005	1.5700e-003	4.1000e-004	7.0000e-005	4.8000e-004	0.0000	6.6267	6.6267	3.0000e-004	0.0000	6.6342
Vendor	7.0000e-005	2.2800e-003	6.0000e-004	1.0000e-005	1.4000e-004	1.0000e-005	1.5000e-004	4.0000e-005	0.0000	5.0000e-005	0.0000	0.5699	0.5699	2.0000e-005	0.0000	0.5705
Worker	2.7000e-004	1.9000e-004	2.0100e-003	1.0000e-005	7.0000e-004	0.0000	7.0000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5778	0.5778	1.0000e-005	0.0000	0.5781
Total	1.0300e-003	0.0260	7.7400e-003	9.0000e-005	2.3300e-003	8.0000e-005	2.4200e-003	6.4000e-004	7.0000e-005	7.2000e-004	0.0000	7.7743	7.7743	3.3000e-004	0.0000	7.7828

3.4 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.5 A2 - Drilling & Installation - Agnews NSJ#6 Well Construction - 2021

Unmitigated Construction On-Site

3.8 A3 - Development - Agnews NSJ#6 Well Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.9900e-003	0.0535	0.0377	1.6000e-004		1.8100e-003	1.8100e-003	1.8100e-003	1.8100e-003	1.8100e-003	0.0000	16.0758	16.0758	5.7000e-004	0.0000	16.0901
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	6.9900e-003	0.0535	0.0377	1.6000e-004		1.8100e-003	1.8100e-003		1.8100e-003	1.8100e-003	0.0000	16.0758	16.0758	5.7000e-004	0.0000	16.0901

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.9000e-004	0.0235	5.1300e-003	7.0000e-005	1.4900e-003	7.0000e-005	1.5700e-003	4.1000e-004	7.0000e-005	4.8000e-004	0.0000	6.6267	6.6267	3.0000e-004	0.0000	6.6342
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7000e-004	1.9000e-004	2.0100e-003	1.0000e-005	7.0000e-004	0.0000	7.0000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5778	0.5778	1.0000e-005	0.0000	0.5781
Total	9.6000e-004	0.0237	7.1400e-003	8.0000e-005	2.1900e-003	7.0000e-005	2.2700e-003	6.0000e-004	7.0000e-005	6.7000e-004	0.0000	7.2045	7.2045	3.1000e-004	0.0000	7.2123

3.9 D3 - Development - Trimble NSJ#5 Well Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	5.2100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.9900e-003	0.0535	0.0377	1.6000e-004		1.8100e-003	1.8100e-003	1.8100e-003	1.8100e-003	1.8100e-003	0.0000	16.0758	16.0758	5.7000e-004	0.0000	16.0901
Total	0.0122	0.0535	0.0377	1.6000e-004		1.8100e-003	1.8100e-003		1.8100e-003	1.8100e-003	0.0000	16.0758	16.0758	5.7000e-004	0.0000	16.0901

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.9000e-004	0.0235	5.1300e-003	7.0000e-005	1.4900e-003	7.0000e-005	1.5700e-003	4.1000e-004	7.0000e-005	4.8000e-004	0.0000	6.6267	6.6267	3.0000e-004	0.0000	6.6342
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7000e-004	1.9000e-004	2.0100e-003	1.0000e-005	7.0000e-004	0.0000	7.0000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5778	0.5778	1.0000e-005	0.0000	0.5781
Total	9.6000e-004	0.0237	7.1400e-003	8.0000e-005	2.1900e-003	7.0000e-005	2.2700e-003	6.0000e-004	7.0000e-005	6.7000e-004	0.0000	7.2045	7.2045	3.1000e-004	0.0000	7.2123

3.10 A4 - Testing, Startup - Agnews NSJ#6 Well Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	5.2100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.9300e-003	0.0530	0.0374	1.6000e-004		1.8000e-003	1.8000e-003	1.8000e-003	1.8000e-003	1.8000e-003	0.0000	15.9046	15.9046	5.7000e-004	0.0000	15.9188
Total	0.0121	0.0530	0.0374	1.6000e-004		1.8000e-003	1.8000e-003		1.8000e-003	1.8000e-003	0.0000	15.9046	15.9046	5.7000e-004	0.0000	15.9188

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Hauling	7.2000e-004	0.0246	5.3600e-003	7.0000e-005	1.5600e-003	8.0000e-005	1.6400e-003	4.3000e-004	7.0000e-005	5.0000e-004	0.0000	6.9279	6.9279	3.1000e-004	0.0000	6.9358
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	2.0000e-004	2.1000e-003	1.0000e-005	7.3000e-004	0.0000	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.6040	0.6040	1.0000e-005	0.0000	0.6044
Total	1.0000e-003	0.0248	7.4600e-003	8.0000e-005	2.2900e-003	8.0000e-005	2.3700e-003	6.2000e-004	7.0000e-005	7.0000e-004	0.0000	7.5319	7.5319	3.2000e-004	0.0000	7.5401

3.11 D4 - Testing, Startup - Trimble NSJ#5 Well Construction - 2021

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Archit. Coating	5.2100e-003						0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.9300e-003	0.0530	0.0374	1.6000e-004		1.8000e-003	1.8000e-003		1.8000e-003	1.8000e-003	0.0000	15.9046	15.9046	5.7000e-004	0.0000	15.9188
Total	0.0121	0.0530	0.0374	1.6000e-004		1.8000e-003	1.8000e-003		1.8000e-003	1.8000e-003	0.0000	15.9046	15.9046	5.7000e-004	0.0000	15.9188

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Hauling	7.2000e-004	0.0246	5.3600e-003	7.0000e-005	1.5600e-003	8.0000e-005	1.6400e-003	4.3000e-004	7.0000e-005	5.0000e-004	0.0000	6.9279	6.9279	3.1000e-004	0.0000	6.9358
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	2.0000e-004	2.1000e-003	1.0000e-005	7.3000e-004	0.0000	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.6040	0.6040	1.0000e-005	0.0000	0.6044
Total	1.0000e-003	0.0248	7.4600e-003	8.0000e-005	2.2900e-003	8.0000e-005	2.3700e-003	6.2000e-004	7.0000e-005	7.0000e-004	0.0000	7.5319	7.5319	3.2000e-004	0.0000	7.5401

3.12 A5 - Site Preparation - Agnews NSJ#6 Pipelines - 2022

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.1800e-003	0.0286	0.0365	5.0000e-005		1.4100e-003	1.4100e-003		1.3500e-003	1.3500e-003	0.0000	4.1590	4.1590	1.0100e-003	0.0000	4.1843
Total	4.1800e-003	0.0286	0.0365	5.0000e-005	0.0000	1.4100e-003	1.4100e-003	0.0000	1.3500e-003	1.3500e-003	0.0000	4.1590	4.1590	1.0100e-003	0.0000	4.1843

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.6000e-004	2.4000e-004	2.6500e-003	1.0000e-005	1.0000e-003	1.0000e-005	1.0100e-003	2.7000e-004	1.0000e-005	2.7000e-004	0.0000	0.7972	0.7972	2.0000e-005	0.0000	0.7976
Total	3.6000e-004	2.4000e-004	2.6500e-003	1.0000e-005	1.0000e-003	1.0000e-005	1.0100e-003	2.7000e-004	1.0000e-005	2.7000e-004	0.0000	0.7972	0.7972	2.0000e-005	0.0000	0.7976

3.13 D5 - Site Preparation - Trimble NSJ#5 Pipelines - 2022

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.2600e-003	0.0146	0.0180	2.0000e-005		8.1000e-004	8.1000e-004		7.6000e-004	7.6000e-004	0.0000	1.9807	1.9807	5.3000e-004	0.0000	1.9940
Total	2.2600e-003	0.0146	0.0180	2.0000e-005	0.0000	8.1000e-004	8.1000e-004	0.0000	7.6000e-004	7.6000e-004	0.0000	1.9807	1.9807	5.3000e-004	0.0000	1.9940

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.1000e-004	0.0103	2.4100e-003	3.0000e-005	7.1000e-004	3.0000e-005	7.4000e-004	2.0000e-004	3.0000e-005	2.2000e-004	0.0000	3.1201	3.1201	1.4000e-004	0.0000	3.1238
Vendor	6.0000e-005	2.0400e-003	5.4000e-004	1.0000e-005	1.4000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.5388	0.5388	2.0000e-005	0.0000	0.5393
Worker	2.4000e-004	1.6000e-004	1.7700e-003	1.0000e-005	6.7000e-004	0.0000	6.7000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.5315	0.5315	1.0000e-005	0.0000	0.5317
Total	6.1000e-004	0.0125	4.7200e-003	5.0000e-005	1.5200e-003	3.0000e-005	1.5500e-003	4.2000e-004	3.0000e-005	4.4000e-004	0.0000	4.1903	4.1903	1.7000e-004	0.0000	4.1947

3.14 A6 - Construction of Appurtenant Facilities - Agnews NSJ#6 Pipelines - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0437	0.3126	0.3704	5.4000e-004		0.0152	0.0152		0.0144	0.0144	0.0000	44.5993	44.5993	0.0112	0.0000	44.8785
Total	0.0437	0.3126	0.3704	5.4000e-004		0.0152	0.0152		0.0144	0.0144	0.0000	44.5993	44.5993	0.0112	0.0000	44.8785

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6400e-003	1.7600e-003	0.0193	6.0000e-005	7.2800e-003	4.0000e-005	7.3300e-003	1.9400e-003	4.0000e-005	1.9800e-003	0.0000	5.8081	5.8081	1.2000e-004	0.0000	5.8112
Total	2.6400e-003	1.7600e-003	0.0193	6.0000e-005	7.2800e-003	4.0000e-005	7.3300e-003	1.9400e-003	4.0000e-005	1.9800e-003	0.0000	5.8081	5.8081	1.2000e-004	0.0000	5.8112

3.15 A7 - Trenching/Installing Pipelines - Agnews NSJ#6 Pipelines - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0414	0.2857	0.3634	5.1000e-004		0.0142	0.0142		0.0135	0.0135	0.0000	41.4747	41.4747	0.0102	0.0000	41.7287
Total	0.0414	0.2857	0.3634	5.1000e-004		0.0142	0.0142		0.0135	0.0135	0.0000	41.4747	41.4747	0.0102	0.0000	41.7287

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.7800e-003	0.2255	0.0526	7.0000e-004	0.0156	6.6000e-004	0.0162	4.2800e-003	6.3000e-004	4.9100e-003	0.0000	68.1965	68.1965	3.0700e-003	0.0000	68.2731
Vendor	4.7000e-004	0.0149	3.9400e-003	4.0000e-005	1.0100e-003	3.0000e-005	1.0400e-003	2.9000e-004	3.0000e-005	3.2000e-004	0.0000	3.9252	3.9252	1.6000e-004	0.0000	3.9294
Worker	2.6400e-003	1.7600e-003	0.0193	6.0000e-005	7.2800e-003	4.0000e-005	7.3300e-003	1.9400e-003	4.0000e-005	1.9800e-003	0.0000	5.8081	5.8081	1.2000e-004	0.0000	5.8112
Total	9.8900e-003	0.2421	0.0758	8.0000e-004	0.0239	7.3000e-004	0.0246	6.5100e-003	7.0000e-004	7.2100e-003	0.0000	77.9298	77.9298	3.3500e-003	0.0000	78.0137

3.16 D6 - Construction of Appurtenant Facilities - Trimble NSJ#5 Pipelines - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.4800e-003	0.0299	0.0374	5.0000e-005		1.6300e-003	1.6300e-003		1.5300e-003	1.5300e-003	0.0000	4.1776	4.1776	1.1500e-003	0.0000	4.2063

Total	4.4800e-003	0.0299	0.0374	5.0000e-005		1.6300e-003	1.6300e-003		1.5300e-003	1.5300e-003	0.0000	4.1776	4.1776	1.1500e-003	0.0000	4.2063
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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.1300e-003	0.0376	8.7600e-003	1.2000e-004	2.5900e-003	1.1000e-004	2.7000e-003	7.1000e-004	1.0000e-004	8.2000e-004	0.0000	11.3661	11.3661	5.1000e-004	0.0000	11.3789
Vendor	4.7000e-004	0.0149	3.9400e-003	4.0000e-005	1.0100e-003	3.0000e-005	1.0400e-003	2.9000e-004	3.0000e-005	3.2000e-004	0.0000	3.9252	3.9252	1.6000e-004	0.0000	3.9294
Worker	1.7600e-003	1.1700e-003	0.0129	4.0000e-005	4.8500e-003	3.0000e-005	4.8900e-003	1.2900e-003	3.0000e-005	1.3200e-003	0.0000	3.8721	3.8721	8.0000e-005	0.0000	3.8741
Total	3.3600e-003	0.0536	0.0256	2.0000e-004	8.4500e-003	1.7000e-004	8.6200e-003	2.2900e-003	1.6000e-004	2.4600e-003	0.0000	19.1634	19.1634	7.5000e-004	0.0000	19.1823

3.17 D7 - Trenching/Installing Pipelines - Trimble NSJ#5 Pipelines - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.0800e-003	0.0129	0.0157	2.0000e-005		6.2000e-004	6.2000e-004		6.0000e-004	6.0000e-004	0.0000	1.7482	1.7482	3.6000e-004	0.0000	1.7573
Total	2.0800e-003	0.0129	0.0157	2.0000e-005		6.2000e-004	6.2000e-004		6.0000e-004	6.0000e-004	0.0000	1.7482	1.7482	3.6000e-004	0.0000	1.7573

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.6100e-003	0.0535	0.0125	1.7000e-004	3.7000e-003	1.6000e-004	3.8500e-003	1.0200e-003	1.5000e-004	1.1700e-003	0.0000	16.1948	16.1948	7.3000e-004	0.0000	16.2130
Vendor	3.3000e-004	0.0106	2.8100e-003	3.0000e-005	7.2000e-004	2.0000e-005	7.4000e-004	2.1000e-004	2.0000e-005	2.3000e-004	0.0000	2.7964	2.7964	1.2000e-004	0.0000	2.7964
Worker	1.2500e-003	8.3000e-004	9.1700e-003	3.0000e-005	3.4600e-003	2.0000e-005	3.4800e-003	9.2000e-004	2.0000e-005	9.4000e-004	0.0000	2.7585	2.7585	6.0000e-005	0.0000	2.7600
Total	3.1900e-003	0.0650	0.0245	2.3000e-004	7.8800e-003	2.0000e-004	8.0700e-003	2.1500e-003	1.9000e-004	2.3400e-003	0.0000	21.7498	21.7498	9.1000e-004	0.0000	21.7724

3.18 A8 - Testing/Startup - Agnews NSJ#6 Pipelines - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	5.2100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.6000e-004	3.8100e-003	4.6200e-003	1.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	0.4801	0.4801	6.0000e-005	0.0000	0.4816
Total	5.9700e-003	3.8100e-003	4.6200e-003	1.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	0.4801	0.4801	6.0000e-005	0.0000	0.4816

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.8000e-004	2.5000e-004	2.7800e-003	1.0000e-005	1.0500e-003	1.0000e-005	1.0500e-003	2.8000e-004	1.0000e-005	2.8000e-004	0.0000	0.8352	0.8352	2.0000e-005	0.0000	0.8356
Total	3.8000e-004	2.5000e-004	2.7800e-003	1.0000e-005	1.0500e-003	1.0000e-005	1.0500e-003	2.8000e-004	1.0000e-005	2.8000e-004	0.0000	0.8352	0.8352	2.0000e-005	0.0000	0.8356

3.19 D8 - Testing/Startup - Trimble NSJ#5 Pipelines - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Archit. Coating	5.2100e-003				0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9000e-004	9.6000e-004	1.1000e-003	0.0000	6.0000e-005	6.0000e-005		5.0000e-005	5.0000e-005		0.0000	0.1089	0.1089	2.0000e-005	0.0000	0.1095
Total	5.4000e-003	9.6000e-004	1.1000e-003	0.0000	6.0000e-005	6.0000e-005		5.0000e-005	5.0000e-005		0.0000	0.1089	0.1089	2.0000e-005	0.0000	0.1095

Unmitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	1.6000e-004	5.4000e-003	1.2600e-003	2.0000e-005	3.7000e-004	2.0000e-005	3.9000e-004	1.0000e-004	2.0000e-005	1.2000e-004	0.0000	1.6343	1.6343	7.0000e-005	0.0000	1.6362
Vendor	7.0000e-005	2.1400e-003	5.7000e-004	1.0000e-005	1.4000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	5.0000e-005	0.0000	0.5644	0.5644	2.0000e-005	0.0000	0.5650
Worker	1.3000e-004	8.0000e-005	9.3000e-004	0.0000	3.5000e-004	0.0000	3.5000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2784	0.2784	1.0000e-005	0.0000	0.2785
Total	3.6000e-004	7.6200e-003	2.7600e-003	3.0000e-005	8.6000e-004	2.0000e-005	8.9000e-004	2.3000e-004	2.0000e-005	2.6000e-004	0.0000	2.4771	2.4771	1.0000e-004	0.0000	2.4797

3.20 B1 - Site Preparation - Agnews NSJ#7 Well Construction - 2023

Unmitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3600e-003	0.0104	0.0146	2.0000e-005		4.4000e-004	4.4000e-004		4.2000e-004	4.2000e-004	0.0000	1.7218	1.7218	4.5000e-004	0.0000	1.7330
Total	1.3600e-003	0.0104	0.0146	2.0000e-005	0.0000	4.4000e-004	4.4000e-004	0.0000	4.2000e-004	4.2000e-004	0.0000	1.7218	1.7218	4.5000e-004	0.0000	1.7330

Unmitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	4.4000e-004	0.0142	4.5800e-003	6.0000e-005	1.4900e-003	3.0000e-005	1.5200e-003	4.1000e-004	2.0000e-005	4.3000e-004	0.0000	6.2855	6.2855	2.8000e-004	0.0000	6.2921
Vendor	5.0000e-005	1.6200e-003	5.1000e-004	1.0000e-005	1.4000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.5484	0.5484	2.0000e-005	0.0000	0.5489
Worker	2.4000e-004	1.5000e-004	1.7000e-003	1.0000e-005	7.0000e-004	0.0000	7.0000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5356	0.5356	1.0000e-005	0.0000	0.5359
Total	7.3000e-004	0.0160	6.7900e-003	8.0000e-005	2.3300e-003	3.0000e-005	2.3700e-003	6.4000e-004	2.0000e-005	6.6000e-004	0.0000	7.3695	7.3695	2.9000e-004	0.0000	7.3769

3.21 B5 - Site Preparation - Agnews NSJ#7 Pipelines - 2023

Unmitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.8600e-003	0.0270	0.0363	5.0000e-005		1.2000e-003	1.2000e-003		1.1400e-003	1.1400e-003	0.0000	4.1618	4.1618	9.9000e-004	0.0000	4.1866
Total	3.8600e-003	0.0270	0.0363	5.0000e-005	0.0000	1.2000e-003	1.2000e-003	0.0000	1.1400e-003	1.1400e-003	0.0000	4.1618	4.1618	9.9000e-004	0.0000	4.1866

Unmitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.4000e-004	2.2000e-004	2.4400e-003	1.0000e-005	1.0000e-003	1.0000e-005	1.0100e-003	2.7000e-004	1.0000e-005	2.7000e-004	0.0000	0.7669	0.7669	2.0000e-005	0.0000	0.7673

Total	3.4000e-004	2.2000e-004	2.4400e-003	1.0000e-005	1.0000e-003	1.0000e-005	1.0100e-003	2.7000e-004	1.0000e-005	2.7000e-004	0.0000	0.7669	0.7669	2.0000e-005	0.0000	0.7673
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3.22 B2 - Drilling & Installation - Agnews NSJ#7 Well Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0465	1.3200	0.6506	2.8100e-003		0.0145	0.0145		0.0136	0.0136	0.0000	244.7457	244.7457	0.0769	0.0000	246.6678
Total	0.0465	1.3200	0.6506	2.8100e-003		0.0145	0.0145		0.0136	0.0136	0.0000	244.7457	244.7457	0.0769	0.0000	246.6678

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.6000e-003	0.1470	0.0474	6.7000e-004	0.0154	2.7000e-004	0.0157	4.2400e-003	2.5000e-004	4.5000e-003	0.0000	64.9977	64.9977	2.7400e-003	0.0000	65.0660
Vendor	1.1900e-003	0.0383	0.0120	1.3000e-004	3.4200e-003	4.0000e-005	3.4700e-003	9.9000e-004	4.0000e-005	1.0300e-003	0.0000	12.9614	12.9614	4.8000e-004	0.0000	12.9733
Worker	1.4000e-003	8.9000e-004	0.0101	3.0000e-005	4.1200e-003	2.0000e-005	4.1500e-003	1.1000e-003	2.0000e-005	1.1200e-003	0.0000	3.1650	3.1650	6.0000e-005	0.0000	3.1666
Total	7.1900e-003	0.1862	0.0695	8.3000e-004	0.0230	3.3000e-004	0.0233	6.3300e-003	3.1000e-004	6.6500e-003	0.0000	81.1241	81.1241	3.2800e-003	0.0000	81.2059

3.23 B6 - Construction of Appurtenant Facilities - Agnews NSJ#7 Pipelines - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0404	0.2935	0.3679	5.4000e-004		0.0130	0.0130		0.0123	0.0123	0.0000	44.6258	44.6258	0.0110	0.0000	44.9008
Total	0.0404	0.2935	0.3679	5.4000e-004		0.0130	0.0130		0.0123	0.0123	0.0000	44.6258	44.6258	0.0110	0.0000	44.9008

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4700e-003	1.5800e-003	0.0178	6.0000e-005	7.2800e-003	4.0000e-005	7.3200e-003	1.9400e-003	4.0000e-005	1.9800e-003	0.0000	5.5875	5.5875	1.1000e-004	0.0000	5.5903
Total	2.4700e-003	1.5800e-003	0.0178	6.0000e-005	7.2800e-003	4.0000e-005	7.3200e-003	1.9400e-003	4.0000e-005	1.9800e-003	0.0000	5.5875	5.5875	1.1000e-004	0.0000	5.5903

3.24 B7 - Trenching/Installing Pipelines - Agnews NSJ#7 Pipelines - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0382	0.2692	0.3614	5.1000e-004		0.0120	0.0120		0.0115	0.0115	0.0000	41.5012	41.5012	9.9900e-003	0.0000	41.7510
Total	0.0382	0.2692	0.3614	5.1000e-004		0.0120	0.0120		0.0115	0.0115	0.0000	41.5012	41.5012	9.9900e-003	0.0000	41.7510

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.6400e-003	0.1483	0.0478	6.8000e-004	0.0156	2.7000e-004	0.0158	4.2800e-003	2.6000e-004	4.5400e-003	0.0000	65.5691	65.5691	2.7600e-003	0.0000	65.6381
Vendor	3.5000e-004	0.0113	3.5400e-003	4.0000e-005	1.0100e-003	1.0000e-005	1.0200e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	3.8136	3.8136	1.4000e-004	0.0000	3.8172

Worker	2.4700e-003	1.5800e-003	0.0178	6.0000e-005	7.2800e-003	4.0000e-005	7.3200e-003	1.9400e-003	4.0000e-005	1.9800e-003	0.0000	5.5875	5.5875	1.1000e-004	0.0000	5.5903
Total	7.4600e-003	0.1611	0.0691	7.8000e-004	0.0239	3.2000e-004	0.0242	6.5100e-003	3.1000e-004	6.8200e-003	0.0000	74.9702	74.9702	3.0100e-003	0.0000	75.0455

3.25 B3 - Development - Agnews NSJ#7 Well Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	5.2100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.2500e-003	0.0431	0.0373	1.6000e-004		1.3700e-003	1.3700e-003		1.3700e-003	1.3700e-003	0.0000	16.0758	16.0758	5.0000e-004	0.0000	16.0883
Total	0.0115	0.0431	0.0373	1.6000e-004		1.3700e-003	1.3700e-003		1.3700e-003	1.3700e-003	0.0000	16.0758	16.0758	5.0000e-004	0.0000	16.0883

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.4000e-004	0.0142	4.5800e-003	6.0000e-005	1.4900e-003	3.0000e-005	1.5200e-003	4.1000e-004	2.0000e-005	4.3000e-004	0.0000	6.2855	6.2855	2.6000e-004	0.0000	6.2921
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4000e-004	1.5000e-004	1.7000e-003	1.0000e-005	7.0000e-004	0.0000	7.0000e-004	1.3000e-004	0.0000	1.9000e-004	0.0000	0.5356	0.5356	1.0000e-005	0.0000	0.5359
Total	6.8000e-004	0.0144	6.2800e-003	7.0000e-005	2.1900e-003	3.0000e-005	2.2200e-003	6.0000e-004	2.0000e-005	6.2000e-004	0.0000	6.8211	6.8211	2.7000e-004	0.0000	6.8280

3.26 B4 - Testing, Startup - Agnews NSJ#7 Well Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	5.2100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.2000e-003	0.0428	0.0370	1.6000e-004		1.3600e-003	1.3600e-003		1.3600e-003	1.3600e-003	0.0000	15.9047	15.9047	4.9000e-004	0.0000	15.9170
Total	0.0114	0.0428	0.0370	1.6000e-004		1.3600e-003	1.3600e-003		1.3600e-003	1.3600e-003	0.0000	15.9047	15.9047	4.9000e-004	0.0000	15.9170

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.6000e-004	0.0149	4.7900e-003	7.0000e-005	1.5600e-003	3.0000e-005	1.5900e-003	4.3000e-004	3.0000e-005	4.5000e-004	0.0000	6.5712	6.5712	2.9000e-004	0.0000	6.5781
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5000e-004	1.6000e-004	1.7800e-003	1.0000e-005	7.3000e-004	0.0000	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.5600	0.5600	1.0000e-005	0.0000	0.5602
Total	7.1000e-004	0.0150	6.5700e-003	8.0000e-005	2.2900e-003	3.0000e-005	2.3200e-003	6.2000e-004	3.0000e-005	6.5000e-004	0.0000	7.1312	7.1312	2.9000e-004	0.0000	7.1384

3.27 B8 - Testing/Startup - Agnews NSJ#7 Pipelines - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	5.2100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.0000e-004	3.7000e-003	4.5800e-003	1.0000e-005		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.4801	0.4801	6.0000e-005	0.0000	0.4815
Total	5.9100e-003	3.7000e-003	4.5800e-003	1.0000e-005		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.4801	0.4801	6.0000e-005	0.0000	0.4815

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.6000e-004	2.3000e-004	2.5500e-003	1.0000e-005	1.0500e-003	1.0000e-005	1.0500e-003	2.8000e-004	1.0000e-005	2.8000e-004	0.0000	0.8034	0.8034	2.0000e-005	0.0000	0.8038
Total	3.6000e-004	2.3000e-004	2.5500e-003	1.0000e-005	1.0500e-003	1.0000e-005	1.0500e-003	2.8000e-004	1.0000e-005	2.8000e-004	0.0000	0.8034	0.8034	2.0000e-005	0.0000	0.8038

3.28 C1 - Site Preparation - Agnews NSJ#8 Well Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.2800e-003	9.9900e-003	0.0145	2.0000e-005		3.9000e-004	3.9000e-004		3.7000e-004	3.7000e-004	0.0000	1.7225	1.7225	4.4000e-004	0.0000	1.7335
Total	1.2800e-003	9.9900e-003	0.0145	2.0000e-005	0.0000	3.9000e-004	3.9000e-004	0.0000	3.7000e-004	3.7000e-004	0.0000	1.7225	1.7225	4.4000e-004	0.0000	1.7335

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.4000e-004	0.0139	4.8000e-003	6.0000e-005	1.4900e-003	3.0000e-005	1.5200e-003	4.1000e-004	2.0000e-005	4.3000e-004	0.0000	6.2387	6.2387	2.8000e-004	0.0000	6.2453
Vendor	5.0000e-005	1.6000e-003	4.9000e-004	1.0000e-005	1.4000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.5447	0.5447	2.0000e-005	0.0000	0.5452
Worker	2.2000e-004	1.4000e-004	1.5800e-003	1.0000e-005	7.0000e-004	0.0000	7.0000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5146	0.5146	1.0000e-005	0.0000	0.5148
Total	7.1000e-004	0.0157	6.6700e-003	8.0000e-005	2.3300e-003	3.0000e-005	2.3700e-003	6.4000e-004	2.0000e-005	6.6000e-004	0.0000	7.2980	7.2980	2.9000e-004	0.0000	7.3053

3.29 C5 - Site Preparation - Agnews NSJ#8 Pipelines - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.6300e-003	0.0258	0.0362	5.0000e-005		1.0400e-003	1.0400e-003		1.0000e-003	1.0000e-003	0.0000	4.1633	4.1633	9.8000e-004	0.0000	4.1878
Total	3.6300e-003	0.0258	0.0362	5.0000e-005	0.0000	1.0400e-003	1.0400e-003	0.0000	1.0000e-003	1.0000e-003	0.0000	4.1633	4.1633	9.8000e-004	0.0000	4.1878

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.2000e-004	2.0000e-004	2.2600e-003	1.0000e-005	1.0000e-003	1.0000e-005	1.0100e-003	2.7000e-004	1.0000e-005	2.7000e-004	0.0000	0.7368	0.7368	1.0000e-005	0.0000	0.7371
Total	3.2000e-004	2.0000e-004	2.2600e-003	1.0000e-005	1.0000e-003	1.0000e-005	1.0100e-003	2.7000e-004	1.0000e-005	2.7000e-004	0.0000	0.7368	0.7368	1.0000e-005	0.0000	0.7371

3.30 C2 - Drilling & Installation - Agnews NSJ#8 Well Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0475	1.3217	0.6538	2.8100e-003		0.0142	0.0142		0.0133	0.0133	0.0000	244.7341	244.7341	0.0768	0.0000	246.6544

Total	0.0475	1.3217	0.6538	2.8100e-003		0.0142	0.0142		0.0133	0.0133	0.0000	244.7341	244.7341	0.0768	0.0000	246.6544
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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.5500e-003	0.1439	0.0476	6.6000e-004	0.0154	2.6000e-004	0.0157	4.2400e-003	2.5000e-004	4.5000e-003	0.0000	64.5140	64.5140	2.7300e-003	0.0000	64.5822
Vendor	1.1500e-003	0.0378	0.0116	1.3000e-004	3.4200e-003	4.0000e-005	3.4700e-003	9.9000e-004	4.0000e-005	1.0300e-003	0.0000	12.8747	12.8747	4.7000e-004	0.0000	12.8864
Worker	1.3200e-003	8.1000e-004	9.9300e-003	3.0000e-005	4.1200e-003	2.0000e-005	4.1500e-003	1.1000e-003	2.0000e-005	1.1200e-003	0.0000	3.0407	3.0407	6.0000e-005	0.0000	3.0421
Total	7.0200e-003	0.1825	0.0686	8.2000e-004	0.0230	3.2000e-004	0.0233	6.3300e-003	3.1000e-004	6.6500e-003	0.0000	80.4294	80.4294	3.2600e-003	0.0000	80.5108

3.31 C6 - Construction of Appurtenant Facilities - Agnews NSJ#8 Pipelines - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0380	0.2798	0.3667	5.4000e-004		0.0113	0.0113		0.0108	0.0108	0.0000	44.6407	44.6407	0.0109	0.0000	44.9129
Total	0.0380	0.2798	0.3667	5.4000e-004		0.0113	0.0113		0.0108	0.0108	0.0000	44.6407	44.6407	0.0109	0.0000	44.9129

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3300e-003	1.4300e-003	0.0165	6.0000e-005	7.2800e-003	4.0000e-005	7.3200e-003	1.9400e-003	4.0000e-005	1.9800e-003	0.0000	5.3680	5.3680	1.0000e-004	0.0000	5.3705
Total	2.3300e-003	1.4300e-003	0.0165	6.0000e-005	7.2800e-003	4.0000e-005	7.3200e-003	1.9400e-003	4.0000e-005	1.9800e-003	0.0000	5.3680	5.3680	1.0000e-004	0.0000	5.3705

3.32 C7 - Trenching/Installing Pipelines - Agnews NSJ#8 Pipelines - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0359	0.2577	0.3606	5.1000e-004		0.0105	0.0105		0.0100	0.0100	0.0000	41.5160	41.5160	9.8800e-003	0.0000	41.7630
Total	0.0359	0.2577	0.3606	5.1000e-004		0.0105	0.0105		0.0100	0.0100	0.0000	41.5160	41.5160	9.8800e-003	0.0000	41.7630

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.5900e-003	0.1452	0.0480	6.7000e-004	0.0156	2.6000e-004	0.0158	4.2800e-003	2.5000e-004	4.5400e-003	0.0000	65.0812	65.0812	2.7500e-003	0.0000	65.1500
Vendor	3.4000e-004	0.0111	3.4200e-003	4.0000e-005	1.0100e-003	1.0000e-005	1.0200e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	3.7881	3.7881	1.4000e-004	0.0000	3.7916
Worker	2.3300e-003	1.4300e-003	0.0165	6.0000e-005	7.2800e-003	4.0000e-005	7.3200e-003	1.9400e-003	4.0000e-005	1.9800e-003	0.0000	5.3680	5.3680	1.0000e-004	0.0000	5.3705
Total	7.2600e-003	0.1577	0.0679	7.7000e-004	0.0239	3.1000e-004	0.0242	6.5100e-003	3.0000e-004	6.8200e-003	0.0000	74.2373	74.2373	2.9900e-003	0.0000	74.3121

3.33 C3 - Development - Agnews NSJ#8 Well Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Archit. Coating	5.2100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.9600e-003	0.0386	0.0371	1.6000e-004		1.1900e-003	1.1900e-003		1.1900e-003	1.1900e-003	0.0000	16.0758	16.0758	4.7000e-004	0.0000	16.0875
Total	0.0112	0.0386	0.0371	1.6000e-004		1.1900e-003	1.1900e-003		1.1900e-003	1.1900e-003	0.0000	16.0758	16.0758	4.7000e-004	0.0000	16.0875

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.4000e-004	0.0139	4.6000e-003	6.0000e-005	1.4900e-003	3.0000e-005	1.5200e-003	4.1000e-004	2.0000e-005	4.3000e-004	0.0000	6.2387	6.2387	2.6000e-004	0.0000	6.2453
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-004	1.4000e-004	1.5800e-003	1.0000e-005	7.0000e-004	0.0000	7.0000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5146	0.5146	1.0000e-005	0.0000	0.5148
Total	6.6000e-004	0.0141	6.1800e-003	7.0000e-005	2.1900e-003	3.0000e-005	2.2200e-003	6.0000e-004	2.0000e-005	6.2000e-004	0.0000	6.7533	6.7533	2.7000e-004	0.0000	6.7601

3.34 C4 - Testing, Startup - Agnews NSJ#8 Well Construction - 2024

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	5.2100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.9100e-003	0.0383	0.0368	1.6000e-004		1.1800e-003	1.1800e-003		1.1800e-003	1.1800e-003	0.0000	15.9046	15.9046	4.6000e-004	0.0000	15.9162
Total	0.0111	0.0383	0.0368	1.6000e-004		1.1800e-003	1.1800e-003		1.1800e-003	1.1800e-003	0.0000	15.9046	15.9046	4.6000e-004	0.0000	15.9162

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.6000e-004	0.0146	4.8100e-003	7.0000e-005	1.5600e-003	3.0000e-005	1.5900e-003	4.3000e-004	3.0000e-005	4.5000e-004	0.0000	6.5223	6.5223	2.8000e-004	0.0000	6.5292
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-004	1.4000e-004	1.6500e-003	1.0000e-005	7.3000e-004	0.0000	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.5380	0.5380	1.0000e-005	0.0000	0.5382
Total	6.9000e-004	0.0147	6.4600e-003	8.0000e-005	2.2900e-003	3.0000e-005	2.3200e-003	6.2000e-004	3.0000e-005	6.5000e-004	0.0000	7.0603	7.0603	2.9000e-004	0.0000	7.0674

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Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	5.2100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.5000e-004	3.6000e-003	4.5400e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	0.4801	0.4801	5.0000e-005	0.0000	0.4814
Total	5.8600e-003	3.6000e-003	4.5400e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	0.4801	0.4801	5.0000e-005	0.0000	0.4814

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.3000e-004	2.1000e-004	2.3700e-003	1.0000e-005	1.0500e-003	1.0000e-005	1.0500e-003	2.8000e-004	1.0000e-005	2.8000e-004	0.0000	0.7719	0.7719	1.0000e-005	0.0000	0.7722
Total	3.3000e-004	2.1000e-004	2.3700e-003	1.0000e-005	1.0500e-003	1.0000e-005	1.0500e-003	2.8000e-004	1.0000e-005	2.8000e-004	0.0000	0.7719	0.7719	1.0000e-005	0.0000	0.7722

4.0 Operational Detail - Mobile

Operational emissions not estimated