

Lower Walnut Creek Restoration - EN "Phase 2" - Bay Area AQMD Air District, Annual

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	403.00	Acre	403.00	17,554,680.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	64
Climate Zone	4			Operational Year	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Expanded North - "Phase 2_S and N"

Land Use - Acreage from project description; buildings from Placeworks

Construction Phase - Project Specific "District Lands_LWC_Construction Details_2018-0118.xlsx"

Off-road Equipment - dump truck = onsite haul days

Off-road Equipment - project specific

Off-road Equipment - water truck = vendor trip

Off-road Equipment - project specific

Off-road Equipment - dump truck = haul trip

Off-road Equipment - LGP Dump Truck = onsite haul trip

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Off-road Equipment - LGP Dump Truck = onsite haul trip
 Off-road Equipment - LGP dump truck = onsite truck trip

Off-road Equipment - LGP Dump Truck = onsite haul trip

Off-road Equipment - vendor trips

Off-road Equipment -

Off-road Equipment - project specific equipment count; haul trucks for onsite movement

Off-road Equipment - project specific

Off-road Equipment - project specific equipment count; haul trucks for onsite movement

Off-road Equipment - dump truck = haul trip

Off-road Equipment - project specific

Off-road Equipment - project specific

Off-road Equipment - Project specific. John Deer 1600 Series III Turbo = 60.0 hp; load factor from crawler tractor default (0.4288)

Off-road Equipment - project specific equipment count
 concrete pump truck = cement and mortar mixers + pumps + haul truck (onsite movement)

Off-road Equipment - concrete pump truck = cement and mortar mixers + pumps + haul truck (onsite movement)

Off-road Equipment - project specific

Off-road Equipment - project specific equipment count; haul trucks for onsite movement

Trips and VMT - Onsite haul trips = 0.25

Offsite haul trips = 5 miles

Grading - Not relevant. BAAQMD PM Thresholds for exhaust only

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	7,750.00	15.00
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tblConstructionPhase	NumDays	775.00	61.00
tblConstructionPhase	NumDays	775.00	62.00
tblConstructionPhase	NumDays	775.00	48.00

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tblConstructionPhase	NumDays	775.00	62.00
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tblConstructionPhase	NumDays	300.00	61.00
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tblConstructionPhase	PhaseEndDate	7/17/2132	1/20/2021
tblConstructionPhase	PhaseEndDate	2/16/2073	6/19/2020
tblConstructionPhase	PhaseEndDate	6/25/2037	9/8/2020
tblConstructionPhase	PhaseEndDate	6/14/2040	11/24/2020
tblConstructionPhase	PhaseEndDate	6/4/2043	1/26/2021
tblConstructionPhase	PhaseEndDate	8/7/2025	7/7/2020
tblConstructionPhase	PhaseEndDate	7/27/2028	10/21/2020
tblConstructionPhase	PhaseEndDate	7/17/2031	8/25/2020
tblConstructionPhase	PhaseEndDate	7/6/2034	8/31/2020
tblConstructionPhase	PhaseEndDate	8/26/2134	1/13/2021
tblConstructionPhase	PhaseEndDate	6/24/2021	5/14/2020
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tblConstructionPhase	PhaseEndDate	6/4/2043	9/23/2020
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tblConstructionPhase	PhaseStartDate	6/26/2037	9/1/2020
tblConstructionPhase	PhaseStartDate	6/15/2040	11/2/2020
tblConstructionPhase	PhaseStartDate	8/19/2022	5/1/2020
tblConstructionPhase	PhaseStartDate	8/8/2025	6/1/2020
tblConstructionPhase	PhaseStartDate	7/28/2028	6/1/2020
tblConstructionPhase	PhaseStartDate	7/18/2031	6/1/2020
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tblConstructionPhase	PhaseStartDate	6/5/2043	6/1/2020
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tblGrading	AcresOfGrading	24.00	0.00
tblGrading	AcresOfGrading	77.25	257.50
tblGrading	AcresOfGrading	93.00	124.00
tblOffRoadEquipment	HorsePower	88.00	60.00
tblOffRoadEquipment	LoadFactor	0.34	0.43

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tblOffRoadEquipment	PhaseName		Pipeline2
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tblOffRoadEquipment	PhaseName		Excavate marsh pond
tblOffRoadEquipment	PhaseName		Install culverts
tblOffRoadEquipment	PhaseName		Excavate levee2
tblOffRoadEquipment	PhaseName		Excavate tidal channels2
tblOffRoadEquipment	PhaseName		Pipeline2
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tblOffRoadEquipment	PhaseName		Excavate levee1
tblOffRoadEquipment	PhaseName		Excavate tidal channels1
tblOffRoadEquipment	PhaseName		Pipeline1
tblOffRoadEquipment	PhaseName		Isolate
tblOffRoadEquipment	PhaseName		Mow
tblOffRoadEquipment	PhaseName		Fencing
tblOffRoadEquipment	PhaseName		Grade upland fill
tblOffRoadEquipment	PhaseName		Build
tblOffRoadEquipment	PhaseName		Pipeline2
tblOffRoadEquipment	PhaseName		Pipeline2
tblOffRoadEquipment	PhaseName		Pipeline1
tblOffRoadEquipment	PhaseName		Pipeline1
tblOffRoadEquipment	PhaseName		Access Road
tblOffRoadEquipment	PhaseName		Reveg

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tblOffRoadEquipment	PhaseName		Excavate berms
tblOffRoadEquipment	UsageHours	8.00	3.00
tblOffRoadEquipment	UsageHours	8.00	3.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
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tblTripsAndVMT	HaulingTripLength	20.00	0.25
tblTripsAndVMT	HaulingTripLength	20.00	0.25
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tblTripsAndVMT	HaulingTripNumber	0.00	2,134.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,200.00
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tblTripsAndVMT	HaulingTripNumber	0.00	5,117.00
tblTripsAndVMT	HaulingTripNumber	0.00	2,000.00
tblTripsAndVMT	HaulingTripNumber	0.00	2,234.00

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tblTripsAndVMT	VendorTripNumber	2,877.00	4.00
tblTripsAndVMT	VendorTripNumber	2,877.00	2.00
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tblTripsAndVMT	VendorTripNumber	2,877.00	4.00
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tblTripsAndVMT	WorkerTripNumber	3.00	6.00
tblTripsAndVMT	WorkerTripNumber	7,373.00	24.00

2.0 Emissions Summary

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	5-1-2020	7-31-2020	2.4453	2.4453
2	8-1-2020	10-31-2020	2.2136	2.2136
3	11-1-2020	1-31-2021	1.1883	1.1883
		Highest	2.4453	2.4453

2.2 Overall Operational

Unmitigated Operational

	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					
Area	0.2031	3.0000e-005	3.7200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.2000e-003	7.2000e-003	2.0000e-005	0.0000	7.6800e-003
Energy	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
Mobile	0.7707	3.7716	8.9083	0.0306	2.5863	0.0285	2.6148	0.6942	0.0267	0.7209	0.0000	2,810.6274	2,810.6274	0.1054	0.0000	2,813.2635
Waste						0.0000	0.0000		0.0000	0.0000	7.0357	0.0000	7.0357	0.4158	0.0000	17.4306
Water						0.0000	0.0000		0.0000	0.0000	0.0000	488.9013	488.9013	0.0221	4.5700e-003	490.8170
Total	0.9739	3.7716	8.9120	0.0306	2.5863	0.0285	2.6148	0.6942	0.0267	0.7209	7.0357	3,299.5359	3,306.5716	0.5434	4.5700e-003	3,321.5187

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2.2 Overall Operational

Mitigated Operational

	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					
Area	0.2031	3.0000e-005	3.7200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.2000e-003	7.2000e-003	2.0000e-005	0.0000	7.6800e-003
Energy	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
Mobile	0.7707	3.7716	8.9083	0.0306	2.5863	0.0285	2.6148	0.6942	0.0267	0.7209	0.0000	2,810.6274	2,810.6274	0.1054	0.0000	2,813.2635
Waste						0.0000	0.0000		0.0000	0.0000	7.0357	0.0000	7.0357	0.4158	0.0000	17.4306
Water						0.0000	0.0000		0.0000	0.0000	0.0000	488.9013	488.9013	0.0221	4.5700e-003	490.8170
Total	0.9739	3.7716	8.9120	0.0306	2.5863	0.0285	2.6148	0.6942	0.0267	0.7209	7.0357	3,299.5359	3,306.5716	0.5434	4.5700e-003	3,321.5187

	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
Percent Reduction	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	Mow	Site Preparation	5/1/2020	5/14/2020	5	10	Clear and grub excavation and fill areas
2	Reveg	Site Preparation	11/2/2020	1/25/2021	5	61	Revegetation

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3	Setback	Grading	5/1/2020	7/7/2020	5	48	Foundation excavation and subgrade preparation for new setback levees
4	Grade NW NE	Grading	6/1/2020	10/21/2020	5	103	Excavate and Grading of NW and NE areas
5	Haul N to S	Grading	6/1/2020	8/25/2020	5	62	Haul levee fill material from North to South
6	Build	Grading	6/1/2020	8/31/2020	5	66	Build levee with North and South sourced Materials
7	Fill	Grading	9/1/2020	9/8/2020	5	6	Place fill material along transition slope
8	Haul to N	Grading	9/1/2020	11/24/2020	5	61	Haul excess material to North Reach
9	Grade upland fill	Grading	11/2/2020	1/26/2021	5	62	Finish Grading of upland fill and stockpile and road
10	Excavate levee1	Trenching	6/1/2020	7/20/2020	5	36	Excavate existing levee to elevation 10 ft NAVD
11	Excavate tidal channels1	Trenching	6/1/2020	7/24/2020	5	40	Excavate new tidal channels within diked basin
12	Pipeline1	Building Construction	6/1/2020	6/19/2020	5	15	Implement Shortcut pipelin recycled water pipelinn and petroleum pipeline protection measuresn
13	Isolate	Trenching	6/1/2020	6/1/2020	5	1	Isolate SLC Channel from tidal connect
14	Excavate marsh pond	Trenching	6/1/2020	9/23/2020	5	83	Excavate new tidal channels marsh ponds in N SN and SW areasN
15	Install culverts	Trenching	8/3/2020	8/7/2020	5	5	Install new culverts under TransMontaigne Pier Access Road
16	Excavate levee2	Trenching	9/1/2020	10/23/2020	5	39	Excavate levee to design elevation
17	Excavate tidal channels2	Trenching	9/1/2020	9/30/2020	5	22	Excavate new tidal channels connecting to Walnut and Pacheco Creeks
18	Excavate berms	Trenching	11/2/2020	11/13/2020	5	10	Excavate existing berms in SW
19	Breach	Trenching	11/2/2020	11/27/2020	5	20	Breach new tidal channel connections
20	Pipeline2	Building Construction	9/1/2020	9/21/2020	5	15	Implement Shortcut pipelin recycled water pipelinn and petroleum pipeline protection measuresn
21	Fencing	Building Construction	1/1/2021	1/20/2021	5	14	Fencing
22	Access Road	Paving	1/1/2021	1/13/2021	5	9	Access road improvements

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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: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Mow	Other General Industrial Equipment	6	8.00	60	0.43
Setback	Excavators	1	3.00	158	0.38
Setback	Scrapers	1	4.00	367	0.48
Grade NW NE	Excavators	1	8.00	158	0.38
Grade NW NE	Scrapers	1	8.00	367	0.48
Haul N to S	Excavators	1	4.00	158	0.38
Build	Graders	1	8.00	187	0.41
Build	Plate Compactors	1	5.00	8	0.43
Excavate levee1	Excavators	1	4.00	158	0.38
Excavate tidal channels1	Excavators	1	3.00	158	0.38
Pipeline1	Cement and Mortar Mixers	2	8.00	9	0.56
Pipeline1	Excavators	2	8.00	158	0.38
Pipeline1	Pumps	4	8.00	84	0.74
Pipeline1	Pumps	2	8.00	84	0.74
Isolate	Excavators	1	8.00	158	0.38
Excavate marsh pond	Excavators	1	7.00	158	0.38
Install culverts	Bore/Drill Rigs	1	8.00	221	0.50
Install culverts	Excavators	1	8.00	158	0.38

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Fill	Graders	1	8.00	187	0.41
Haul to N	Excavators	1	3.00	158	0.38
Excavate levee2	Excavators	1	3.00	158	0.38
Excavate tidal channels2	Excavators	1	3.00	158	0.38
Pipeline2	Cement and Mortar Mixers	2	8.00	9	0.56
Pipeline2	Excavators	2	8.00	158	0.38
Pipeline2	Pumps	4	8.00	84	0.74
Pipeline2	Pumps	2	8.00	84	0.74
Reveg	Rubber Tired Loaders	1	8.00	203	0.36
Grade upland fill	Graders	4	8.00	187	0.41
Grade upland fill	Plate Compactors	2	8.00	8	0.43
Excavate berms	Scrapers	1	8.00	367	0.48
Breach	Excavators	1	8.00	158	0.38
Fencing	Other Material Handling Equipment	0	8.00	168	0.40
Access Road	Rollers	1	4.00	80	0.38
Access Road	Rubber Tired Dozers	1	4.00	247	0.40

Trips and VMT

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Mow	5	18.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Setback	2	9.00	0.00	2,650.00	10.80	6.60	0.25	LD_Mix	HDT_Mix	HHDT
Grade NW NE	2	20.00	0.00	21,559.00	10.80	6.60	0.25	LD_Mix	HDT_Mix	HHDT
Haul N to S	1	15.00	0.00	5,117.00	10.80	6.60	5.00	LD_Mix	HDT_Mix	HHDT
Build	2	9.00	2.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Excavate levee1	1	6.00	0.00	2,000.00	10.80	6.60	0.25	LD_Mix	HDT_Mix	HHDT
Excavate tidal channels1	1	6.00	0.00	2,234.00	10.80	6.60	0.25	LD_Mix	HDT_Mix	HHDT
Pipeline1	10	24.00	4.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Isolate	1	3.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Excavate marsh pond	1	12.00	0.00	11,767.00	10.80	6.60	0.25	LD_Mix	HDT_Mix	HHDT
Install culverts	2	6.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Fill	1	12.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Haul to N	1	12.00	0.00	2,950.00	10.80	6.60	5.00	LD_Mix	HDT_Mix	HHDT
Excavate levee2	1	6.00	0.00	2,134.00	10.80	6.60	0.25	LD_Mix	HDT_Mix	HHDT
Excavate tidal channels2	1	6.00	0.00	1,200.00	10.80	6.60	0.25	LD_Mix	HDT_Mix	HHDT
Pipeline2	10	24.00	4.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Reveg	1	3.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grade upland fill	5	18.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Excavate berms	1	3.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Breach	1	3.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Fencing	0	3.00	2.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Access Road	2	9.00	0.00	467.00	10.80	6.60	0.25	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Lower Walnut Creek Restoration - EN "Phase 2" - Bay Area AQMD Air District, Annual

3.2 Mow - 2020

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	6.0900e-003	0.0554	0.0515	7.0000e-005		4.0400e-003	4.0400e-003		3.7200e-003	3.7200e-003	0.0000	5.8205	5.8205	1.8800e-003	0.0000	5.8675
Total	6.0900e-003	0.0554	0.0515	7.0000e-005	0.0000	4.0400e-003	4.0400e-003	0.0000	3.7200e-003	3.7200e-003	0.0000	5.8205	5.8205	1.8800e-003	0.0000	5.8675

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	3.0000e-004	2.1000e-004	2.2100e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.6231	0.6231	2.0000e-005	0.0000	0.6234
Total	3.0000e-004	2.1000e-004	2.2100e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.6231	0.6231	2.0000e-005	0.0000	0.6234

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3.2 Mow - 2020

Mitigated 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	6.0900e-003	0.0554	0.0515	7.0000e-005		4.0400e-003	4.0400e-003		3.7200e-003	3.7200e-003	0.0000	5.8205	5.8205	1.8800e-003	0.0000	5.8675
Total	6.0900e-003	0.0554	0.0515	7.0000e-005	0.0000	4.0400e-003	4.0400e-003	0.0000	3.7200e-003	3.7200e-003	0.0000	5.8205	5.8205	1.8800e-003	0.0000	5.8675

Mitigated 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	3.0000e-004	2.1000e-004	2.2100e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.6231	0.6231	2.0000e-005	0.0000	0.6234
Total	3.0000e-004	2.1000e-004	2.2100e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.6231	0.6231	2.0000e-005	0.0000	0.6234

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3.3 Reveg - 2020

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	8.2300e-003	0.0970	0.0360	1.4000e-004		3.2200e-003	3.2200e-003		2.9600e-003	2.9600e-003	0.0000	12.0778	12.0778	3.9100e-003	0.0000	12.1755
Total	8.2300e-003	0.0970	0.0360	1.4000e-004	0.0000	3.2200e-003	3.2200e-003	0.0000	2.9600e-003	2.9600e-003	0.0000	12.0778	12.0778	3.9100e-003	0.0000	12.1755

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	2.2000e-004	1.6000e-004	1.6200e-003	1.0000e-005	5.2000e-004	0.0000	5.3000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4569	0.4569	1.0000e-005	0.0000	0.4572
Total	2.2000e-004	1.6000e-004	1.6200e-003	1.0000e-005	5.2000e-004	0.0000	5.3000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4569	0.4569	1.0000e-005	0.0000	0.4572

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Mitigated 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	8.2300e-003	0.0970	0.0360	1.4000e-004		3.2200e-003	3.2200e-003		2.9600e-003	2.9600e-003	0.0000	12.0778	12.0778	3.9100e-003	0.0000	12.1755
Total	8.2300e-003	0.0970	0.0360	1.4000e-004	0.0000	3.2200e-003	3.2200e-003	0.0000	2.9600e-003	2.9600e-003	0.0000	12.0778	12.0778	3.9100e-003	0.0000	12.1755

Mitigated 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	2.2000e-004	1.6000e-004	1.6200e-003	1.0000e-005	5.2000e-004	0.0000	5.3000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4569	0.4569	1.0000e-005	0.0000	0.4572
Total	2.2000e-004	1.6000e-004	1.6200e-003	1.0000e-005	5.2000e-004	0.0000	5.3000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4569	0.4569	1.0000e-005	0.0000	0.4572

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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	2.9200e-003	0.0328	0.0136	5.0000e-005		1.1000e-003	1.1000e-003		1.0100e-003	1.0100e-003	0.0000	4.6669	4.6669	1.5100e-003	0.0000	4.7047
Total	2.9200e-003	0.0328	0.0136	5.0000e-005	0.0000	1.1000e-003	1.1000e-003	0.0000	1.0100e-003	1.0100e-003	0.0000	4.6669	4.6669	1.5100e-003	0.0000	4.7047

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	8.0000e-005	5.0000e-005	5.7000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1703	0.1703	0.0000	0.0000	0.1704
Total	8.0000e-005	5.0000e-005	5.7000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1703	0.1703	0.0000	0.0000	0.1704

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3.3 Reveg - 2021

Mitigated 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	2.9200e-003	0.0328	0.0136	5.0000e-005		1.1000e-003	1.1000e-003		1.0100e-003	1.0100e-003	0.0000	4.6669	4.6669	1.5100e-003	0.0000	4.7047
Total	2.9200e-003	0.0328	0.0136	5.0000e-005	0.0000	1.1000e-003	1.1000e-003	0.0000	1.0100e-003	1.0100e-003	0.0000	4.6669	4.6669	1.5100e-003	0.0000	4.7047

Mitigated 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	8.0000e-005	5.0000e-005	5.7000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1703	0.1703	0.0000	0.0000	0.1704
Total	8.0000e-005	5.0000e-005	5.7000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1703	0.1703	0.0000	0.0000	0.1704

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3.4 Setback - 2020

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	0.0141	0.1627	0.1189	2.3000e-004		6.5500e-003	6.5500e-003		6.0300e-003	6.0300e-003	0.0000	20.0535	20.0535	6.4900e-003	0.0000	20.2157
Total	0.0141	0.1627	0.1189	2.3000e-004	0.0000	6.5500e-003	6.5500e-003	0.0000	6.0300e-003	6.0300e-003	0.0000	20.0535	20.0535	6.4900e-003	0.0000	20.2157

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	2.5100e-003	0.1285	0.0189	1.4000e-004	3.1000e-004	9.0000e-005	4.0000e-004	9.0000e-005	8.0000e-005	1.7000e-004	0.0000	13.8473	13.8473	2.0200e-003	0.0000	13.8978
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	7.2000e-004	5.1000e-004	5.3100e-003	2.0000e-005	1.7100e-003	1.0000e-005	1.7200e-003	4.5000e-004	1.0000e-005	4.6000e-004	0.0000	1.4953	1.4953	4.0000e-005	0.0000	1.4962
Total	3.2300e-003	0.1290	0.0242	1.6000e-004	2.0200e-003	1.0000e-004	2.1200e-003	5.4000e-004	9.0000e-005	6.3000e-004	0.0000	15.3426	15.3426	2.0600e-003	0.0000	15.3940

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3.4 Setback - 2020

Mitigated 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	0.0141	0.1627	0.1189	2.3000e-004	6.5500e-003	6.5500e-003		6.0300e-003	6.0300e-003		0.0000	20.0535	20.0535	6.4900e-003	0.0000	20.2157
Total	0.0141	0.1627	0.1189	2.3000e-004	6.5500e-003	6.5500e-003		6.0300e-003	6.0300e-003		0.0000	20.0535	20.0535	6.4900e-003	0.0000	20.2157

Mitigated 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	2.5100e-003	0.1285	0.0189	1.4000e-004	3.1000e-004	9.0000e-005	4.0000e-004	9.0000e-005	8.0000e-005	1.7000e-004	0.0000	13.8473	13.8473	2.0200e-003	0.0000	13.8978
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	7.2000e-004	5.1000e-004	5.3100e-003	2.0000e-005	1.7100e-003	1.0000e-005	1.7200e-003	4.5000e-004	1.0000e-005	4.6000e-004	0.0000	1.4953	1.4953	4.0000e-005	0.0000	1.4962
Total	3.2300e-003	0.1290	0.0242	1.6000e-004	2.0200e-003	1.0000e-004	2.1200e-003	5.4000e-004	9.0000e-005	6.3000e-004	0.0000	15.3426	15.3426	2.0600e-003	0.0000	15.3940

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3.5 Grade NW NE - 2020

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					0.1365	0.0000	0.1365	0.0147	0.0000	0.0147	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0638	0.7295	0.5524	1.0500e-003		0.0296	0.0296		0.0273	0.0273	0.0000	91.9045	91.9045	0.0297	0.0000	92.6476
Total	0.0638	0.7295	0.5524	1.0500e-003	0.1365	0.0296	0.1662	0.0147	0.0273	0.0420	0.0000	91.9045	91.9045	0.0297	0.0000	92.6476

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	0.0204	1.0454	0.1539	1.1600e-003	2.5000e-003	7.1000e-004	3.2200e-003	7.1000e-004	6.8000e-004	1.3900e-003	0.0000	112.6540	112.6540	0.0164	0.0000	113.0651
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	3.4100e-003	2.4400e-003	0.0253	8.0000e-005	8.1400e-003	5.0000e-005	8.1900e-003	2.1700e-003	5.0000e-005	2.2200e-003	0.0000	7.1305	7.1305	1.7000e-004	0.0000	7.1348
Total	0.0238	1.0478	0.1792	1.2400e-003	0.0106	7.6000e-004	0.0114	2.8800e-003	7.3000e-004	3.6100e-003	0.0000	119.7845	119.7845	0.0166	0.0000	120.1999

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3.5 Grade NW NE - 2020

Mitigated 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					0.1365	0.0000	0.1365	0.0147	0.0000	0.0147	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0638	0.7295	0.5524	1.0500e-003		0.0296	0.0296		0.0273	0.0273	0.0000	91.9044	91.9044	0.0297	0.0000	92.6475
Total	0.0638	0.7295	0.5524	1.0500e-003	0.1365	0.0296	0.1662	0.0147	0.0273	0.0420	0.0000	91.9044	91.9044	0.0297	0.0000	92.6475

Mitigated 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	0.0204	1.0454	0.1539	1.1600e-003	2.5000e-003	7.1000e-004	3.2200e-003	7.1000e-004	6.8000e-004	1.3900e-003	0.0000	112.6540	112.6540	0.0164	0.0000	113.0651
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	3.4100e-003	2.4400e-003	0.0253	8.0000e-005	8.1400e-003	5.0000e-005	8.1900e-003	2.1700e-003	5.0000e-005	2.2200e-003	0.0000	7.1305	7.1305	1.7000e-004	0.0000	7.1348
Total	0.0238	1.0478	0.1792	1.2400e-003	0.0106	7.6000e-004	0.0114	2.8800e-003	7.3000e-004	3.6100e-003	0.0000	119.7845	119.7845	0.0166	0.0000	120.1999

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3.6 Haul N to S - 2020

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	3.8000e-003	0.0374	0.0507	8.0000e-005		1.8100e-003	1.8100e-003		1.6700e-003	1.6700e-003	0.0000	7.0324	7.0324	2.2700e-003	0.0000	7.0892
Total	3.8000e-003	0.0374	0.0507	8.0000e-005	0.0000	1.8100e-003	1.8100e-003	0.0000	1.6700e-003	1.6700e-003	0.0000	7.0324	7.0324	2.2700e-003	0.0000	7.0892

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	8.8200e-003	0.3684	0.0639	7.0000e-004	0.0108	7.1000e-004	0.0116	2.9900e-003	6.8000e-004	3.6600e-003	0.0000	67.4652	67.4652	5.3900e-003	0.0000	67.6000
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	1.5400e-003	1.1000e-003	0.0114	4.0000e-005	3.6700e-003	2.0000e-005	3.7000e-003	9.8000e-004	2.0000e-005	1.0000e-003	0.0000	3.2191	3.2191	8.0000e-005	0.0000	3.2211
Total	0.0104	0.3695	0.0753	7.4000e-004	0.0145	7.3000e-004	0.0153	3.9700e-003	7.0000e-004	4.6600e-003	0.0000	70.6843	70.6843	5.4700e-003	0.0000	70.8211

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3.6 Haul N to S - 2020

Mitigated 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	3.8000e-003	0.0374	0.0507	8.0000e-005		1.8100e-003	1.8100e-003		1.6700e-003	1.6700e-003	0.0000	7.0323	7.0323	2.2700e-003	0.0000	7.0892
Total	3.8000e-003	0.0374	0.0507	8.0000e-005	0.0000	1.8100e-003	1.8100e-003	0.0000	1.6700e-003	1.6700e-003	0.0000	7.0323	7.0323	2.2700e-003	0.0000	7.0892

Mitigated 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	8.8200e-003	0.3684	0.0639	7.0000e-004	0.0108	7.1000e-004	0.0116	2.9900e-003	6.8000e-004	3.6600e-003	0.0000	67.4652	67.4652	5.3900e-003	0.0000	67.6000
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	1.5400e-003	1.1000e-003	0.0114	4.0000e-005	3.6700e-003	2.0000e-005	3.7000e-003	9.8000e-004	2.0000e-005	1.0000e-003	0.0000	3.2191	3.2191	8.0000e-005	0.0000	3.2211
Total	0.0104	0.3695	0.0753	7.4000e-004	0.0145	7.3000e-004	0.0153	3.9700e-003	7.0000e-004	4.6600e-003	0.0000	70.6843	70.6843	5.4700e-003	0.0000	70.8211

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3.7 Build - 2020

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					0.0175	0.0000	0.0175	1.8900e-003	0.0000	1.8900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0165	0.2139	0.0642	2.3000e-004		6.8700e-003	6.8700e-003		6.3400e-003	6.3400e-003	0.0000	19.8863	19.8863	6.2900e-003	0.0000	20.0435
Total	0.0165	0.2139	0.0642	2.3000e-004	0.0175	6.8700e-003	0.0244	1.8900e-003	6.3400e-003	8.2300e-003	0.0000	19.8863	19.8863	6.2900e-003	0.0000	20.0435

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	2.4000e-004	7.2700e-003	1.8300e-003	2.0000e-005	3.9000e-004	3.0000e-005	4.3000e-004	1.1000e-004	3.0000e-005	1.5000e-004	0.0000	1.5948	1.5948	9.0000e-005	0.0000	1.5970
Worker	9.8000e-004	7.0000e-004	7.2900e-003	2.0000e-005	2.3500e-003	2.0000e-005	2.3600e-003	6.2000e-004	1.0000e-005	6.4000e-004	0.0000	2.0561	2.0561	5.0000e-005	0.0000	2.0573
Total	1.2200e-003	7.9700e-003	9.1200e-003	4.0000e-005	2.7400e-003	5.0000e-005	2.7900e-003	7.3000e-004	4.0000e-005	7.9000e-004	0.0000	3.6509	3.6509	1.4000e-004	0.0000	3.6543

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3.7 Build - 2020

Mitigated 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					0.0175	0.0000	0.0175	1.8900e-003	0.0000	1.8900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0165	0.2139	0.0642	2.3000e-004		6.8700e-003	6.8700e-003		6.3400e-003	6.3400e-003	0.0000	19.8862	19.8862	6.2900e-003	0.0000	20.0435
Total	0.0165	0.2139	0.0642	2.3000e-004	0.0175	6.8700e-003	0.0244	1.8900e-003	6.3400e-003	8.2300e-003	0.0000	19.8862	19.8862	6.2900e-003	0.0000	20.0435

Mitigated 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	2.4000e-004	7.2700e-003	1.8300e-003	2.0000e-005	3.9000e-004	3.0000e-005	4.3000e-004	1.1000e-004	3.0000e-005	1.5000e-004	0.0000	1.5948	1.5948	9.0000e-005	0.0000	1.5970
Worker	9.8000e-004	7.0000e-004	7.2900e-003	2.0000e-005	2.3500e-003	2.0000e-005	2.3600e-003	6.2000e-004	1.0000e-005	6.4000e-004	0.0000	2.0561	2.0561	5.0000e-005	0.0000	2.0573
Total	1.2200e-003	7.9700e-003	9.1200e-003	4.0000e-005	2.7400e-003	5.0000e-005	2.7900e-003	7.3000e-004	4.0000e-005	7.9000e-004	0.0000	3.6509	3.6509	1.4000e-004	0.0000	3.6543

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3.8 Fill - 2020

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					1.5900e-003	0.0000	1.5900e-003	1.7000e-004	0.0000	1.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4300e-003	0.0190	5.4400e-003	2.0000e-005		6.1000e-004	6.1000e-004		5.6000e-004	5.6000e-004	0.0000	1.7492	1.7492	5.7000e-004	0.0000	1.7633
Total	1.4300e-003	0.0190	5.4400e-003	2.0000e-005	1.5900e-003	6.1000e-004	2.2000e-003	1.7000e-004	5.6000e-004	7.3000e-004	0.0000	1.7492	1.7492	5.7000e-004	0.0000	1.7633

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	1.2000e-004	9.0000e-005	8.8000e-004	0.0000	2.8000e-004	0.0000	2.9000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2492	0.2492	1.0000e-005	0.0000	0.2494
Total	1.2000e-004	9.0000e-005	8.8000e-004	0.0000	2.8000e-004	0.0000	2.9000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2492	0.2492	1.0000e-005	0.0000	0.2494

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3.8 Fill - 2020

Mitigated 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					1.5900e-003	0.0000	1.5900e-003	1.7000e-004	0.0000	1.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4300e-003	0.0190	5.4400e-003	2.0000e-005		6.1000e-004	6.1000e-004		5.6000e-004	5.6000e-004	0.0000	1.7492	1.7492	5.7000e-004	0.0000	1.7633
Total	1.4300e-003	0.0190	5.4400e-003	2.0000e-005	1.5900e-003	6.1000e-004	2.2000e-003	1.7000e-004	5.6000e-004	7.3000e-004	0.0000	1.7492	1.7492	5.7000e-004	0.0000	1.7633

Mitigated 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	1.2000e-004	9.0000e-005	8.8000e-004	0.0000	2.8000e-004	0.0000	2.9000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2492	0.2492	1.0000e-005	0.0000	0.2494
Total	1.2000e-004	9.0000e-005	8.8000e-004	0.0000	2.8000e-004	0.0000	2.9000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2492	0.2492	1.0000e-005	0.0000	0.2494

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3.9 Haul to N - 2020

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	2.8000e-003	0.0276	0.0374	6.0000e-005		1.3400e-003	1.3400e-003		1.2300e-003	1.2300e-003	0.0000	5.1892	5.1892	1.6800e-003	0.0000	5.2312
Total	2.8000e-003	0.0276	0.0374	6.0000e-005	0.0000	1.3400e-003	1.3400e-003	0.0000	1.2300e-003	1.2300e-003	0.0000	5.1892	5.1892	1.6800e-003	0.0000	5.2312

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	5.0800e-003	0.2124	0.0368	4.0000e-004	6.2500e-003	4.1000e-004	6.6600e-003	1.7200e-003	3.9000e-004	2.1100e-003	0.0000	38.8944	38.8944	3.1100e-003	0.0000	38.9721
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	1.2100e-003	8.7000e-004	8.9900e-003	3.0000e-005	2.8900e-003	2.0000e-005	2.9100e-003	7.7000e-004	2.0000e-005	7.9000e-004	0.0000	2.5338	2.5338	6.0000e-005	0.0000	2.5353
Total	6.2900e-003	0.2132	0.0458	4.3000e-004	9.1400e-003	4.3000e-004	9.5700e-003	2.4900e-003	4.1000e-004	2.9000e-003	0.0000	41.4281	41.4281	3.1700e-003	0.0000	41.5073

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3.9 Haul to N - 2020

Mitigated 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	2.8000e-003	0.0276	0.0374	6.0000e-005		1.3400e-003	1.3400e-003		1.2300e-003	1.2300e-003	0.0000	5.1892	5.1892	1.6800e-003	0.0000	5.2311
Total	2.8000e-003	0.0276	0.0374	6.0000e-005	0.0000	1.3400e-003	1.3400e-003	0.0000	1.2300e-003	1.2300e-003	0.0000	5.1892	5.1892	1.6800e-003	0.0000	5.2311

Mitigated 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	5.0800e-003	0.2124	0.0368	4.0000e-004	6.2500e-003	4.1000e-004	6.6600e-003	1.7200e-003	3.9000e-004	2.1100e-003	0.0000	38.8944	38.8944	3.1100e-003	0.0000	38.9721
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	1.2100e-003	8.7000e-004	8.9900e-003	3.0000e-005	2.8900e-003	2.0000e-005	2.9100e-003	7.7000e-004	2.0000e-005	7.9000e-004	0.0000	2.5338	2.5338	6.0000e-005	0.0000	2.5353
Total	6.2900e-003	0.2132	0.0458	4.3000e-004	9.1400e-003	4.3000e-004	9.5700e-003	2.4900e-003	4.1000e-004	2.9000e-003	0.0000	41.4281	41.4281	3.1700e-003	0.0000	41.5073

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3.10 Grade upland fill - 2020

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					0.0658	0.0000	0.0658	7.1000e-003	0.0000	7.1000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0436	0.5677	0.1689	6.1000e-004		0.0182	0.0182		0.0168	0.0168	0.0000	52.6860	52.6860	0.0167	0.0000	53.1044
Total	0.0436	0.5677	0.1689	6.1000e-004	0.0658	0.0182	0.0840	7.1000e-003	0.0168	0.0239	0.0000	52.6860	52.6860	0.0167	0.0000	53.1044

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	1.3100e-003	9.4000e-004	9.7300e-003	3.0000e-005	3.1300e-003	2.0000e-005	3.1500e-003	8.3000e-004	2.0000e-005	8.5000e-004	0.0000	2.7414	2.7414	7.0000e-005	0.0000	2.7431
Total	1.3100e-003	9.4000e-004	9.7300e-003	3.0000e-005	3.1300e-003	2.0000e-005	3.1500e-003	8.3000e-004	2.0000e-005	8.5000e-004	0.0000	2.7414	2.7414	7.0000e-005	0.0000	2.7431

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3.10 Grade upland fill - 2020

Mitigated 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					0.0658	0.0000	0.0658	7.1000e-003	0.0000	7.1000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0436	0.5677	0.1689	6.1000e-004		0.0182	0.0182		0.0168	0.0168	0.0000	52.6859	52.6859	0.0167	0.0000	53.1043
Total	0.0436	0.5677	0.1689	6.1000e-004	0.0658	0.0182	0.0840	7.1000e-003	0.0168	0.0239	0.0000	52.6859	52.6859	0.0167	0.0000	53.1043

Mitigated 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	1.3100e-003	9.4000e-004	9.7300e-003	3.0000e-005	3.1300e-003	2.0000e-005	3.1500e-003	8.3000e-004	2.0000e-005	8.5000e-004	0.0000	2.7414	2.7414	7.0000e-005	0.0000	2.7431
Total	1.3100e-003	9.4000e-004	9.7300e-003	3.0000e-005	3.1300e-003	2.0000e-005	3.1500e-003	8.3000e-004	2.0000e-005	8.5000e-004	0.0000	2.7414	2.7414	7.0000e-005	0.0000	2.7431

Lower Walnut Creek Restoration - EN "Phase 2" - Bay Area AQMD Air District, Annual

3.10 Grade upland fill - 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					0.0658	0.0000	0.0658	7.1000e-003	0.0000	7.1000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0170	0.2178	0.0674	2.5000e-004		6.9300e-003	6.9300e-003		6.3900e-003	6.3900e-003	0.0000	21.5196	21.5196	6.8400e-003	0.0000	21.6905
Total	0.0170	0.2178	0.0674	2.5000e-004	0.0658	6.9300e-003	0.0727	7.1000e-003	6.3900e-003	0.0135	0.0000	21.5196	21.5196	6.8400e-003	0.0000	21.6905

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	5.0000e-004	3.4000e-004	3.6300e-003	1.0000e-005	1.2800e-003	1.0000e-005	1.2900e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.0821	1.0821	2.0000e-005	0.0000	1.0828
Total	5.0000e-004	3.4000e-004	3.6300e-003	1.0000e-005	1.2800e-003	1.0000e-005	1.2900e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.0821	1.0821	2.0000e-005	0.0000	1.0828

Lower Walnut Creek Restoration - EN "Phase 2" - Bay Area AQMD Air District, Annual

3.10 Grade upland fill - 2021

Mitigated 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					0.0658	0.0000	0.0658	7.1000e-003	0.0000	7.1000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0170	0.2178	0.0674	2.5000e-004		6.9300e-003	6.9300e-003		6.3900e-003	6.3900e-003	0.0000	21.5195	21.5195	6.8400e-003	0.0000	21.6904
Total	0.0170	0.2178	0.0674	2.5000e-004	0.0658	6.9300e-003	0.0727	7.1000e-003	6.3900e-003	0.0135	0.0000	21.5195	21.5195	6.8400e-003	0.0000	21.6904

Mitigated 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	5.0000e-004	3.4000e-004	3.6300e-003	1.0000e-005	1.2800e-003	1.0000e-005	1.2900e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.0821	1.0821	2.0000e-005	0.0000	1.0828
Total	5.0000e-004	3.4000e-004	3.6300e-003	1.0000e-005	1.2800e-003	1.0000e-005	1.2900e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.0821	1.0821	2.0000e-005	0.0000	1.0828

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3.11 Excavate levee1 - 2020

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	2.2000e-003	0.0217	0.0294	5.0000e-005		1.0500e-003	1.0500e-003		9.7000e-004	9.7000e-004	0.0000	4.0833	4.0833	1.3200e-003	0.0000	4.1163
Total	2.2000e-003	0.0217	0.0294	5.0000e-005		1.0500e-003	1.0500e-003		9.7000e-004	9.7000e-004	0.0000	4.0833	4.0833	1.3200e-003	0.0000	4.1163

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	1.8900e-003	0.0970	0.0143	1.1000e-004	2.3000e-004	7.0000e-005	3.0000e-004	7.0000e-005	6.0000e-005	1.3000e-004	0.0000	10.4508	10.4508	1.5300e-003	0.0000	10.4889
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	2.6000e-004	2.6500e-003	1.0000e-005	8.5000e-004	1.0000e-005	8.6000e-004	2.3000e-004	1.0000e-005	2.3000e-004	0.0000	0.7477	0.7477	2.0000e-005	0.0000	0.7481
Total	2.2500e-003	0.0972	0.0169	1.2000e-004	1.0800e-003	8.0000e-005	1.1600e-003	3.0000e-004	7.0000e-005	3.6000e-004	0.0000	11.1984	11.1984	1.5500e-003	0.0000	11.2370

Lower Walnut Creek Restoration - EN "Phase 2" - Bay Area AQMD Air District, Annual

3.11 Excavate levee1 - 2020

Mitigated 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	2.2000e-003	0.0217	0.0294	5.0000e-005		1.0500e-003	1.0500e-003		9.7000e-004	9.7000e-004	0.0000	4.0833	4.0833	1.3200e-003	0.0000	4.1163
Total	2.2000e-003	0.0217	0.0294	5.0000e-005		1.0500e-003	1.0500e-003		9.7000e-004	9.7000e-004	0.0000	4.0833	4.0833	1.3200e-003	0.0000	4.1163

Mitigated 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	1.8900e-003	0.0970	0.0143	1.1000e-004	2.3000e-004	7.0000e-005	3.0000e-004	7.0000e-005	6.0000e-005	1.3000e-004	0.0000	10.4508	10.4508	1.5300e-003	0.0000	10.4889
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	2.6000e-004	2.6500e-003	1.0000e-005	8.5000e-004	1.0000e-005	8.6000e-004	2.3000e-004	1.0000e-005	2.3000e-004	0.0000	0.7477	0.7477	2.0000e-005	0.0000	0.7481
Total	2.2500e-003	0.0972	0.0169	1.2000e-004	1.0800e-003	8.0000e-005	1.1600e-003	3.0000e-004	7.0000e-005	3.6000e-004	0.0000	11.1984	11.1984	1.5500e-003	0.0000	11.2370

Lower Walnut Creek Restoration - EN "Phase 2" - Bay Area AQMD Air District, Annual

3.12 Excavate tidal channels1 - 2020

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	1.8400e-003	0.0181	0.0245	4.0000e-005		8.8000e-004	8.8000e-004		8.1000e-004	8.1000e-004	0.0000	3.4028	3.4028	1.1000e-003	0.0000	3.4303
Total	1.8400e-003	0.0181	0.0245	4.0000e-005		8.8000e-004	8.8000e-004		8.1000e-004	8.1000e-004	0.0000	3.4028	3.4028	1.1000e-003	0.0000	3.4303

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	2.1200e-003	0.1083	0.0159	1.2000e-004	2.6000e-004	7.0000e-005	3.3000e-004	7.0000e-005	7.0000e-005	1.4000e-004	0.0000	11.6735	11.6735	1.7000e-003	0.0000	11.7161
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	4.0000e-004	2.8000e-004	2.9500e-003	1.0000e-005	9.5000e-004	1.0000e-005	9.5000e-004	2.5000e-004	1.0000e-005	2.6000e-004	0.0000	0.8307	0.8307	2.0000e-005	0.0000	0.8312
Total	2.5200e-003	0.1086	0.0189	1.3000e-004	1.2100e-003	8.0000e-005	1.2800e-003	3.2000e-004	8.0000e-005	4.0000e-004	0.0000	12.5043	12.5043	1.7200e-003	0.0000	12.5473

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3.12 Excavate tidal channels1 - 2020

Mitigated 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	1.8400e-003	0.0181	0.0245	4.0000e-005		8.8000e-004	8.8000e-004		8.1000e-004	8.1000e-004	0.0000	3.4027	3.4027	1.1000e-003	0.0000	3.4303
Total	1.8400e-003	0.0181	0.0245	4.0000e-005		8.8000e-004	8.8000e-004		8.1000e-004	8.1000e-004	0.0000	3.4027	3.4027	1.1000e-003	0.0000	3.4303

Mitigated 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	2.1200e-003	0.1083	0.0159	1.2000e-004	2.6000e-004	7.0000e-005	3.3000e-004	7.0000e-005	7.0000e-005	1.4000e-004	0.0000	11.6735	11.6735	1.7000e-003	0.0000	11.7161
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	4.0000e-004	2.8000e-004	2.9500e-003	1.0000e-005	9.5000e-004	1.0000e-005	9.5000e-004	2.5000e-004	1.0000e-005	2.6000e-004	0.0000	0.8307	0.8307	2.0000e-005	0.0000	0.8312
Total	2.5200e-003	0.1086	0.0189	1.3000e-004	1.2100e-003	8.0000e-005	1.2800e-003	3.2000e-004	8.0000e-005	4.0000e-004	0.0000	12.5043	12.5043	1.7200e-003	0.0000	12.5473

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3.13 Pipeline1 - 2020

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	0.0236	0.2005	0.2230	3.8000e-004		0.0113	0.0113		0.0112	0.0112	0.0000	32.9273	32.9273	3.7900e-003	0.0000	33.0221
Total	0.0236	0.2005	0.2230	3.8000e-004		0.0113	0.0113		0.0112	0.0112	0.0000	32.9273	32.9273	3.7900e-003	0.0000	33.0221

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	1.1000e-004	3.3100e-003	8.3000e-004	1.0000e-005	1.8000e-004	2.0000e-005	1.9000e-004	5.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.7249	0.7249	4.0000e-005	0.0000	0.7259
Worker	6.0000e-004	4.3000e-004	4.4200e-003	1.0000e-005	1.4200e-003	1.0000e-005	1.4300e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.2461	1.2461	3.0000e-005	0.0000	1.2469
Total	7.1000e-004	3.7400e-003	5.2500e-003	2.0000e-005	1.6000e-003	3.0000e-005	1.6200e-003	4.3000e-004	2.0000e-005	4.6000e-004	0.0000	1.9710	1.9710	7.0000e-005	0.0000	1.9728

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3.13 Pipeline1 - 2020

Mitigated 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	0.0236	0.2005	0.2230	3.8000e-004		0.0113	0.0113		0.0112	0.0112	0.0000	32.9272	32.9272	3.7900e-003	0.0000	33.0221
Total	0.0236	0.2005	0.2230	3.8000e-004		0.0113	0.0113		0.0112	0.0112	0.0000	32.9272	32.9272	3.7900e-003	0.0000	33.0221

Mitigated 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	1.1000e-004	3.3100e-003	8.3000e-004	1.0000e-005	1.8000e-004	2.0000e-005	1.9000e-004	5.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.7249	0.7249	4.0000e-005	0.0000	0.7259
Worker	6.0000e-004	4.3000e-004	4.4200e-003	1.0000e-005	1.4200e-003	1.0000e-005	1.4300e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.2461	1.2461	3.0000e-005	0.0000	1.2469
Total	7.1000e-004	3.7400e-003	5.2500e-003	2.0000e-005	1.6000e-003	3.0000e-005	1.6200e-003	4.3000e-004	2.0000e-005	4.6000e-004	0.0000	1.9710	1.9710	7.0000e-005	0.0000	1.9728

Lower Walnut Creek Restoration - EN "Phase 2" - Bay Area AQMD Air District, Annual

3.14 Isolate - 2020

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	1.2000e-004	1.2100e-003	1.6300e-003	0.0000		6.0000e-005	6.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.2269	0.2269	7.0000e-005	0.0000	0.2287
Total	1.2000e-004	1.2100e-003	1.6300e-003	0.0000		6.0000e-005	6.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.2269	0.2269	7.0000e-005	0.0000	0.2287

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	4.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0104	0.0104	0.0000	0.0000	0.0104
Total	0.0000	0.0000	4.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0104	0.0104	0.0000	0.0000	0.0104

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3.14 Isolate - 2020

Mitigated 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	1.2000e-004	1.2100e-003	1.6300e-003	0.0000		6.0000e-005	6.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.2269	0.2269	7.0000e-005	0.0000	0.2287
Total	1.2000e-004	1.2100e-003	1.6300e-003	0.0000		6.0000e-005	6.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.2269	0.2269	7.0000e-005	0.0000	0.2287

Mitigated 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	4.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0104	0.0104	0.0000	0.0000	0.0104
Total	0.0000	0.0000	4.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0104	0.0104	0.0000	0.0000	0.0104

Lower Walnut Creek Restoration - EN "Phase 2" - Bay Area AQMD Air District, Annual

3.15 Excavate marsh pond - 2020

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	8.9000e-003	0.0876	0.1187	1.9000e-004		4.2400e-003	4.2400e-003		3.9000e-003	3.9000e-003	0.0000	16.4750	16.4750	5.3300e-003	0.0000	16.6082
Total	8.9000e-003	0.0876	0.1187	1.9000e-004		4.2400e-003	4.2400e-003		3.9000e-003	3.9000e-003	0.0000	16.4750	16.4750	5.3300e-003	0.0000	16.6082

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	0.0111	0.5706	0.0840	6.4000e-004	1.3600e-003	3.9000e-004	1.7600e-003	3.9000e-004	3.7000e-004	7.6000e-004	0.0000	61.4871	61.4871	8.9700e-003	0.0000	61.7115
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	1.6500e-003	1.1800e-003	0.0122	4.0000e-005	3.9400e-003	3.0000e-005	3.9600e-003	1.0500e-003	2.0000e-005	1.0700e-003	0.0000	3.4476	3.4476	8.0000e-005	0.0000	3.4496
Total	0.0128	0.5718	0.0962	6.8000e-004	5.3000e-003	4.2000e-004	5.7200e-003	1.4400e-003	3.9000e-004	1.8300e-003	0.0000	64.9346	64.9346	9.0500e-003	0.0000	65.1611

Lower Walnut Creek Restoration - EN "Phase 2" - Bay Area AQMD Air District, Annual

3.15 Excavate marsh pond - 2020

Mitigated 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	8.9000e-003	0.0876	0.1187	1.9000e-004		4.2400e-003	4.2400e-003		3.9000e-003	3.9000e-003	0.0000	16.4750	16.4750	5.3300e-003	0.0000	16.6082
Total	8.9000e-003	0.0876	0.1187	1.9000e-004		4.2400e-003	4.2400e-003		3.9000e-003	3.9000e-003	0.0000	16.4750	16.4750	5.3300e-003	0.0000	16.6082

Mitigated 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	0.0111	0.5706	0.0840	6.4000e-004	1.3600e-003	3.9000e-004	1.7600e-003	3.9000e-004	3.7000e-004	7.6000e-004	0.0000	61.4871	61.4871	8.9700e-003	0.0000	61.7115
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	1.6500e-003	1.1800e-003	0.0122	4.0000e-005	3.9400e-003	3.0000e-005	3.9600e-003	1.0500e-003	2.0000e-005	1.0700e-003	0.0000	3.4476	3.4476	8.0000e-005	0.0000	3.4496
Total	0.0128	0.5718	0.0962	6.8000e-004	5.3000e-003	4.2000e-004	5.7200e-003	1.4400e-003	3.9000e-004	1.8300e-003	0.0000	64.9346	64.9346	9.0500e-003	0.0000	65.1611

Lower Walnut Creek Restoration - EN "Phase 2" - Bay Area AQMD Air District, Annual

3.16 Install culverts - 2020

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	1.3100e-003	0.0148	0.0134	4.0000e-005		5.5000e-004	5.5000e-004		5.0000e-004	5.0000e-004	0.0000	3.1977	3.1977	1.0300e-003	0.0000	3.2235
Total	1.3100e-003	0.0148	0.0134	4.0000e-005		5.5000e-004	5.5000e-004		5.0000e-004	5.0000e-004	0.0000	3.1977	3.1977	1.0300e-003	0.0000	3.2235

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	5.0000e-005	4.0000e-005	3.7000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1038	0.1038	0.0000	0.0000	0.1039
Total	5.0000e-005	4.0000e-005	3.7000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1038	0.1038	0.0000	0.0000	0.1039

Lower Walnut Creek Restoration - EN "Phase 2" - Bay Area AQMD Air District, Annual

3.16 Install culverts - 2020

Mitigated 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	1.3100e-003	0.0148	0.0134	4.0000e-005		5.5000e-004	5.5000e-004		5.0000e-004	5.0000e-004	0.0000	3.1977	3.1977	1.0300e-003	0.0000	3.2235
Total	1.3100e-003	0.0148	0.0134	4.0000e-005		5.5000e-004	5.5000e-004		5.0000e-004	5.0000e-004	0.0000	3.1977	3.1977	1.0300e-003	0.0000	3.2235

Mitigated 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	5.0000e-005	4.0000e-005	3.7000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1038	0.1038	0.0000	0.0000	0.1039
Total	5.0000e-005	4.0000e-005	3.7000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1038	0.1038	0.0000	0.0000	0.1039

Lower Walnut Creek Restoration - EN "Phase 2" - Bay Area AQMD Air District, Annual

3.17 Excavate levee2 - 2020

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	1.7900e-003	0.0176	0.0239	4.0000e-005		8.5000e-004	8.5000e-004		7.9000e-004	7.9000e-004	0.0000	3.3177	3.3177	1.0700e-003	0.0000	3.3445
Total	1.7900e-003	0.0176	0.0239	4.0000e-005		8.5000e-004	8.5000e-004		7.9000e-004	7.9000e-004	0.0000	3.3177	3.3177	1.0700e-003	0.0000	3.3445

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	2.0200e-003	0.1035	0.0152	1.2000e-004	2.5000e-004	7.0000e-005	3.2000e-004	7.0000e-005	7.0000e-005	1.4000e-004	0.0000	11.1510	11.1510	1.6300e-003	0.0000	11.1917
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	3.9000e-004	2.8000e-004	2.8700e-003	1.0000e-005	9.2000e-004	1.0000e-005	9.3000e-004	2.5000e-004	1.0000e-005	2.5000e-004	0.0000	0.8100	0.8100	2.0000e-005	0.0000	0.8105
Total	2.4100e-003	0.1038	0.0181	1.3000e-004	1.1700e-003	8.0000e-005	1.2500e-003	3.2000e-004	8.0000e-005	3.9000e-004	0.0000	11.9609	11.9609	1.6500e-003	0.0000	12.0021

Lower Walnut Creek Restoration - EN "Phase 2" - Bay Area AQMD Air District, Annual

3.17 Excavate levee2 - 2020

Mitigated 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	1.7900e-003	0.0176	0.0239	4.0000e-005		8.5000e-004	8.5000e-004		7.9000e-004	7.9000e-004	0.0000	3.3177	3.3177	1.0700e-003	0.0000	3.3445
Total	1.7900e-003	0.0176	0.0239	4.0000e-005		8.5000e-004	8.5000e-004		7.9000e-004	7.9000e-004	0.0000	3.3177	3.3177	1.0700e-003	0.0000	3.3445

Mitigated 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	2.0200e-003	0.1035	0.0152	1.2000e-004	2.5000e-004	7.0000e-005	3.2000e-004	7.0000e-005	7.0000e-005	1.4000e-004	0.0000	11.1510	11.1510	1.6300e-003	0.0000	11.1917
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	3.9000e-004	2.8000e-004	2.8700e-003	1.0000e-005	9.2000e-004	1.0000e-005	9.3000e-004	2.5000e-004	1.0000e-005	2.5000e-004	0.0000	0.8100	0.8100	2.0000e-005	0.0000	0.8105
Total	2.4100e-003	0.1038	0.0181	1.3000e-004	1.1700e-003	8.0000e-005	1.2500e-003	3.2000e-004	8.0000e-005	3.9000e-004	0.0000	11.9609	11.9609	1.6500e-003	0.0000	12.0021

Lower Walnut Creek Restoration - EN "Phase 2" - Bay Area AQMD Air District, Annual

3.18 Excavate tidal channels2 - 2020

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	1.0100e-003	9.9500e-003	0.0135	2.0000e-005		4.8000e-004	4.8000e-004		4.4000e-004	4.4000e-004	0.0000	1.8715	1.8715	6.1000e-004	0.0000	1.8866
Total	1.0100e-003	9.9500e-003	0.0135	2.0000e-005		4.8000e-004	4.8000e-004		4.4000e-004	4.4000e-004	0.0000	1.8715	1.8715	6.1000e-004	0.0000	1.8866

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	1.1400e-003	0.0582	8.5600e-003	6.0000e-005	1.4000e-004	4.0000e-005	1.8000e-004	4.0000e-005	4.0000e-005	8.0000e-005	0.0000	6.2705	6.2705	9.2000e-004	0.0000	6.2933
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	1.6000e-004	1.6200e-003	1.0000e-005	5.2000e-004	0.0000	5.3000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4569	0.4569	1.0000e-005	0.0000	0.4572
Total	1.3600e-003	0.0584	0.0102	7.0000e-005	6.6000e-004	4.0000e-005	7.1000e-004	1.8000e-004	4.0000e-005	2.2000e-004	0.0000	6.7274	6.7274	9.3000e-004	0.0000	6.7505

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3.18 Excavate tidal channels2 - 2020

Mitigated 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	1.0100e-003	9.9500e-003	0.0135	2.0000e-005		4.8000e-004	4.8000e-004		4.4000e-004	4.4000e-004	0.0000	1.8715	1.8715	6.1000e-004	0.0000	1.8866
Total	1.0100e-003	9.9500e-003	0.0135	2.0000e-005		4.8000e-004	4.8000e-004		4.4000e-004	4.4000e-004	0.0000	1.8715	1.8715	6.1000e-004	0.0000	1.8866

Mitigated 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	1.1400e-003	0.0582	8.5600e-003	6.0000e-005	1.4000e-004	4.0000e-005	1.8000e-004	4.0000e-005	4.0000e-005	8.0000e-005	0.0000	6.2705	6.2705	9.2000e-004	0.0000	6.2933
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	1.6000e-004	1.6200e-003	1.0000e-005	5.2000e-004	0.0000	5.3000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4569	0.4569	1.0000e-005	0.0000	0.4572
Total	1.3600e-003	0.0584	0.0102	7.0000e-005	6.6000e-004	4.0000e-005	7.1000e-004	1.8000e-004	4.0000e-005	2.2000e-004	0.0000	6.7274	6.7274	9.3000e-004	0.0000	6.7505

Lower Walnut Creek Restoration - EN "Phase 2" - Bay Area AQMD Air District, Annual

3.19 Excavate berms - 2020

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	4.9600e-003	0.0588	0.0373	8.0000e-005		2.2900e-003	2.2900e-003		2.1100e-003	2.1100e-003	0.0000	6.6543	6.6543	2.1500e-003	0.0000	6.7081
Total	4.9600e-003	0.0588	0.0373	8.0000e-005		2.2900e-003	2.2900e-003		2.1100e-003	2.1100e-003	0.0000	6.6543	6.6543	2.1500e-003	0.0000	6.7081

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	5.0000e-005	4.0000e-005	3.7000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1038	0.1038	0.0000	0.0000	0.1039
Total	5.0000e-005	4.0000e-005	3.7000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1038	0.1038	0.0000	0.0000	0.1039

Lower Walnut Creek Restoration - EN "Phase 2" - Bay Area AQMD Air District, Annual

3.19 Excavate berms - 2020

Mitigated 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	4.9600e-003	0.0588	0.0373	8.0000e-005		2.2900e-003	2.2900e-003		2.1100e-003	2.1100e-003	0.0000	6.6543	6.6543	2.1500e-003	0.0000	6.7081
Total	4.9600e-003	0.0588	0.0373	8.0000e-005		2.2900e-003	2.2900e-003		2.1100e-003	2.1100e-003	0.0000	6.6543	6.6543	2.1500e-003	0.0000	6.7081

Mitigated 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	5.0000e-005	4.0000e-005	3.7000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1038	0.1038	0.0000	0.0000	0.1039
Total	5.0000e-005	4.0000e-005	3.7000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1038	0.1038	0.0000	0.0000	0.1039

Lower Walnut Creek Restoration - EN "Phase 2" - Bay Area AQMD Air District, Annual

3.20 Breach - 2020

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	2.4500e-003	0.0241	0.0327	5.0000e-005		1.1700e-003	1.1700e-003		1.0800e-003	1.0800e-003	0.0000	4.5370	4.5370	1.4700e-003	0.0000	4.5737
Total	2.4500e-003	0.0241	0.0327	5.0000e-005		1.1700e-003	1.1700e-003		1.0800e-003	1.0800e-003	0.0000	4.5370	4.5370	1.4700e-003	0.0000	4.5737

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	1.0000e-004	7.0000e-005	7.4000e-004	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.2077	0.2077	1.0000e-005	0.0000	0.2078
Total	1.0000e-004	7.0000e-005	7.4000e-004	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.2077	0.2077	1.0000e-005	0.0000	0.2078

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3.20 Breach - 2020

Mitigated 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	2.4500e-003	0.0241	0.0327	5.0000e-005		1.1700e-003	1.1700e-003		1.0800e-003	1.0800e-003	0.0000	4.5370	4.5370	1.4700e-003	0.0000	4.5737
Total	2.4500e-003	0.0241	0.0327	5.0000e-005		1.1700e-003	1.1700e-003		1.0800e-003	1.0800e-003	0.0000	4.5370	4.5370	1.4700e-003	0.0000	4.5737

Mitigated 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	1.0000e-004	7.0000e-005	7.4000e-004	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.2077	0.2077	1.0000e-005	0.0000	0.2078
Total	1.0000e-004	7.0000e-005	7.4000e-004	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.2077	0.2077	1.0000e-005	0.0000	0.2078

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3.21 Pipeline2 - 2020

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	0.0236	0.2005	0.2230	3.8000e-004		0.0113	0.0113		0.0112	0.0112	0.0000	32.9273	32.9273	3.7900e-003	0.0000	33.0221
Total	0.0236	0.2005	0.2230	3.8000e-004		0.0113	0.0113		0.0112	0.0112	0.0000	32.9273	32.9273	3.7900e-003	0.0000	33.0221

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	1.1000e-004	3.3100e-003	8.3000e-004	1.0000e-005	1.8000e-004	2.0000e-005	1.9000e-004	5.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.7249	0.7249	4.0000e-005	0.0000	0.7259
Worker	6.0000e-004	4.3000e-004	4.4200e-003	1.0000e-005	1.4200e-003	1.0000e-005	1.4300e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.2461	1.2461	3.0000e-005	0.0000	1.2469
Total	7.1000e-004	3.7400e-003	5.2500e-003	2.0000e-005	1.6000e-003	3.0000e-005	1.6200e-003	4.3000e-004	2.0000e-005	4.6000e-004	0.0000	1.9710	1.9710	7.0000e-005	0.0000	1.9728

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Mitigated 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	0.0236	0.2005	0.2230	3.8000e-004		0.0113	0.0113		0.0112	0.0112	0.0000	32.9272	32.9272	3.7900e-003	0.0000	33.0221
Total	0.0236	0.2005	0.2230	3.8000e-004		0.0113	0.0113		0.0112	0.0112	0.0000	32.9272	32.9272	3.7900e-003	0.0000	33.0221

Mitigated 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	1.1000e-004	3.3100e-003	8.3000e-004	1.0000e-005	1.8000e-004	2.0000e-005	1.9000e-004	5.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.7249	0.7249	4.0000e-005	0.0000	0.7259
Worker	6.0000e-004	4.3000e-004	4.4200e-003	1.0000e-005	1.4200e-003	1.0000e-005	1.4300e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.2461	1.2461	3.0000e-005	0.0000	1.2469
Total	7.1000e-004	3.7400e-003	5.2500e-003	2.0000e-005	1.6000e-003	3.0000e-005	1.6200e-003	4.3000e-004	2.0000e-005	4.6000e-004	0.0000	1.9710	1.9710	7.0000e-005	0.0000	1.9728

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3.22 Fencing - 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
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

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	4.0000e-005	1.4000e-003	3.5000e-004	0.0000	8.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	3.0000e-005	0.0000	0.3351	0.3351	2.0000e-005	0.0000	0.3355
Worker	6.0000e-005	4.0000e-005	4.7000e-004	0.0000	1.7000e-004	0.0000	1.7000e-004	4.0000e-005	0.0000	5.0000e-005	0.0000	0.1403	0.1403	0.0000	0.0000	0.1404
Total	1.0000e-004	1.4400e-003	8.2000e-004	0.0000	2.5000e-004	0.0000	2.6000e-004	6.0000e-005	0.0000	8.0000e-005	0.0000	0.4754	0.4754	2.0000e-005	0.0000	0.4759

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3.22 Fencing - 2021

Mitigated 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
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

Mitigated 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	4.0000e-005	1.4000e-003	3.5000e-004	0.0000	8.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	3.0000e-005	0.0000	0.3351	0.3351	2.0000e-005	0.0000	0.3355
Worker	6.0000e-005	4.0000e-005	4.7000e-004	0.0000	1.7000e-004	0.0000	1.7000e-004	4.0000e-005	0.0000	5.0000e-005	0.0000	0.1403	0.1403	0.0000	0.0000	0.1404
Total	1.0000e-004	1.4400e-003	8.2000e-004	0.0000	2.5000e-004	0.0000	2.6000e-004	6.0000e-005	0.0000	8.0000e-005	0.0000	0.4754	0.4754	2.0000e-005	0.0000	0.4759

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3.23 Access Road - 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	2.7800e-003	0.0290	0.0133	3.0000e-005		1.4600e-003	1.4600e-003		1.3500e-003	1.3500e-003	0.0000	2.2074	2.2074	7.1000e-004	0.0000	2.2253
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.7800e-003	0.0290	0.0133	3.0000e-005		1.4600e-003	1.4600e-003		1.3500e-003	1.3500e-003	0.0000	2.2074	2.2074	7.1000e-004	0.0000	2.2253

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	4.1000e-004	0.0219	3.1700e-003	2.0000e-005	5.0000e-005	1.0000e-005	7.0000e-005	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	2.4147	2.4147	3.4000e-004	0.0000	2.4231
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	1.2000e-004	9.0000e-005	9.1000e-004	0.0000	3.2000e-004	0.0000	3.2000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2705	0.2705	1.0000e-005	0.0000	0.2707
Total	5.3000e-004	0.0220	4.0800e-003	2.0000e-005	3.7000e-004	1.0000e-005	3.9000e-004	1.1000e-004	1.0000e-005	1.2000e-004	0.0000	2.6852	2.6852	3.5000e-004	0.0000	2.6938

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3.23 Access Road - 2021

Mitigated 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	2.7800e-003	0.0290	0.0133	3.0000e-005		1.4600e-003	1.4600e-003		1.3500e-003	1.3500e-003	0.0000	2.2074	2.2074	7.1000e-004	0.0000	2.2253
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.7800e-003	0.0290	0.0133	3.0000e-005		1.4600e-003	1.4600e-003		1.3500e-003	1.3500e-003	0.0000	2.2074	2.2074	7.1000e-004	0.0000	2.2253

Mitigated 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	4.1000e-004	0.0219	3.1700e-003	2.0000e-005	5.0000e-005	1.0000e-005	7.0000e-005	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	2.4147	2.4147	3.4000e-004	0.0000	2.4231
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	1.2000e-004	9.0000e-005	9.1000e-004	0.0000	3.2000e-004	0.0000	3.2000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2705	0.2705	1.0000e-005	0.0000	0.2707
Total	5.3000e-004	0.0220	4.0800e-003	2.0000e-005	3.7000e-004	1.0000e-005	3.9000e-004	1.1000e-004	1.0000e-005	1.2000e-004	0.0000	2.6852	2.6852	3.5000e-004	0.0000	2.6938

4.0 Operational Detail - Mobile

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4.1 Mitigation Measures Mobile

	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					
Mitigated	0.7707	3.7716	8.9083	0.0306	2.5863	0.0285	2.6148	0.6942	0.0267	0.7209	0.0000	2,810.6274	2,810.6274	0.1054	0.0000	2,813.2635
Unmitigated	0.7707	3.7716	8.9083	0.0306	2.5863	0.0285	2.6148	0.6942	0.0267	0.7209	0.0000	2,810.6274	2,810.6274	0.1054	0.0000	2,813.2635

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	761.67	9,168.25	6746.22	6,948,647	6,948,647
Total	761.67	9,168.25	6,746.22	6,948,647	6,948,647

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	14.70	6.60	6.60	33.00	48.00	19.00	66	28	6

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.575198	0.040076	0.193827	0.113296	0.016988	0.005361	0.017552	0.025197	0.002581	0.002349	0.005904	0.000881	0.000789

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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	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					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	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
NaturalGas Unmitigated	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

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

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	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					
Mitigated	0.2031	3.0000e-005	3.7200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.2000e-003	7.2000e-003	2.0000e-005	0.0000	7.6800e-003
Unmitigated	0.2031	3.0000e-005	3.7200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.2000e-003	7.2000e-003	2.0000e-005	0.0000	7.6800e-003

6.2 Area by SubCategory

Unmitigated

	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
SubCategory	tons/yr										MT/yr					
Architectural Coating	4.4500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1983					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.5000e-004	3.0000e-005	3.7200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.2000e-003	7.2000e-003	2.0000e-005	0.0000	7.6800e-003
Total	0.2031	3.0000e-005	3.7200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.2000e-003	7.2000e-003	2.0000e-005	0.0000	7.6800e-003

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6.2 Area by SubCategory

Mitigated

	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
SubCategory	tons/yr										MT/yr					
Architectural Coating	4.4500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1983					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.5000e-004	3.0000e-005	3.7200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.2000e-003	7.2000e-003	2.0000e-005	0.0000	7.6800e-003
Total	0.2031	3.0000e-005	3.7200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.2000e-003	7.2000e-003	2.0000e-005	0.0000	7.6800e-003

7.0 Water Detail

7.1 Mitigation Measures Water

Lower Walnut Creek Restoration - EN "Phase 2" - Bay Area AQMD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	488.9013	0.0221	4.5700e-003	490.8170
Unmitigated	488.9013	0.0221	4.5700e-003	490.8170

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 480.167	488.9013	0.0221	4.5700e-003	490.8170
Total		488.9013	0.0221	4.5700e-003	490.8170

Lower Walnut Creek Restoration - EN "Phase 2" - Bay Area AQMD Air District, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 480.167	488.9013	0.0221	4.5700e-003	490.8170
Total		488.9013	0.0221	4.5700e-003	490.8170

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	7.0357	0.4158	0.0000	17.4306
Unmitigated	7.0357	0.4158	0.0000	17.4306

Lower Walnut Creek Restoration - EN "Phase 2" - Bay Area AQMD Air District, Annual

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	34.66	7.0357	0.4158	0.0000	17.4306
Total		7.0357	0.4158	0.0000	17.4306

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	34.66	7.0357	0.4158	0.0000	17.4306
Total		7.0357	0.4158	0.0000	17.4306

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Lower Walnut Creek Restoration - EN "Phase 2" - Bay Area AQMD Air District, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Lower Walnut Creek Restoration - North Reach Sand Pile - Bay Area AQMD Air District, Annual

Lower Walnut Creek Restoration - North Reach Sand Pile
Bay Area AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	403.00	Acre	403.00	17,554,680.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	64
Climate Zone	4			Operational Year	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Lower Walnut Creek Restoration - North Reach Sand Pile - Bay Area AQMD Air District, Annual

Project Characteristics - Additional construction associated to sand pile movement from North Reach

Land Use - Construction only for sand pile removal from North Reach

Construction Phase - days based on max equipment in phase

Off-road Equipment - from ART_Equipment_Details.xlsx

Off-road Equipment - from ART_Equipment_Details.xlsx

Off-road Equipment - from ART_Equipment_Details.xlsx

Off-road Equipment - from ART_Equipment_Details.xlsx

Off-road Equipment - from ART_Equipment_Details.xlsx

Off-road Equipment - from ART_Equipment_Details.xlsx

Trips and VMT - Haul trip is project specific = 4 miles one way

Vendor trips for water trucks, RTV, and street sweeps is project specific. Assume not phased

Grading -

Energy Use -

Construction Off-road Equipment Mitigation - NA

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	500.00	3.00
tblConstructionPhase	NumDays	775.00	28.00
tblConstructionPhase	NumDays	775.00	3.00
tblConstructionPhase	NumDays	550.00	2.00
tblConstructionPhase	NumDays	300.00	2.00
tblConstructionPhase	NumDays	300.00	9.00
tblOffRoadEquipment	HorsePower	158.00	347.00
tblOffRoadEquipment	HorsePower	158.00	347.00
tblOffRoadEquipment	HorsePower	247.00	182.00
tblOffRoadEquipment	HorsePower	247.00	182.00
tblOffRoadEquipment	HorsePower	97.00	88.00

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tblOffRoadEquipment	HorsePower	158.00	347.00
tblOffRoadEquipment	HorsePower	84.00	34.00
tblOffRoadEquipment	HorsePower	84.00	34.00
tblOffRoadEquipment	HorsePower	84.00	34.00
tblOffRoadEquipment	HorsePower	84.00	34.00
tblOffRoadEquipment	HorsePower	84.00	34.00
tblOffRoadEquipment	HorsePower	84.00	34.00
tblOffRoadEquipment	HorsePower	187.00	250.00
tblOffRoadEquipment	HorsePower	8.00	153.00
tblOffRoadEquipment	HorsePower	97.00	88.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	UsageHours	8.00	5.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	5.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripLength	20.00	4.00
tblTripsAndVMT	HaulingTripLength	20.00	4.00
tblTripsAndVMT	HaulingTripLength	20.00	4.00
tblTripsAndVMT	HaulingTripLength	20.00	4.00
tblTripsAndVMT	HaulingTripLength	20.00	4.00
tblTripsAndVMT	HaulingTripLength	20.00	4.00
tblTripsAndVMT	HaulingTripNumber	0.00	142.00
tblTripsAndVMT	HaulingTripNumber	0.00	641.00

Lower Walnut Creek Restoration - North Reach Sand Pile - Bay Area AQMD Air District, Annual

tblTripsAndVMT	HaulingTripNumber	0.00	6,550.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	28.00
tblTripsAndVMT	VendorTripNumber	0.00	130.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	15.00
tblTripsAndVMT	WorkerTripNumber	13.00	15.00
tblTripsAndVMT	WorkerTripNumber	15.00	18.00
tblTripsAndVMT	WorkerTripNumber	13.00	15.00
tblTripsAndVMT	WorkerTripNumber	13.00	15.00
tblTripsAndVMT	WorkerTripNumber	8.00	9.00
tblTripsAndVMT	WorkerTripNumber	13.00	15.00

2.0 Emissions Summary

Lower Walnut Creek Restoration - North Reach Sand Pile - Bay Area AQMD Air District, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	5-1-2020	7-31-2020	1.2620	1.2620
		Highest	1.2620	1.2620

2.2 Overall Operational

Unmitigated Operational

	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					
Area	0.2031	3.0000e-005	3.7200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.2000e-003	7.2000e-003	2.0000e-005	0.0000	7.6800e-003
Energy	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
Mobile	0.7707	3.7716	8.9083	0.0306	2.5863	0.0285	2.6148	0.6942	0.0267	0.7209	0.0000	2,810.6274	2,810.6274	0.1054	0.0000	2,813.2635
Waste						0.0000	0.0000		0.0000	0.0000	7.0357	0.0000	7.0357	0.4158	0.0000	17.4306
Water						0.0000	0.0000		0.0000	0.0000	0.0000	488.9013	488.9013	0.0221	4.5700e-003	490.8170
Total	0.9739	3.7716	8.9120	0.0306	2.5863	0.0285	2.6148	0.6942	0.0267	0.7209	7.0357	3,299.5359	3,306.5716	0.5434	4.5700e-003	3,321.5187

Lower Walnut Creek Restoration - North Reach Sand Pile - Bay Area AQMD Air District, Annual

2.2 Overall Operational

Mitigated Operational

	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					
Area	0.2031	3.0000e-005	3.7200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.2000e-003	7.2000e-003	2.0000e-005	0.0000	7.6800e-003
Energy	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
Mobile	0.7707	3.7716	8.9083	0.0306	2.5863	0.0285	2.6148	0.6942	0.0267	0.7209	0.0000	2,810.6274	2,810.6274	0.1054	0.0000	2,813.2635
Waste						0.0000	0.0000		0.0000	0.0000	7.0357	0.0000	7.0357	0.4158	0.0000	17.4306
Water						0.0000	0.0000		0.0000	0.0000	0.0000	488.9013	488.9013	0.0221	4.5700e-003	490.8170
Total	0.9739	3.7716	8.9120	0.0306	2.5863	0.0285	2.6148	0.6942	0.0267	0.7209	7.0357	3,299.5359	3,306.5716	0.5434	4.5700e-003	3,321.5187

	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
Percent Reduction	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

Lower Walnut Creek Restoration - North Reach Sand Pile - Bay Area AQMD Air District, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Remove and Abandon Infrastructure & Debris	Demolition	5/1/2020	5/5/2020	5	3	
2	Mobilization	Site Preparation	5/1/2020	5/4/2020	5	2	
3	Clearing and Stripping	Site Preparation	5/1/2020	5/13/2020	5	9	
4	Grade Excavation and Haul Offsite	Grading	5/1/2020	6/9/2020	5	28	
5	Erosion Control	Grading	5/1/2020	5/5/2020	5	3	
6	Access Road Improvements	Paving	5/1/2020	5/4/2020	5	2	

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: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Lower Walnut Creek Restoration - North Reach Sand Pile - Bay Area AQMD Air District, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Remove and Abandon Infrastructure & Debris	Excavators	1	5.00	347	0.38
Remove and Abandon Infrastructure & Debris	Generator Sets	1	8.00	34	0.74
Remove and Abandon Infrastructure & Debris	Skid Steer Loaders	1	8.00	65	0.37
Remove and Abandon Infrastructure & Debris	Tractors/Loaders/Backhoes	2	7.00	88	0.37
Mobilization	Generator Sets	1	8.00	34	0.74
Mobilization	Rubber Tired Loaders	1	8.00	203	0.36
Mobilization	Skid Steer Loaders	2	8.00	65	0.37
Mobilization	Tractors/Loaders/Backhoes	2	8.00	88	0.37
Clearing and Stripping	Excavators	1	8.00	347	0.38
Clearing and Stripping	Generator Sets	1	8.00	34	0.74
Clearing and Stripping	Rubber Tired Dozers	2	5.00	182	0.40
Clearing and Stripping	Skid Steer Loaders	1	8.00	65	0.37
Grade Excavation and Haul Offsite	Excavators	1	7.00	347	0.38
Grade Excavation and Haul Offsite	Generator Sets	1	8.00	34	0.74
Grade Excavation and Haul Offsite	Rubber Tired Dozers	2	8.00	182	0.40
Grade Excavation and Haul Offsite	Skid Steer Loaders	1	8.00	65	0.37
Erosion Control	Generator Sets	1	8.00	34	0.74
Erosion Control	Rubber Tired Loaders	1	8.00	203	0.36
Erosion Control	Skid Steer Loaders	1	8.00	65	0.37
Access Road Improvements	Generator Sets	2	8.00	34	0.74
Access Road Improvements	Graders	1	8.00	250	0.41
Access Road Improvements	Plate Compactors	1	8.00	153	0.43
Access Road Improvements	Skid Steer Loaders	1	8.00	65	0.37

Trips and VMT

Lower Walnut Creek Restoration - North Reach Sand Pile - Bay Area AQMD Air District, Annual

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Remove and Abandon Infrastructure & Debris	5	15.00	4.00	142.00	10.80	6.60	4.00	LD_Mix	HDT_Mix	HHDT
Mobilization	6	18.00	6.00	0.00	10.80	6.60	4.00	LD_Mix	HDT_Mix	HHDT
Clearing and Stripping	5	15.00	28.00	641.00	10.80	6.60	4.00	LD_Mix	HDT_Mix	HHDT
Grade Excavation and Haul Offsite	5	15.00	130.00	6,550.00	10.80	6.60	4.00	LD_Mix	HDT_Mix	HHDT
Erosion Control	3	9.00	6.00	0.00	10.80	6.60	4.00	LD_Mix	HDT_Mix	HHDT
Access Road Improvements	5	15.00	15.00	0.00	10.80	6.60	4.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Remove and Abandon Infrastructure & Debris - 2020

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	1.4100e-003	0.0128	0.0126	3.0000e-005		6.3000e-004	6.3000e-004		5.9000e-004	5.9000e-004	0.0000	2.1955	2.1955	6.4000e-004	0.0000	2.2114
Total	1.4100e-003	0.0128	0.0126	3.0000e-005		6.3000e-004	6.3000e-004		5.9000e-004	5.9000e-004	0.0000	2.1955	2.1955	6.4000e-004	0.0000	2.2114

Lower Walnut Creek Restoration - North Reach Sand Pile - Bay Area AQMD Air District, Annual

3.2 Remove and Abandon Infrastructure & Debris - 2020

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	2.2000e-004	9.5200e-003	1.6100e-003	2.0000e-005	2.4000e-004	2.0000e-005	2.6000e-004	7.0000e-005	2.0000e-005	8.0000e-005	0.0000	1.6343	1.6343	1.4000e-004	0.0000	1.6378
Vendor	2.0000e-005	6.6000e-004	1.7000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1450	0.1450	1.0000e-005	0.0000	0.1452
Worker	7.0000e-005	5.0000e-005	5.5000e-004	0.0000	1.8000e-004	0.0000	1.8000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1558	0.1558	0.0000	0.0000	0.1559
Total	3.1000e-004	0.0102	2.3300e-003	2.0000e-005	4.6000e-004	2.0000e-005	4.8000e-004	1.3000e-004	2.0000e-005	1.4000e-004	0.0000	1.9350	1.9350	1.5000e-004	0.0000	1.9388

Mitigated 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	1.4100e-003	0.0128	0.0126	3.0000e-005		6.3000e-004	6.3000e-004		5.9000e-004	5.9000e-004	0.0000	2.1955	2.1955	6.4000e-004	0.0000	2.2114
Total	1.4100e-003	0.0128	0.0126	3.0000e-005		6.3000e-004	6.3000e-004		5.9000e-004	5.9000e-004	0.0000	2.1955	2.1955	6.4000e-004	0.0000	2.2114

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3.2 Remove and Abandon Infrastructure & Debris - 2020

Mitigated 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	2.2000e-004	9.5200e-003	1.6100e-003	2.0000e-005	2.4000e-004	2.0000e-005	2.6000e-004	7.0000e-005	2.0000e-005	8.0000e-005	0.0000	1.6343	1.6343	1.4000e-004	0.0000	1.6378
Vendor	2.0000e-005	6.6000e-004	1.7000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1450	0.1450	1.0000e-005	0.0000	0.1452
Worker	7.0000e-005	5.0000e-005	5.5000e-004	0.0000	1.8000e-004	0.0000	1.8000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1558	0.1558	0.0000	0.0000	0.1559
Total	3.1000e-004	0.0102	2.3300e-003	2.0000e-005	4.6000e-004	2.0000e-005	4.8000e-004	1.3000e-004	2.0000e-005	1.4000e-004	0.0000	1.9350	1.9350	1.5000e-004	0.0000	1.9388

3.3 Mobilization - 2020

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	1.2200e-003	0.0122	0.0103	2.0000e-005		5.7000e-004	5.7000e-004		5.3000e-004	5.3000e-004	0.0000	1.6360	1.6360	4.8000e-004	0.0000	1.6480
Total	1.2200e-003	0.0122	0.0103	2.0000e-005	0.0000	5.7000e-004	5.7000e-004	0.0000	5.3000e-004	5.3000e-004	0.0000	1.6360	1.6360	4.8000e-004	0.0000	1.6480

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3.3 Mobilization - 2020

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	2.0000e-005	6.6000e-004	1.7000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1450	0.1450	1.0000e-005	0.0000	0.1452
Worker	6.0000e-005	4.0000e-005	4.4000e-004	0.0000	1.4000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1246	0.1246	0.0000	0.0000	0.1247
Total	8.0000e-005	7.0000e-004	6.1000e-004	0.0000	1.8000e-004	0.0000	1.8000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.2696	0.2696	1.0000e-005	0.0000	0.2699

Mitigated 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	1.2200e-003	0.0122	0.0103	2.0000e-005		5.7000e-004	5.7000e-004		5.3000e-004	5.3000e-004	0.0000	1.6360	1.6360	4.8000e-004	0.0000	1.6480
Total	1.2200e-003	0.0122	0.0103	2.0000e-005	0.0000	5.7000e-004	5.7000e-004	0.0000	5.3000e-004	5.3000e-004	0.0000	1.6360	1.6360	4.8000e-004	0.0000	1.6480

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3.3 Mobilization - 2020

Mitigated 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	2.0000e-005	6.6000e-004	1.7000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1450	0.1450	1.0000e-005	0.0000	0.1452
Worker	6.0000e-005	4.0000e-005	4.4000e-004	0.0000	1.4000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1246	0.1246	0.0000	0.0000	0.1247
Total	8.0000e-005	7.0000e-004	6.1000e-004	0.0000	1.8000e-004	0.0000	1.8000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.2696	0.2696	1.0000e-005	0.0000	0.2699

3.4 Clearing and Stripping - 2020

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					0.0339	0.0000	0.0339	0.0186	0.0000	0.0186	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.8200e-003	0.0763	0.0429	1.1000e-004		3.4400e-003	3.4400e-003		3.1900e-003	3.1900e-003	0.0000	9.4224	9.4224	2.8300e-003	0.0000	9.4931
Total	7.8200e-003	0.0763	0.0429	1.1000e-004	0.0339	3.4400e-003	0.0373	0.0186	3.1900e-003	0.0218	0.0000	9.4224	9.4224	2.8300e-003	0.0000	9.4931

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3.4 Clearing and Stripping - 2020

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	1.0000e-003	0.0430	7.2800e-003	8.0000e-005	1.0900e-003	7.0000e-005	1.1600e-003	3.0000e-004	7.0000e-005	3.7000e-004	0.0000	7.3772	7.3772	6.4000e-004	0.0000	7.3931
Vendor	4.6000e-004	0.0139	3.4900e-003	3.0000e-005	7.5000e-004	6.0000e-005	8.1000e-004	2.2000e-004	6.0000e-005	2.8000e-004	0.0000	3.0446	3.0446	1.6000e-004	0.0000	3.0487
Worker	2.2000e-004	1.6000e-004	1.6600e-003	1.0000e-005	5.3000e-004	0.0000	5.4000e-004	1.4000e-004	0.0000	1.5000e-004	0.0000	0.4673	0.4673	1.0000e-005	0.0000	0.4676
Total	1.6800e-003	0.0570	0.0124	1.2000e-004	2.3700e-003	1.3000e-004	2.5100e-003	6.6000e-004	1.3000e-004	8.0000e-004	0.0000	10.8891	10.8891	8.1000e-004	0.0000	10.9094

Mitigated 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					0.0339	0.0000	0.0339	0.0186	0.0000	0.0186	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.8200e-003	0.0763	0.0429	1.1000e-004		3.4400e-003	3.4400e-003		3.1900e-003	3.1900e-003	0.0000	9.4224	9.4224	2.8300e-003	0.0000	9.4931
Total	7.8200e-003	0.0763	0.0429	1.1000e-004	0.0339	3.4400e-003	0.0373	0.0186	3.1900e-003	0.0218	0.0000	9.4224	9.4224	2.8300e-003	0.0000	9.4931

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3.4 Clearing and Stripping - 2020

Mitigated 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	1.0000e-003	0.0430	7.2800e-003	8.0000e-005	1.0900e-003	7.0000e-005	1.1600e-003	3.0000e-004	7.0000e-005	3.7000e-004	0.0000	7.3772	7.3772	6.4000e-004	0.0000	7.3931
Vendor	4.6000e-004	0.0139	3.4900e-003	3.0000e-005	7.5000e-004	6.0000e-005	8.1000e-004	2.2000e-004	6.0000e-005	2.8000e-004	0.0000	3.0446	3.0446	1.6000e-004	0.0000	3.0487
Worker	2.2000e-004	1.6000e-004	1.6600e-003	1.0000e-005	5.3000e-004	0.0000	5.4000e-004	1.4000e-004	0.0000	1.5000e-004	0.0000	0.4673	0.4673	1.0000e-005	0.0000	0.4676
Total	1.6800e-003	0.0570	0.0124	1.2000e-004	2.3700e-003	1.3000e-004	2.5100e-003	6.6000e-004	1.3000e-004	8.0000e-004	0.0000	10.8891	10.8891	8.1000e-004	0.0000	10.9094

3.5 Grade Excavation and Haul Offsite - 2020

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					0.1686	0.0000	0.1686	0.0927	0.0000	0.0927	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0321	0.3188	0.1609	3.9000e-004		0.0148	0.0148		0.0137	0.0137	0.0000	33.3848	33.3848	0.0101	0.0000	33.6375
Total	0.0321	0.3188	0.1609	3.9000e-004	0.1686	0.0148	0.1834	0.0927	0.0137	0.1064	0.0000	33.3848	33.3848	0.0101	0.0000	33.6375

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3.5 Grade Excavation and Haul Offsite - 2020

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	0.0102	0.4391	0.0744	7.8000e-004	0.0111	7.6000e-004	0.0119	3.0600e-003	7.3000e-004	3.7900e-003	0.0000	75.3834	75.3834	6.5000e-003	0.0000	75.5459
Vendor	6.6300e-003	0.2005	0.0505	4.6000e-004	0.0108	9.3000e-004	0.0117	3.1200e-003	8.9000e-004	4.0100e-003	0.0000	43.9782	43.9782	2.3700e-003	0.0000	44.0374
Worker	7.0000e-004	5.0000e-004	5.1600e-003	2.0000e-005	1.6600e-003	1.0000e-005	1.6700e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4538	1.4538	4.0000e-005	0.0000	1.4547
Total	0.0175	0.6401	0.1300	1.2600e-003	0.0236	1.7000e-003	0.0253	6.6200e-003	1.6300e-003	8.2500e-003	0.0000	120.8154	120.8154	8.9100e-003	0.0000	121.0379

Mitigated 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					0.1686	0.0000	0.1686	0.0927	0.0000	0.0927	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0321	0.3188	0.1609	3.9000e-004		0.0148	0.0148		0.0137	0.0137	0.0000	33.3847	33.3847	0.0101	0.0000	33.6375
Total	0.0321	0.3188	0.1609	3.9000e-004	0.1686	0.0148	0.1834	0.0927	0.0137	0.1064	0.0000	33.3847	33.3847	0.0101	0.0000	33.6375

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3.5 Grade Excavation and Haul Offsite - 2020

Mitigated 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	0.0102	0.4391	0.0744	7.8000e-004	0.0111	7.6000e-004	0.0119	3.0600e-003	7.3000e-004	3.7900e-003	0.0000	75.3834	75.3834	6.5000e-003	0.0000	75.5459
Vendor	6.6300e-003	0.2005	0.0505	4.6000e-004	0.0108	9.3000e-004	0.0117	3.1200e-003	8.9000e-004	4.0100e-003	0.0000	43.9782	43.9782	2.3700e-003	0.0000	44.0374
Worker	7.0000e-004	5.0000e-004	5.1600e-003	2.0000e-005	1.6600e-003	1.0000e-005	1.6700e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4538	1.4538	4.0000e-005	0.0000	1.4547
Total	0.0175	0.6401	0.1300	1.2600e-003	0.0236	1.7000e-003	0.0253	6.6200e-003	1.6300e-003	8.2500e-003	0.0000	120.8154	120.8154	8.9100e-003	0.0000	121.0379

3.6 Erosion Control - 2020

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	1.1400e-003	0.0109	7.2000e-003	2.0000e-005		4.2000e-004	4.2000e-004		3.9000e-004	3.9000e-004	0.0000	1.4390	1.4390	3.9000e-004	0.0000	1.4488
Total	1.1400e-003	0.0109	7.2000e-003	2.0000e-005	0.0000	4.2000e-004	4.2000e-004	0.0000	3.9000e-004	3.9000e-004	0.0000	1.4390	1.4390	3.9000e-004	0.0000	1.4488

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3.6 Erosion Control - 2020

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	3.0000e-005	9.9000e-004	2.5000e-004	0.0000	5.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2175	0.2175	1.0000e-005	0.0000	0.2178
Worker	4.0000e-005	3.0000e-005	3.3000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0935	0.0935	0.0000	0.0000	0.0935
Total	7.0000e-005	1.0200e-003	5.8000e-004	0.0000	1.6000e-004	0.0000	1.7000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.3109	0.3109	1.0000e-005	0.0000	0.3113

Mitigated 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	1.1400e-003	0.0109	7.2000e-003	2.0000e-005		4.2000e-004	4.2000e-004		3.9000e-004	3.9000e-004	0.0000	1.4390	1.4390	3.9000e-004	0.0000	1.4488
Total	1.1400e-003	0.0109	7.2000e-003	2.0000e-005	0.0000	4.2000e-004	4.2000e-004	0.0000	3.9000e-004	3.9000e-004	0.0000	1.4390	1.4390	3.9000e-004	0.0000	1.4488

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3.6 Erosion Control - 2020

Mitigated 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	3.0000e-005	9.9000e-004	2.5000e-004	0.0000	5.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2175	0.2175	1.0000e-005	0.0000	0.2178
Worker	4.0000e-005	3.0000e-005	3.3000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0935	0.0935	0.0000	0.0000	0.0935
Total	7.0000e-005	1.0200e-003	5.8000e-004	0.0000	1.6000e-004	0.0000	1.7000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.3109	0.3109	1.0000e-005	0.0000	0.3113

3.7 Access Road Improvements - 2020

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	1.3300e-003	0.0131	7.3600e-003	2.0000e-005		4.9000e-004	4.9000e-004		4.6000e-004	4.6000e-004	0.0000	1.4186	1.4186	3.6000e-004	0.0000	1.4277
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.3300e-003	0.0131	7.3600e-003	2.0000e-005		4.9000e-004	4.9000e-004		4.6000e-004	4.6000e-004	0.0000	1.4186	1.4186	3.6000e-004	0.0000	1.4277

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3.7 Access Road Improvements - 2020

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	5.0000e-005	1.6500e-003	4.2000e-004	0.0000	9.0000e-005	1.0000e-005	1.0000e-004	3.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.3625	0.3625	2.0000e-005	0.0000	0.3630
Worker	5.0000e-005	4.0000e-005	3.7000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1038	0.1038	0.0000	0.0000	0.1039
Total	1.0000e-004	1.6900e-003	7.9000e-004	0.0000	2.1000e-004	1.0000e-005	2.2000e-004	6.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.4663	0.4663	2.0000e-005	0.0000	0.4669

Mitigated 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	1.3300e-003	0.0131	7.3600e-003	2.0000e-005		4.9000e-004	4.9000e-004		4.6000e-004	4.6000e-004	0.0000	1.4186	1.4186	3.6000e-004	0.0000	1.4277
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.3300e-003	0.0131	7.3600e-003	2.0000e-005		4.9000e-004	4.9000e-004		4.6000e-004	4.6000e-004	0.0000	1.4186	1.4186	3.6000e-004	0.0000	1.4277

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3.7 Access Road Improvements - 2020

Mitigated 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	5.0000e-005	1.6500e-003	4.2000e-004	0.0000	9.0000e-005	1.0000e-005	1.0000e-004	3.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.3625	0.3625	2.0000e-005	0.0000	0.3630
Worker	5.0000e-005	4.0000e-005	3.7000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1038	0.1038	0.0000	0.0000	0.1039
Total	1.0000e-004	1.6900e-003	7.9000e-004	0.0000	2.1000e-004	1.0000e-005	2.2000e-004	6.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.4663	0.4663	2.0000e-005	0.0000	0.4669

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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	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					
Mitigated	0.7707	3.7716	8.9083	0.0306	2.5863	0.0285	2.6148	0.6942	0.0267	0.7209	0.0000	2,810.6274	2,810.6274	0.1054	0.0000	2,813.2635
Unmitigated	0.7707	3.7716	8.9083	0.0306	2.5863	0.0285	2.6148	0.6942	0.0267	0.7209	0.0000	2,810.6274	2,810.6274	0.1054	0.0000	2,813.2635

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	761.67	9,168.25	6746.22	6,948,647	6,948,647
Total	761.67	9,168.25	6,746.22	6,948,647	6,948,647

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	14.70	6.60	6.60	33.00	48.00	19.00	66	28	6

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.575198	0.040076	0.193827	0.113296	0.016988	0.005361	0.017552	0.025197	0.002581	0.002349	0.005904	0.000881	0.000789

5.0 Energy Detail

Historical Energy Use: N

Lower Walnut Creek Restoration - North Reach Sand Pile - Bay Area AQMD Air District, Annual

5.2 Energy by Land Use - Natural Gas

Mitigated

	Natural Gas Use	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
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	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

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Lower Walnut Creek Restoration - North Reach Sand Pile - Bay Area AQMD Air District, Annual

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

	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					
Mitigated	0.2031	3.0000e-005	3.7200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.2000e-003	7.2000e-003	2.0000e-005	0.0000	7.6800e-003
Unmitigated	0.2031	3.0000e-005	3.7200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.2000e-003	7.2000e-003	2.0000e-005	0.0000	7.6800e-003

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6.2 Area by SubCategory

Unmitigated

	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
SubCategory	tons/yr										MT/yr					
Architectural Coating	4.4500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1983					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.5000e-004	3.0000e-005	3.7200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.2000e-003	7.2000e-003	2.0000e-005	0.0000	7.6800e-003
Total	0.2031	3.0000e-005	3.7200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.2000e-003	7.2000e-003	2.0000e-005	0.0000	7.6800e-003

Mitigated

	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
SubCategory	tons/yr										MT/yr					
Architectural Coating	4.4500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1983					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.5000e-004	3.0000e-005	3.7200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.2000e-003	7.2000e-003	2.0000e-005	0.0000	7.6800e-003
Total	0.2031	3.0000e-005	3.7200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.2000e-003	7.2000e-003	2.0000e-005	0.0000	7.6800e-003

7.0 Water Detail

Lower Walnut Creek Restoration - North Reach Sand Pile - Bay Area AQMD Air District, Annual

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	488.9013	0.0221	4.5700e-003	490.8170
Unmitigated	488.9013	0.0221	4.5700e-003	490.8170

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 480.167	488.9013	0.0221	4.5700e-003	490.8170
Total		488.9013	0.0221	4.5700e-003	490.8170

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 480.167	488.9013	0.0221	4.5700e-003	490.8170
Total		488.9013	0.0221	4.5700e-003	490.8170

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	7.0357	0.4158	0.0000	17.4306
Unmitigated	7.0357	0.4158	0.0000	17.4306

Lower Walnut Creek Restoration - North Reach Sand Pile - Bay Area AQMD Air District, Annual

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	34.66	7.0357	0.4158	0.0000	17.4306
Total		7.0357	0.4158	0.0000	17.4306

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	34.66	7.0357	0.4158	0.0000	17.4306
Total		7.0357	0.4158	0.0000	17.4306

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Lower Walnut Creek Restoration - North Reach Sand Pile - Bay Area AQMD Air District, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Lower Walnut Creek Restoration - EN "Phase 3" - Bay Area AQMD Air District, Annual

Lower Walnut Creek Restoration - EN "Phase 3"
Bay Area AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	403.00	Acre	403.00	17,554,680.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	64
Climate Zone	4			Operational Year	2022
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Lower Walnut Creek Restoration - EN "Phase 3" - Bay Area AQMD Air District, Annual

Project Characteristics - Expanded North - "Phase 3_M and N_A"

Land Use - Acreage from project description; buildings from Placeworks

Construction Phase - Project Specific "Expanded North_LWC_Construction Details_2018-0118.xlsx"

Off-road Equipment - dump truck = onsite haul days

Off-road Equipment - LGP Track Dump truck = haul truck trip

Off-road Equipment - Dump truck = haul trip

water truck = vendor trip

Off-road Equipment - Dump truck = haul trip

water truck = vendor trip

Off-road Equipment - Project specific. John Deer 1600 Series III Turbo = 60.0 hp; load factor from crawler tractor default (0.4288)

Trips and VMT - project specific

Grading - Not relevant. BAAQMD PM Thresholds for exhaust only

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	500.00	34.00
tblConstructionPhase	NumDays	775.00	59.00
tblConstructionPhase	NumDays	775.00	104.00
tblConstructionPhase	NumDays	300.00	3.00
tblConstructionPhase	PhaseEndDate	3/31/2023	6/17/2021
tblConstructionPhase	PhaseEndDate	5/14/2027	7/22/2021
tblConstructionPhase	PhaseEndDate	5/3/2030	11/23/2021
tblConstructionPhase	PhaseEndDate	5/24/2024	5/5/2021
tblConstructionPhase	PhaseStartDate	5/25/2024	5/3/2021
tblConstructionPhase	PhaseStartDate	5/15/2027	7/1/2021
tblConstructionPhase	PhaseStartDate	4/1/2023	5/3/2021

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tblFleetMix	HHD	0.03	0.03
tblFleetMix	LDA	0.58	0.58
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.19	0.19
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD2	5.3580e-003	5.3610e-003
tblFleetMix	MCY	5.8740e-003	5.9040e-003
tblFleetMix	MDV	0.11	0.11
tblFleetMix	MH	7.6800e-004	7.8900e-004
tblFleetMix	MHD	0.02	0.02
tblFleetMix	OBUS	2.6140e-003	2.5810e-003
tblFleetMix	SBUS	8.8700e-004	8.8100e-004
tblFleetMix	UBUS	2.2740e-003	2.3490e-003
tblOffRoadEquipment	HorsePower	88.00	60.00
tblOffRoadEquipment	HorsePower	187.00	247.00
tblOffRoadEquipment	HorsePower	187.00	247.00
tblOffRoadEquipment	LoadFactor	0.34	0.43
tblOffRoadEquipment	LoadFactor	0.41	0.40
tblOffRoadEquipment	LoadFactor	0.41	0.40
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Mow
tblOffRoadEquipment	PhaseName		Foundation Excavation

Lower Walnut Creek Restoration - EN "Phase 3" - Bay Area AQMD Air District, Annual

tblOffRoadEquipment	PhaseName		Haul M to N
tblOffRoadEquipment	PhaseName		Haul N to M
tblOffRoadEquipment	UsageHours	8.00	3.00
tblOffRoadEquipment	UsageHours	8.00	2.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripLength	20.00	0.25
tblTripsAndVMT	HaulingTripLength	20.00	5.00
tblTripsAndVMT	HaulingTripLength	20.00	5.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,834.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,834.00
tblTripsAndVMT	HaulingTripNumber	0.00	7,450.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	5.00	9.00
tblTripsAndVMT	WorkerTripNumber	5.00	12.00
tblTripsAndVMT	WorkerTripNumber	8.00	21.00

2.0 Emissions Summary

Lower Walnut Creek Restoration - EN "Phase 3" - Bay Area AQMD Air District, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	5-3-2021	8-2-2021	0.4819	0.3817
2	8-3-2021	9-30-2021	0.3296	0.2492
		Highest	0.4819	0.3817

2.2 Overall Operational

Unmitigated Operational

	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					
Area	0.2031	3.0000e-005	3.7100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.2000e-003	7.2000e-003	2.0000e-005	0.0000	7.6800e-003
Energy	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
Mobile	0.7182	3.5263	8.2501	0.0297	2.5861	0.0271	2.6131	0.6941	0.0253	0.7195	0.0000	2,727.3275	2,727.3275	0.0992	0.0000	2,729.8072
Waste						0.0000	0.0000		0.0000	0.0000	7.0357	0.0000	7.0357	0.4158	0.0000	17.4306
Water						0.0000	0.0000		0.0000	0.0000	0.0000	488.9013	488.9013	0.0221	4.5700e-003	490.8170
Total	0.9214	3.5264	8.2538	0.0297	2.5861	0.0271	2.6131	0.6941	0.0253	0.7195	7.0357	3,216.2360	3,223.2717	0.5371	4.5700e-003	3,238.0624

Lower Walnut Creek Restoration - EN "Phase 3" - Bay Area AQMD Air District, Annual

2.2 Overall Operational

Mitigated Operational

	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					
Area	0.2031	3.0000e-005	3.7100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.2000e-003	7.2000e-003	2.0000e-005	0.0000	7.6800e-003
Energy	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
Mobile	0.7182	3.5263	8.2501	0.0297	2.5861	0.0271	2.6131	0.6941	0.0253	0.7195	0.0000	2,727.3275	2,727.3275	0.0992	0.0000	2,729.8072
Waste						0.0000	0.0000		0.0000	0.0000	7.0357	0.0000	7.0357	0.4158	0.0000	17.4306
Water						0.0000	0.0000		0.0000	0.0000	0.0000	488.9013	488.9013	0.0221	4.5700e-003	490.8170
Total	0.9214	3.5264	8.2538	0.0297	2.5861	0.0271	2.6131	0.6941	0.0253	0.7195	7.0357	3,216.2360	3,223.2717	0.5371	4.5700e-003	3,238.0624

	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
Percent Reduction	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

Lower Walnut Creek Restoration - EN "Phase 3" - Bay Area AQMD Air District, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Foundation Excavation	Demolition	5/3/2021	6/17/2021	5	34	Foundation excavation and subgrade preparation for new setback levees
2	Mow	Site Preparation	5/3/2021	5/5/2021	5	3	Clear and grub excavation and fill areas
3	Haul M to N	Grading	5/3/2021	7/22/2021	5	59	Haul, stockpile, and place foundation excavation material from Middle to North
4	Haul N to M	Grading	7/1/2021	11/23/2021	5	104	Haul and place levee foundation, levee, and toe berm material from North to Middle

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: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Foundation Excavation	Excavators	1	3.00	158	0.38
Foundation Excavation	Plate Compactors	1	2.00	8	0.43
Mow	Other General Industrial Equipment	1	8.00	60	0.43
Haul M to N	Plate Compactors	1	1.00	8	0.43
Haul M to N	Graders	1	2.00	247	0.40
Haul N to M	Excavators	1	4.00	158	0.38
Haul N to M	Plate Compactors	1	2.00	8	0.43
Haul N to M	Graders	1	4.00	247	0.40

Trips and VMT

Lower Walnut Creek Restoration - EN "Phase 3" - Bay Area AQMD Air District, Annual

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Foundation Excavation	2	9.00	0.00	1,834.00	10.80	6.60	0.25	LD_Mix	HDT_Mix	HHDT
Mow	1	3.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Haul M to N	2	12.00	2.00	1,834.00	10.80	6.60	5.00	LD_Mix	HDT_Mix	HHDT
Haul N to M	3	21.00	2.00	7,450.00	10.80	6.60	5.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Foundation Excavation - 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	1.6300e-003	0.0148	0.0218	4.0000e-005		7.1000e-004	7.1000e-004		6.5000e-004	6.5000e-004	0.0000	3.0257	3.0257	9.5000e-004	0.0000	3.0494
Total	1.6300e-003	0.0148	0.0218	4.0000e-005		7.1000e-004	7.1000e-004		6.5000e-004	6.5000e-004	0.0000	3.0257	3.0257	9.5000e-004	0.0000	3.0494

Lower Walnut Creek Restoration - EN "Phase 3" - Bay Area AQMD Air District, Annual

3.2 Foundation Excavation - 2021

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	1.6200e-003	0.0860	0.0125	1.0000e-004	2.1000e-004	5.0000e-005	2.7000e-004	6.0000e-005	5.0000e-005	1.1000e-004	0.0000	9.4829	9.4829	1.3200e-003	0.0000	9.5160
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	4.7000e-004	3.2000e-004	3.4300e-003	1.0000e-005	1.2100e-003	1.0000e-005	1.2200e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	1.0220	1.0220	2.0000e-005	0.0000	1.0226
Total	2.0900e-003	0.0863	0.0159	1.1000e-004	1.4200e-003	6.0000e-005	1.4900e-003	3.8000e-004	6.0000e-005	4.4000e-004	0.0000	10.5049	10.5049	1.3400e-003	0.0000	10.5386

Mitigated 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	1.6300e-003	0.0148	0.0218	4.0000e-005		7.1000e-004	7.1000e-004		6.5000e-004	6.5000e-004	0.0000	3.0257	3.0257	9.5000e-004	0.0000	3.0494
Total	1.6300e-003	0.0148	0.0218	4.0000e-005		7.1000e-004	7.1000e-004		6.5000e-004	6.5000e-004	0.0000	3.0257	3.0257	9.5000e-004	0.0000	3.0494

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3.2 Foundation Excavation - 2021

Mitigated 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	1.6200e-003	0.0860	0.0125	1.0000e-004	2.1000e-004	5.0000e-005	2.7000e-004	6.0000e-005	5.0000e-005	1.1000e-004	0.0000	9.4829	9.4829	1.3200e-003	0.0000	9.5160
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	4.7000e-004	3.2000e-004	3.4300e-003	1.0000e-005	1.2100e-003	1.0000e-005	1.2200e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	1.0220	1.0220	2.0000e-005	0.0000	1.0226
Total	2.0900e-003	0.0863	0.0159	1.1000e-004	1.4200e-003	6.0000e-005	1.4900e-003	3.8000e-004	6.0000e-005	4.4000e-004	0.0000	10.5049	10.5049	1.3400e-003	0.0000	10.5386

3.3 Mow - 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	2.8000e-004	2.5400e-003	2.5500e-003	0.0000		1.7000e-004	1.7000e-004		1.6000e-004	1.6000e-004	0.0000	0.2910	0.2910	9.0000e-005	0.0000	0.2934
Total	2.8000e-004	2.5400e-003	2.5500e-003	0.0000	0.0000	1.7000e-004	1.7000e-004	0.0000	1.6000e-004	1.6000e-004	0.0000	0.2910	0.2910	9.0000e-005	0.0000	0.2934

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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	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	1.0000e-005	1.0000e-005	1.0000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0301	0.0301	0.0000	0.0000	0.0301
Total	1.0000e-005	1.0000e-005	1.0000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0301	0.0301	0.0000	0.0000	0.0301

Mitigated 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	2.8000e-004	2.5400e-003	2.5500e-003	0.0000		1.7000e-004	1.7000e-004		1.6000e-004	1.6000e-004	0.0000	0.2910	0.2910	9.0000e-005	0.0000	0.2934
Total	2.8000e-004	2.5400e-003	2.5500e-003	0.0000	0.0000	1.7000e-004	1.7000e-004	0.0000	1.6000e-004	1.6000e-004	0.0000	0.2910	0.2910	9.0000e-005	0.0000	0.2934

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Mitigated 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	1.0000e-005	1.0000e-005	1.0000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0301	0.0301	0.0000	0.0000	0.0301
Total	1.0000e-005	1.0000e-005	1.0000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0301	0.0301	0.0000	0.0000	0.0301

3.4 Haul M to N - 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					0.0444	0.0000	0.0444	0.0244	0.0000	0.0244	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.4500e-003	0.0572	0.0176	6.0000e-005		1.8200e-003	1.8200e-003		1.6800e-003	1.6800e-003	0.0000	5.6477	5.6477	1.8000e-003	0.0000	5.6927
Total	4.4500e-003	0.0572	0.0176	6.0000e-005	0.0444	1.8200e-003	0.0462	0.0244	1.6800e-003	0.0261	0.0000	5.6477	5.6477	1.8000e-003	0.0000	5.6927

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3.4 Haul M to N - 2021

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	2.9700e-003	0.1248	0.0221	2.5000e-004	3.8900e-003	2.2000e-004	4.1100e-003	1.0700e-003	2.2000e-004	1.2900e-003	0.0000	23.8873	23.8873	1.8600e-003	0.0000	23.9337
Vendor	1.8000e-004	5.9100e-003	1.4700e-003	1.0000e-005	3.5000e-004	1.0000e-005	3.6000e-004	1.0000e-004	1.0000e-005	1.1000e-004	0.0000	1.4122	1.4122	7.0000e-005	0.0000	1.4140
Worker	1.0900e-003	7.5000e-004	7.9400e-003	3.0000e-005	2.8000e-003	2.0000e-005	2.8200e-003	7.4000e-004	2.0000e-005	7.6000e-004	0.0000	2.3647	2.3647	5.0000e-005	0.0000	2.3660
Total	4.2400e-003	0.1315	0.0316	2.9000e-004	7.0400e-003	2.5000e-004	7.2900e-003	1.9100e-003	2.5000e-004	2.1600e-003	0.0000	27.6641	27.6641	1.9800e-003	0.0000	27.7137

Mitigated 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					0.0444	0.0000	0.0444	0.0244	0.0000	0.0244	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.4500e-003	9.3000e-004	0.0176	6.0000e-005		1.8200e-003	1.8200e-003		1.6800e-003	1.6800e-003	0.0000	5.6477	5.6477	1.8000e-003	0.0000	5.6927
Total	4.4500e-003	9.3000e-004	0.0176	6.0000e-005	0.0444	1.8200e-003	0.0462	0.0244	1.6800e-003	0.0261	0.0000	5.6477	5.6477	1.8000e-003	0.0000	5.6927

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3.4 Haul M to N - 2021

Mitigated 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	2.9700e-003	0.1248	0.0221	2.5000e-004	3.8900e-003	2.2000e-004	4.1100e-003	1.0700e-003	2.2000e-004	1.2900e-003	0.0000	23.8873	23.8873	1.8600e-003	0.0000	23.9337
Vendor	1.8000e-004	5.9100e-003	1.4700e-003	1.0000e-005	3.5000e-004	1.0000e-005	3.6000e-004	1.0000e-004	1.0000e-005	1.1000e-004	0.0000	1.4122	1.4122	7.0000e-005	0.0000	1.4140
Worker	1.0900e-003	7.5000e-004	7.9400e-003	3.0000e-005	2.8000e-003	2.0000e-005	2.8200e-003	7.4000e-004	2.0000e-005	7.6000e-004	0.0000	2.3647	2.3647	5.0000e-005	0.0000	2.3660
Total	4.2400e-003	0.1315	0.0316	2.9000e-004	7.0400e-003	2.5000e-004	7.2900e-003	1.9100e-003	2.5000e-004	2.1600e-003	0.0000	27.6641	27.6641	1.9800e-003	0.0000	27.7137

3.5 Haul N to M - 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					0.1566	0.0000	0.1566	0.0861	0.0000	0.0861	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0217	0.2578	0.1470	3.6000e-004		9.1300e-003	9.1300e-003		8.4100e-003	8.4100e-003	0.0000	31.7085	31.7085	0.0102	0.0000	31.9626
Total	0.0217	0.2578	0.1470	3.6000e-004	0.1566	9.1300e-003	0.1657	0.0861	8.4100e-003	0.0945	0.0000	31.7085	31.7085	0.0102	0.0000	31.9626

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3.5 Haul N to M - 2021

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	0.0121	0.5070	0.0899	1.0000e-003	0.0158	9.1000e-004	0.0167	4.3500e-003	8.7000e-004	5.2200e-003	0.0000	97.0340	97.0340	7.5400e-003	0.0000	97.2226
Vendor	3.1000e-004	0.0104	2.5900e-003	3.0000e-005	6.2000e-004	2.0000e-005	6.4000e-004	1.8000e-004	2.0000e-005	2.0000e-004	0.0000	2.4892	2.4892	1.3000e-004	0.0000	2.4924
Worker	3.3500e-003	2.3100e-003	0.0245	8.0000e-005	8.6300e-003	6.0000e-005	8.6900e-003	2.3000e-003	5.0000e-005	2.3500e-003	0.0000	7.2945	7.2945	1.6000e-004	0.0000	7.2985
Total	0.0157	0.5197	0.1170	1.1100e-003	0.0250	9.9000e-004	0.0260	6.8300e-003	9.4000e-004	7.7700e-003	0.0000	106.8177	106.8177	7.8300e-003	0.0000	107.0136

Mitigated 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					0.1566	0.0000	0.1566	0.0861	0.0000	0.0861	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0217	0.0593	0.1470	3.6000e-004		9.1300e-003	9.1300e-003		8.4100e-003	8.4100e-003	0.0000	31.7084	31.7084	0.0102	0.0000	31.9626
Total	0.0217	0.0593	0.1470	3.6000e-004	0.1566	9.1300e-003	0.1657	0.0861	8.4100e-003	0.0945	0.0000	31.7084	31.7084	0.0102	0.0000	31.9626

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3.5 Haul N to M - 2021

Mitigated 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	0.0121	0.5070	0.0899	1.0000e-003	0.0158	9.1000e-004	0.0167	4.3500e-003	8.7000e-004	5.2200e-003	0.0000	97.0340	97.0340	7.5400e-003	0.0000	97.2226
Vendor	3.1000e-004	0.0104	2.5900e-003	3.0000e-005	6.2000e-004	2.0000e-005	6.4000e-004	1.8000e-004	2.0000e-005	2.0000e-004	0.0000	2.4892	2.4892	1.3000e-004	0.0000	2.4924
Worker	3.3500e-003	2.3100e-003	0.0245	8.0000e-005	8.6300e-003	6.0000e-005	8.6900e-003	2.3000e-003	5.0000e-005	2.3500e-003	0.0000	7.2945	7.2945	1.6000e-004	0.0000	7.2985
Total	0.0157	0.5197	0.1170	1.1100e-003	0.0250	9.9000e-004	0.0260	6.8300e-003	9.4000e-004	7.7700e-003	0.0000	106.8177	106.8177	7.8300e-003	0.0000	107.0136

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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	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					
Mitigated	0.7182	3.5263	8.2501	0.0297	2.5861	0.0271	2.6131	0.6941	0.0253	0.7195	0.0000	2,727.3275	2,727.3275	0.0992	0.0000	2,729.8072
Unmitigated	0.7182	3.5263	8.2501	0.0297	2.5861	0.0271	2.6131	0.6941	0.0253	0.7195	0.0000	2,727.3275	2,727.3275	0.0992	0.0000	2,729.8072

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	761.67	9,168.25	6746.22	6,948,647	6,948,647
Total	761.67	9,168.25	6,746.22	6,948,647	6,948,647

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	14.70	6.60	6.60	33.00	48.00	19.00	66	28	6

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.575198	0.040076	0.193827	0.113296	0.016988	0.005361	0.017552	0.025197	0.002581	0.002349	0.005904	0.000881	0.000789

5.0 Energy Detail

Historical Energy Use: N

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5.2 Energy by Land Use - Natural Gas

Mitigated

	Natural Gas Use	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	
Land Use	kBTU/yr	tons/yr										MT/yr						
City Park	0	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

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

	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					
Mitigated	0.2031	3.0000e-005	3.7100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.2000e-003	7.2000e-003	2.0000e-005	0.0000	7.6800e-003
Unmitigated	0.2031	3.0000e-005	3.7100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.2000e-003	7.2000e-003	2.0000e-005	0.0000	7.6800e-003

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6.2 Area by SubCategory

Unmitigated

	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
SubCategory	tons/yr										MT/yr					
Architectural Coating	4.4500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1983					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.4000e-004	3.0000e-005	3.7100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.2000e-003	7.2000e-003	2.0000e-005	0.0000	7.6800e-003
Total	0.2031	3.0000e-005	3.7100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.2000e-003	7.2000e-003	2.0000e-005	0.0000	7.6800e-003

Mitigated

	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
SubCategory	tons/yr										MT/yr					
Architectural Coating	4.4500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1983					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.4000e-004	3.0000e-005	3.7100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.2000e-003	7.2000e-003	2.0000e-005	0.0000	7.6800e-003
Total	0.2031	3.0000e-005	3.7100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.2000e-003	7.2000e-003	2.0000e-005	0.0000	7.6800e-003

7.0 Water Detail

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7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	488.9013	0.0221	4.5700e-003	490.8170
Unmitigated	488.9013	0.0221	4.5700e-003	490.8170

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 480.167	488.9013	0.0221	4.5700e-003	490.8170
Total		488.9013	0.0221	4.5700e-003	490.8170

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 480.167	488.9013	0.0221	4.5700e-003	490.8170
Total		488.9013	0.0221	4.5700e-003	490.8170

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	7.0357	0.4158	0.0000	17.4306
Unmitigated	7.0357	0.4158	0.0000	17.4306

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8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	34.66	7.0357	0.4158	0.0000	17.4306
Total		7.0357	0.4158	0.0000	17.4306

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	34.66	7.0357	0.4158	0.0000	17.4306
Total		7.0357	0.4158	0.0000	17.4306

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Lower Walnut Creek Restoration - EN "Phase 3" - Bay Area AQMD Air District, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Lower Walnut Creek Restoration - EN "Phase 4" - Bay Area AQMD Air District, Annual

Lower Walnut Creek Restoration - EN "Phase 4"
Bay Area AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	403.00	Acre	403.00	17,554,680.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	64
Climate Zone	4			Operational Year	2023
Utility Company	PacifiCorp				
CO2 Intensity (lb/MW hr)	1656.39	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Lower Walnut Creek Restoration - EN "Phase 4" - Bay Area AQMD Air District, Annual

Project Characteristics - Expanded Roads - "Phase 4_M and N_B"

Land Use - Acreage from project description; buildings from Placeworks

Construction Phase - Project Specific "Expanded North_LWC_Construction Details_2018-0118.xlsx"

Off-road Equipment - dump truck = onsite haul days

Off-road Equipment - project specific

Off-road Equipment - water truck = vendor trip

Off-road Equipment - dump truck = haul trip

Off-road Equipment - LGP dump truck = onsite truck trip

Off-road Equipment - LGP Dump Truck = onsite haul trip

Off-road Equipment - project specific

Off-road Equipment - dump truck = haul trip

Off-road Equipment - Project specific. John Deer 1600 Series III Turbo = 60.0 hp; load factor from crawler tractor default (0.4288)

Off-road Equipment - water truck = vendor

dump truck = onsite haul

Off-road Equipment - project specific

Trips and VMT - onsite haul trip = 0.25

haul offsite = 5

Grading - Not relevant. BAAQMD PM Thresholds for exhaust only

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	775.00	11.00
tblConstructionPhase	NumDays	775.00	63.00
tblConstructionPhase	NumDays	775.00	21.00
tblConstructionPhase	NumDays	550.00	2.00
tblConstructionPhase	NumDays	300.00	7.00

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tblConstructionPhase	NumDays	300.00	7.00
tblConstructionPhase	PhaseEndDate	8/6/2027	6/15/2022
tblConstructionPhase	PhaseEndDate	7/26/2030	10/26/2022
tblConstructionPhase	PhaseEndDate	7/15/2033	9/29/2022
tblConstructionPhase	PhaseEndDate	8/24/2035	11/2/2022
tblConstructionPhase	PhaseEndDate	6/23/2023	5/10/2022
tblConstructionPhase	PhaseEndDate	8/16/2024	11/9/2022
tblConstructionPhase	PhaseEndDate	7/15/2033	5/27/2022
tblConstructionPhase	PhaseEndDate	7/15/2033	10/26/2022
tblConstructionPhase	PhaseEndDate	7/15/2033	9/20/2022
tblConstructionPhase	PhaseEndDate	7/15/2033	11/2/2022
tblConstructionPhase	PhaseStartDate	8/17/2024	6/1/2022
tblConstructionPhase	PhaseStartDate	8/7/2027	8/1/2022
tblConstructionPhase	PhaseStartDate	7/27/2030	9/1/2022
tblConstructionPhase	PhaseStartDate	7/16/2033	11/1/2022
tblConstructionPhase	PhaseStartDate	6/24/2023	11/1/2022
tblConstructionPhase	PhaseStartDate	7/16/2033	5/2/2022
tblConstructionPhase	PhaseStartDate	7/16/2033	8/1/2022
tblConstructionPhase	PhaseStartDate	7/16/2033	9/1/2022
tblConstructionPhase	PhaseStartDate	7/16/2033	11/1/2022
tblFleetMix	HHD	0.03	0.03
tblFleetMix	LDA	0.58	0.58
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.19	0.19
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD2	5.3410e-003	5.3610e-003
tblFleetMix	MCY	5.8320e-003	5.9040e-003

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tblFleetMix	MDV	0.11	0.11
tblFleetMix	MH	7.4900e-004	7.8900e-004
tblFleetMix	MHD	0.02	0.02
tblFleetMix	OBUS	2.6410e-003	2.5810e-003
tblFleetMix	SBUS	8.9100e-004	8.8100e-004
tblFleetMix	UBUS	2.2000e-003	2.3490e-003
tblOffRoadEquipment	HorsePower	187.00	247.00
tblOffRoadEquipment	HorsePower	88.00	60.00
tblOffRoadEquipment	LoadFactor	0.41	0.40
tblOffRoadEquipment	LoadFactor	0.34	0.43
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Excavate tidal channels1
tblOffRoadEquipment	PhaseName		Excavate levee1
tblOffRoadEquipment	PhaseName		Excavate tidal channels2
tblOffRoadEquipment	PhaseName		Breach
tblOffRoadEquipment	PhaseName		Mow

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tblOffRoadEquipment	PhaseName		Raise
tblOffRoadEquipment	PhaseName		Haul to N
tblOffRoadEquipment	PhaseName		Access Road
tblOffRoadEquipment	PhaseName		Reveg
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	2.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	2.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripLength	20.00	0.25
tblTripsAndVMT	HaulingTripLength	20.00	0.25
tblTripsAndVMT	HaulingTripLength	20.00	0.25
tblTripsAndVMT	HaulingTripLength	20.00	0.25
tblTripsAndVMT	HaulingTripLength	20.00	0.25
tblTripsAndVMT	HaulingTripLength	20.00	5.00
tblTripsAndVMT	HaulingTripLength	20.00	0.25
tblTripsAndVMT	HaulingTripNumber	0.00	29.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,034.00
tblTripsAndVMT	HaulingTripNumber	0.00	517.00
tblTripsAndVMT	HaulingTripNumber	0.00	4,634.00
tblTripsAndVMT	HaulingTripNumber	0.00	6,334.00
tblTripsAndVMT	HaulingTripNumber	0.00	684.00
tblTripsAndVMT	HaulingTripNumber	0.00	684.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	15.00	3.00
tblTripsAndVMT	WorkerTripNumber	5.00	9.00

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tblTripsAndVMT	WorkerTripNumber	3.00	6.00
tblTripsAndVMT	WorkerTripNumber	3.00	6.00
tblTripsAndVMT	WorkerTripNumber	5.00	18.00
tblTripsAndVMT	WorkerTripNumber	3.00	9.00
tblTripsAndVMT	WorkerTripNumber	8.00	18.00
tblTripsAndVMT	WorkerTripNumber	3.00	6.00

2.0 Emissions Summary

Lower Walnut Creek Restoration - EN "Phase 4" - Bay Area AQMD Air District, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	5-2-2022	8-1-2022	0.0939	0.0927
2	8-2-2022	9-30-2022	0.5692	0.4830
		Highest	0.5692	0.4830

2.2 Overall Operational

Unmitigated Operational

	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					
Area	0.2031	3.0000e-005	3.7000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.2000e-003	7.2000e-003	2.0000e-005	0.0000	7.6700e-003
Energy	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
Mobile	0.6610	2.8846	7.6750	0.0287	2.5859	0.0238	2.6097	0.6941	0.0223	0.7163	0.0000	2,632.6858	2,632.6858	0.0904	0.0000	2,634.9452
Waste						0.0000	0.0000		0.0000	0.0000	7.0357	0.0000	7.0357	0.4158	0.0000	17.4306
Water						0.0000	0.0000		0.0000	0.0000	0.0000	1,262.6666	1,262.6666	0.0221	4.5700e-003	1,264.5822
Total	0.8641	2.8847	7.6787	0.0287	2.5859	0.0239	2.6098	0.6941	0.0223	0.7163	7.0357	3,895.3595	3,902.3952	0.5283	4.5700e-003	3,916.9657

Lower Walnut Creek Restoration - EN "Phase 4" - Bay Area AQMD Air District, Annual

2.2 Overall Operational

Mitigated Operational

	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					
Area	0.2031	3.0000e-005	3.7000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.2000e-003	7.2000e-003	2.0000e-005	0.0000	7.6700e-003
Energy	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
Mobile	0.6610	2.8846	7.6750	0.0287	2.5859	0.0238	2.6097	0.6941	0.0223	0.7163	0.0000	2,632.6858	2,632.6858	0.0904	0.0000	2,634.9452
Waste						0.0000	0.0000		0.0000	0.0000	7.0357	0.0000	7.0357	0.4158	0.0000	17.4306
Water						0.0000	0.0000		0.0000	0.0000	0.0000	1,262.6666	1,262.6666	0.0221	4.5700e-003	1,264.5822
Total	0.8641	2.8847	7.6787	0.0287	2.5859	0.0239	2.6098	0.6941	0.0223	0.7163	7.0357	3,895.3595	3,902.3952	0.5283	4.5700e-003	3,916.9657

	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
Percent Reduction	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

Lower Walnut Creek Restoration - EN "Phase 4" - Bay Area AQMD Air District, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Mow	Site Preparation	5/2/2022	5/10/2022	5	7	Clear and grub excavation and fill areas
2	Reveg	Site Preparation	11/1/2022	11/9/2022	5	7	Revegetation
3	Fill	Grading	6/1/2022	6/15/2022	5	11	Place fill material along transition slope
4	Raise	Grading	8/1/2022	10/26/2022	5	63	
5	Haul to N	Grading	9/1/2022	9/29/2022	5	21	Haul excess material to North Reach
6	Excavate tidal channels1	Trenching	5/2/2022	5/27/2022	5	20	Excavate new tidal channels within diked basin
7	Excavate levee1	Trenching	8/1/2022	10/26/2022	5	63	Excavate existing levee to elevation 10 ft NAVD
8	Excavate tidal channels2	Trenching	9/1/2022	9/20/2022	5	14	Excavate new tidal channels connecting to Walnut and Pacheco Creeks
9	Breach	Trenching	11/1/2022	11/2/2022	5	2	Breach new tidal channel connections
10	Access Road	Paving	11/1/2022	11/2/2022	5	2	Access road improvements

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: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Lower Walnut Creek Restoration - EN "Phase 4" - Bay Area AQMD Air District, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Raise	Plate Compactors	1	2.00	8	0.43
Raise	Graders	1	4.00	247	0.40
Mow	Other General Industrial Equipment	1	8.00	60	0.43
Excavate tidal channels1	Excavators	1	3.00	158	0.38
Fill	Excavators	1	4.00	158	0.38
Excavate levee1	Excavators	1	5.00	158	0.38
Haul to N	Excavators	1	2.00	158	0.38
Haul to N	Plate Compactors	1	2.00	8	0.43
Haul to N	Graders	1	2.00	187	0.41
Excavate tidal channels2	Excavators	1	4.00	158	0.38
Reveg	Rubber Tired Loaders	1	8.00	203	0.36
Breach	Excavators	1	8.00	158	0.38
Access Road	Rollers	1	8.00	80	0.38
Access Road	Rubber Tired Dozers	1	8.00	247	0.40

Trips and VMT

Lower Walnut Creek Restoration - EN "Phase 4" - Bay Area AQMD Air District, Annual

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Raise	2	18.00	2.00	4,634.00	10.80	6.60	0.25	LD_Mix	HDT_Mix	HHDT
Mow	6	3.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Excavate tidal channels1	1	6.00	0.00	1,034.00	10.80	6.60	0.25	LD_Mix	HDT_Mix	HHDT
Fill	1	6.00	0.00	517.00	10.80	6.60	0.25	LD_Mix	HDT_Mix	HHDT
Excavate levee1	1	9.00	0.00	6,334.00	10.80	6.60	0.25	LD_Mix	HDT_Mix	HHDT
Haul to N	3	18.00	2.00	684.00	10.80	6.60	5.00	LD_Mix	HDT_Mix	HHDT
Excavate tidal channels2	1	6.00	0.00	684.00	10.80	6.60	0.25	LD_Mix	HDT_Mix	HHDT
Reveg	1	3.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Breach	1	3.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Access Road	2	9.00	0.00	29.00	10.80	6.60	0.25	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Mow - 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					
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	5.4000e-004	5.1000e-003	5.8400e-003	1.0000e-005		3.2000e-004	3.2000e-004		2.9000e-004	2.9000e-004	0.0000	0.6791	0.6791	2.2000e-004	0.0000	0.6846
Total	5.4000e-004	5.1000e-003	5.8400e-003	1.0000e-005	0.0000	3.2000e-004	3.2000e-004	0.0000	2.9000e-004	2.9000e-004	0.0000	0.6791	0.6791	2.2000e-004	0.0000	0.6846

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3.2 Mow - 2022

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	3.0000e-005	2.0000e-005	2.2000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0676	0.0676	0.0000	0.0000	0.0676
Total	3.0000e-005	2.0000e-005	2.2000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0676	0.0676	0.0000	0.0000	0.0676

Mitigated 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	5.4000e-004	5.1000e-003	5.8400e-003	1.0000e-005		3.2000e-004	3.2000e-004		2.9000e-004	2.9000e-004	0.0000	0.6791	0.6791	2.2000e-004	0.0000	0.6846
Total	5.4000e-004	5.1000e-003	5.8400e-003	1.0000e-005	0.0000	3.2000e-004	3.2000e-004	0.0000	2.9000e-004	2.9000e-004	0.0000	0.6791	0.6791	2.2000e-004	0.0000	0.6846

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3.2 Mow - 2022

Mitigated 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	3.0000e-005	2.0000e-005	2.2000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0676	0.0676	0.0000	0.0000	0.0676
Total	3.0000e-005	2.0000e-005	2.2000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0676	0.0676	0.0000	0.0000	0.0676

3.3 Reveg - 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					
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	1.0200e-003	0.0106	5.3600e-003	2.0000e-005		3.6000e-004	3.6000e-004		3.3000e-004	3.3000e-004	0.0000	1.9231	1.9231	6.2000e-004	0.0000	1.9386
Total	1.0200e-003	0.0106	5.3600e-003	2.0000e-005	0.0000	3.6000e-004	3.6000e-004	0.0000	3.3000e-004	3.3000e-004	0.0000	1.9231	1.9231	6.2000e-004	0.0000	1.9386

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3.3 Reveg - 2022

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	3.0000e-005	2.0000e-005	2.2000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0676	0.0676	0.0000	0.0000	0.0676
Total	3.0000e-005	2.0000e-005	2.2000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0676	0.0676	0.0000	0.0000	0.0676

Mitigated 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	1.0200e-003	0.0106	5.3600e-003	2.0000e-005		3.6000e-004	3.6000e-004		3.3000e-004	3.3000e-004	0.0000	1.9231	1.9231	6.2000e-004	0.0000	1.9386
Total	1.0200e-003	0.0106	5.3600e-003	2.0000e-005	0.0000	3.6000e-004	3.6000e-004	0.0000	3.3000e-004	3.3000e-004	0.0000	1.9231	1.9231	6.2000e-004	0.0000	1.9386

Lower Walnut Creek Restoration - EN "Phase 4" - Bay Area AQMD Air District, Annual

3.3 Reveg - 2022

Mitigated 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	3.0000e-005	2.0000e-005	2.2000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0676	0.0676	0.0000	0.0000	0.0676
Total	3.0000e-005	2.0000e-005	2.2000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0676	0.0676	0.0000	0.0000	0.0676

3.4 Fill - 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					
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	5.6000e-004	4.8900e-003	8.9500e-003	1.0000e-005		2.4000e-004	2.4000e-004		2.2000e-004	2.2000e-004	0.0000	1.2474	1.2474	4.0000e-004	0.0000	1.2575
Total	5.6000e-004	4.8900e-003	8.9500e-003	1.0000e-005	0.0000	2.4000e-004	2.4000e-004	0.0000	2.2000e-004	2.2000e-004	0.0000	1.2474	1.2474	4.0000e-004	0.0000	1.2575

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3.4 Fill - 2022

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	4.3000e-004	0.0234	3.3800e-003	3.0000e-005	6.0000e-005	1.0000e-005	7.0000e-005	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	2.6466	2.6466	3.5000e-004	0.0000	2.6554
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	9.0000e-005	6.0000e-005	6.8000e-004	0.0000	2.6000e-004	0.0000	2.6000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2124	0.2124	0.0000	0.0000	0.2125
Total	5.2000e-004	0.0235	4.0600e-003	3.0000e-005	3.2000e-004	1.0000e-005	3.3000e-004	9.0000e-005	1.0000e-005	1.0000e-004	0.0000	2.8590	2.8590	3.5000e-004	0.0000	2.8679

Mitigated 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	5.6000e-004	4.8900e-003	8.9500e-003	1.0000e-005		2.4000e-004	2.4000e-004		2.2000e-004	2.2000e-004	0.0000	1.2474	1.2474	4.0000e-004	0.0000	1.2575
Total	5.6000e-004	4.8900e-003	8.9500e-003	1.0000e-005	0.0000	2.4000e-004	2.4000e-004	0.0000	2.2000e-004	2.2000e-004	0.0000	1.2474	1.2474	4.0000e-004	0.0000	1.2575

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3.4 Fill - 2022

Mitigated 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	4.3000e-004	0.0234	3.3800e-003	3.0000e-005	6.0000e-005	1.0000e-005	7.0000e-005	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	2.6466	2.6466	3.5000e-004	0.0000	2.6554
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	9.0000e-005	6.0000e-005	6.8000e-004	0.0000	2.6000e-004	0.0000	2.6000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2124	0.2124	0.0000	0.0000	0.2125
Total	5.2000e-004	0.0235	4.0600e-003	3.0000e-005	3.2000e-004	1.0000e-005	3.3000e-004	9.0000e-005	1.0000e-005	1.0000e-004	0.0000	2.8590	2.8590	3.5000e-004	0.0000	2.8679

3.5 Raise - 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					
Fugitive Dust					0.0949	0.0000	0.0949	0.0521	0.0000	0.0521	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.7400e-003	0.1087	0.0366	1.4000e-004		3.4700e-003	3.4700e-003		3.2000e-003	3.2000e-003	0.0000	12.0537	12.0537	3.8400e-003	0.0000	12.1498
Total	8.7400e-003	0.1087	0.0366	1.4000e-004	0.0949	3.4700e-003	0.0983	0.0521	3.2000e-003	0.0553	0.0000	12.0537	12.0537	3.8400e-003	0.0000	12.1498

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3.5 Raise - 2022

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	3.8500e-003	0.2098	0.0303	2.4000e-004	5.4000e-004	1.1000e-004	6.5000e-004	1.5000e-004	1.1000e-004	2.6000e-004	0.0000	23.7225	23.7225	3.1400e-003	0.0000	23.8011
Vendor	1.8000e-004	5.9800e-003	1.4800e-003	2.0000e-005	3.7000e-004	1.0000e-005	3.9000e-004	1.1000e-004	1.0000e-005	1.2000e-004	0.0000	1.4931	1.4931	7.0000e-005	0.0000	1.4950
Worker	1.6200e-003	1.0800e-003	0.0117	4.0000e-005	4.4800e-003	3.0000e-005	4.5100e-003	1.1900e-003	3.0000e-005	1.2200e-003	0.0000	3.6487	3.6487	8.0000e-005	0.0000	3.6506
Total	5.6500e-003	0.2168	0.0435	3.0000e-004	5.3900e-003	1.5000e-004	5.5500e-003	1.4500e-003	1.5000e-004	1.6000e-003	0.0000	28.8643	28.8643	3.2900e-003	0.0000	28.9466

Mitigated 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					0.0949	0.0000	0.0949	0.0521	0.0000	0.0521	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.7400e-003	1.9800e-003	0.0366	1.4000e-004		3.4700e-003	3.4700e-003		3.2000e-003	3.2000e-003	0.0000	12.0537	12.0537	3.8400e-003	0.0000	12.1498
Total	8.7400e-003	1.9800e-003	0.0366	1.4000e-004	0.0949	3.4700e-003	0.0983	0.0521	3.2000e-003	0.0553	0.0000	12.0537	12.0537	3.8400e-003	0.0000	12.1498

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3.5 Raise - 2022

Mitigated 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	3.8500e-003	0.2098	0.0303	2.4000e-004	5.4000e-004	1.1000e-004	6.5000e-004	1.5000e-004	1.1000e-004	2.6000e-004	0.0000	23.7225	23.7225	3.1400e-003	0.0000	23.8011
Vendor	1.8000e-004	5.9800e-003	1.4800e-003	2.0000e-005	3.7000e-004	1.0000e-005	3.9000e-004	1.1000e-004	1.0000e-005	1.2000e-004	0.0000	1.4931	1.4931	7.0000e-005	0.0000	1.4950
Worker	1.6200e-003	1.0800e-003	0.0117	4.0000e-005	4.4800e-003	3.0000e-005	4.5100e-003	1.1900e-003	3.0000e-005	1.2200e-003	0.0000	3.6487	3.6487	8.0000e-005	0.0000	3.6506
Total	5.6500e-003	0.2168	0.0435	3.0000e-004	5.3900e-003	1.5000e-004	5.5500e-003	1.4500e-003	1.5000e-004	1.6000e-003	0.0000	28.8643	28.8643	3.2900e-003	0.0000	28.9466

3.6 Haul to N - 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					
Fugitive Dust					0.0158	0.0000	0.0158	8.6900e-003	0.0000	8.6900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7200e-003	0.0191	0.0136	3.0000e-005		6.9000e-004	6.9000e-004		6.4000e-004	6.4000e-004	0.0000	2.7951	2.7951	8.9000e-004	0.0000	2.8173
Total	1.7200e-003	0.0191	0.0136	3.0000e-005	0.0158	6.9000e-004	0.0165	8.6900e-003	6.4000e-004	9.3300e-003	0.0000	2.7951	2.7951	8.9000e-004	0.0000	2.8173

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3.6 Haul to N - 2022

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	1.0400e-003	0.0439	8.0400e-003	9.0000e-005	1.4500e-003	7.0000e-005	1.5200e-003	4.0000e-004	7.0000e-005	4.7000e-004	0.0000	8.7975	8.7975	6.6000e-004	0.0000	8.8140
Vendor	6.0000e-005	1.9900e-003	4.9000e-004	1.0000e-005	1.2000e-004	0.0000	1.3000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.4977	0.4977	2.0000e-005	0.0000	0.4983
Worker	5.4000e-004	3.6000e-004	3.9000e-003	1.0000e-005	1.4900e-003	1.0000e-005	1.5000e-003	4.0000e-004	1.0000e-005	4.1000e-004	0.0000	1.2162	1.2162	3.0000e-005	0.0000	1.2169
Total	1.6400e-003	0.0463	0.0124	1.1000e-004	3.0600e-003	8.0000e-005	3.1500e-003	8.4000e-004	8.0000e-005	9.2000e-004	0.0000	10.5114	10.5114	7.1000e-004	0.0000	10.5292

Mitigated 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					0.0158	0.0000	0.0158	8.6900e-003	0.0000	8.6900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7200e-003	5.3200e-003	0.0136	3.0000e-005		6.9000e-004	6.9000e-004		6.4000e-004	6.4000e-004	0.0000	2.7951	2.7951	8.9000e-004	0.0000	2.8172
Total	1.7200e-003	5.3200e-003	0.0136	3.0000e-005	0.0158	6.9000e-004	0.0165	8.6900e-003	6.4000e-004	9.3300e-003	0.0000	2.7951	2.7951	8.9000e-004	0.0000	2.8172

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3.6 Haul to N - 2022

Mitigated 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	1.0400e-003	0.0439	8.0400e-003	9.0000e-005	1.4500e-003	7.0000e-005	1.5200e-003	4.0000e-004	7.0000e-005	4.7000e-004	0.0000	8.7975	8.7975	6.6000e-004	0.0000	8.8140
Vendor	6.0000e-005	1.9900e-003	4.9000e-004	1.0000e-005	1.2000e-004	0.0000	1.3000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.4977	0.4977	2.0000e-005	0.0000	0.4983
Worker	5.4000e-004	3.6000e-004	3.9000e-003	1.0000e-005	1.4900e-003	1.0000e-005	1.5000e-003	4.0000e-004	1.0000e-005	4.1000e-004	0.0000	1.2162	1.2162	3.0000e-005	0.0000	1.2169
Total	1.6400e-003	0.0463	0.0124	1.1000e-004	3.0600e-003	8.0000e-005	3.1500e-003	8.4000e-004	8.0000e-005	9.2000e-004	0.0000	10.5114	10.5114	7.1000e-004	0.0000	10.5292

3.7 Excavate tidal channels1 - 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	7.6000e-004	6.6600e-003	0.0122	2.0000e-005		3.2000e-004	3.2000e-004		3.0000e-004	3.0000e-004	0.0000	1.7010	1.7010	5.5000e-004	0.0000	1.7148
Total	7.6000e-004	6.6600e-003	0.0122	2.0000e-005		3.2000e-004	3.2000e-004		3.0000e-004	3.0000e-004	0.0000	1.7010	1.7010	5.5000e-004	0.0000	1.7148

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3.7 Excavate tidal channels1 - 2022

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	8.6000e-004	0.0468	6.7600e-003	5.0000e-005	1.2000e-004	3.0000e-005	1.5000e-004	3.0000e-005	2.0000e-005	6.0000e-005	0.0000	5.2933	5.2933	7.0000e-004	0.0000	5.3108
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	1.7000e-004	1.1000e-004	1.2400e-003	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3861	0.3861	1.0000e-005	0.0000	0.3863
Total	1.0300e-003	0.0469	8.0000e-003	5.0000e-005	5.9000e-004	3.0000e-005	6.3000e-004	1.6000e-004	2.0000e-005	1.9000e-004	0.0000	5.6794	5.6794	7.1000e-004	0.0000	5.6971

Mitigated 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	7.6000e-004	6.6600e-003	0.0122	2.0000e-005		3.2000e-004	3.2000e-004		3.0000e-004	3.0000e-004	0.0000	1.7010	1.7010	5.5000e-004	0.0000	1.7148
Total	7.6000e-004	6.6600e-003	0.0122	2.0000e-005		3.2000e-004	3.2000e-004		3.0000e-004	3.0000e-004	0.0000	1.7010	1.7010	5.5000e-004	0.0000	1.7148

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3.7 Excavate tidal channels1 - 2022

Mitigated 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	8.6000e-004	0.0468	6.7600e-003	5.0000e-005	1.2000e-004	3.0000e-005	1.5000e-004	3.0000e-005	2.0000e-005	6.0000e-005	0.0000	5.2933	5.2933	7.0000e-004	0.0000	5.3108
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	1.7000e-004	1.1000e-004	1.2400e-003	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3861	0.3861	1.0000e-005	0.0000	0.3863
Total	1.0300e-003	0.0469	8.0000e-003	5.0000e-005	5.9000e-004	3.0000e-005	6.3000e-004	1.6000e-004	2.0000e-005	1.9000e-004	0.0000	5.6794	5.6794	7.1000e-004	0.0000	5.6971

3.8 Excavate levee1 - 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	3.9900e-003	0.0350	0.0641	1.0000e-004		1.6900e-003	1.6900e-003		1.5600e-003	1.5600e-003	0.0000	8.9304	8.9304	2.8900e-003	0.0000	9.0026
Total	3.9900e-003	0.0350	0.0641	1.0000e-004		1.6900e-003	1.6900e-003		1.5600e-003	1.5600e-003	0.0000	8.9304	8.9304	2.8900e-003	0.0000	9.0026

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3.8 Excavate levee1 - 2022

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	5.2600e-003	0.2867	0.0414	3.3000e-004	7.3000e-004	1.6000e-004	8.9000e-004	2.1000e-004	1.5000e-004	3.6000e-004	0.0000	32.4252	32.4252	4.3000e-003	0.0000	32.5326
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	8.1000e-004	5.4000e-004	5.8400e-003	2.0000e-005	2.2400e-003	1.0000e-005	2.2500e-003	6.0000e-004	1.0000e-005	6.1000e-004	0.0000	1.8243	1.8243	4.0000e-005	0.0000	1.8253
Total	6.0700e-003	0.2873	0.0472	3.5000e-004	2.9700e-003	1.7000e-004	3.1400e-003	8.1000e-004	1.6000e-004	9.7000e-004	0.0000	34.2495	34.2495	4.3400e-003	0.0000	34.3579

Mitigated 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	3.9900e-003	0.0350	0.0641	1.0000e-004		1.6900e-003	1.6900e-003		1.5600e-003	1.5600e-003	0.0000	8.9304	8.9304	2.8900e-003	0.0000	9.0026
Total	3.9900e-003	0.0350	0.0641	1.0000e-004		1.6900e-003	1.6900e-003		1.5600e-003	1.5600e-003	0.0000	8.9304	8.9304	2.8900e-003	0.0000	9.0026

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3.8 Excavate levee1 - 2022

Mitigated 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	5.2600e-003	0.2867	0.0414	3.3000e-004	7.3000e-004	1.6000e-004	8.9000e-004	2.1000e-004	1.5000e-004	3.6000e-004	0.0000	32.4252	32.4252	4.3000e-003	0.0000	32.5326
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	8.1000e-004	5.4000e-004	5.8400e-003	2.0000e-005	2.2400e-003	1.0000e-005	2.2500e-003	6.0000e-004	1.0000e-005	6.1000e-004	0.0000	1.8243	1.8243	4.0000e-005	0.0000	1.8253
Total	6.0700e-003	0.2873	0.0472	3.5000e-004	2.9700e-003	1.7000e-004	3.1400e-003	8.1000e-004	1.6000e-004	9.7000e-004	0.0000	34.2495	34.2495	4.3400e-003	0.0000	34.3579

3.9 Excavate tidal channels2 - 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	7.1000e-004	6.2200e-003	0.0114	2.0000e-005		3.0000e-004	3.0000e-004		2.8000e-004	2.8000e-004	0.0000	1.5876	1.5876	5.1000e-004	0.0000	1.6005
Total	7.1000e-004	6.2200e-003	0.0114	2.0000e-005		3.0000e-004	3.0000e-004		2.8000e-004	2.8000e-004	0.0000	1.5876	1.5876	5.1000e-004	0.0000	1.6005

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3.9 Excavate tidal channels2 - 2022

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	5.7000e-004	0.0310	4.4700e-003	4.0000e-005	8.0000e-005	2.0000e-005	1.0000e-004	2.0000e-005	2.0000e-005	4.0000e-005	0.0000	3.5016	3.5016	4.6000e-004	0.0000	3.5132
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	1.2000e-004	8.0000e-005	8.7000e-004	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2703	0.2703	1.0000e-005	0.0000	0.2704
Total	6.9000e-004	0.0310	5.3400e-003	4.0000e-005	4.1000e-004	2.0000e-005	4.3000e-004	1.1000e-004	2.0000e-005	1.3000e-004	0.0000	3.7718	3.7718	4.7000e-004	0.0000	3.7836

Mitigated 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	7.1000e-004	6.2200e-003	0.0114	2.0000e-005		3.0000e-004	3.0000e-004		2.8000e-004	2.8000e-004	0.0000	1.5876	1.5876	5.1000e-004	0.0000	1.6005
Total	7.1000e-004	6.2200e-003	0.0114	2.0000e-005		3.0000e-004	3.0000e-004		2.8000e-004	2.8000e-004	0.0000	1.5876	1.5876	5.1000e-004	0.0000	1.6005

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3.9 Excavate tidal channels2 - 2022

Mitigated 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	5.7000e-004	0.0310	4.4700e-003	4.0000e-005	8.0000e-005	2.0000e-005	1.0000e-004	2.0000e-005	2.0000e-005	4.0000e-005	0.0000	3.5016	3.5016	4.6000e-004	0.0000	3.5132
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	1.2000e-004	8.0000e-005	8.7000e-004	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2703	0.2703	1.0000e-005	0.0000	0.2704
Total	6.9000e-004	0.0310	5.3400e-003	4.0000e-005	4.1000e-004	2.0000e-005	4.3000e-004	1.1000e-004	2.0000e-005	1.3000e-004	0.0000	3.7718	3.7718	4.7000e-004	0.0000	3.7836

3.10 Breach - 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	2.0000e-004	1.7800e-003	3.2600e-003	1.0000e-005		9.0000e-005	9.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.4536	0.4536	1.5000e-004	0.0000	0.4573
Total	2.0000e-004	1.7800e-003	3.2600e-003	1.0000e-005		9.0000e-005	9.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.4536	0.4536	1.5000e-004	0.0000	0.4573

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3.10 Breach - 2022

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	1.0000e-005	1.0000e-005	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0193	0.0193	0.0000	0.0000	0.0193
Total	1.0000e-005	1.0000e-005	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0193	0.0193	0.0000	0.0000	0.0193

Mitigated 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	2.0000e-004	1.7800e-003	3.2600e-003	1.0000e-005		9.0000e-005	9.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.4536	0.4536	1.5000e-004	0.0000	0.4573
Total	2.0000e-004	1.7800e-003	3.2600e-003	1.0000e-005		9.0000e-005	9.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.4536	0.4536	1.5000e-004	0.0000	0.4573

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3.10 Breach - 2022

Mitigated 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	1.0000e-005	1.0000e-005	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0193	0.0193	0.0000	0.0000	0.0193
Total	1.0000e-005	1.0000e-005	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0193	0.0193	0.0000	0.0000	0.0193

3.11 Access Road - 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	1.0000e-003	0.0105	5.4400e-003	1.0000e-005		5.2000e-004	5.2000e-004		4.8000e-004	4.8000e-004	0.0000	0.9808	0.9808	3.2000e-004	0.0000	0.9887
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.0000e-003	0.0105	5.4400e-003	1.0000e-005		5.2000e-004	5.2000e-004		4.8000e-004	4.8000e-004	0.0000	0.9808	0.9808	3.2000e-004	0.0000	0.9887

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3.11 Access Road - 2022

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	2.0000e-005	1.3100e-003	1.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1485	0.1485	2.0000e-005	0.0000	0.1490
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	3.0000e-005	2.0000e-005	1.9000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0579	0.0579	0.0000	0.0000	0.0580
Total	5.0000e-005	1.3300e-003	3.8000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2064	0.2064	2.0000e-005	0.0000	0.2069

Mitigated 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	1.0000e-003	0.0105	5.4400e-003	1.0000e-005		5.2000e-004	5.2000e-004		4.8000e-004	4.8000e-004	0.0000	0.9808	0.9808	3.2000e-004	0.0000	0.9887
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.0000e-003	0.0105	5.4400e-003	1.0000e-005		5.2000e-004	5.2000e-004		4.8000e-004	4.8000e-004	0.0000	0.9808	0.9808	3.2000e-004	0.0000	0.9887

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3.11 Access Road - 2022

Mitigated 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	2.0000e-005	1.3100e-003	1.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1485	0.1485	2.0000e-005	0.0000	0.1490
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	3.0000e-005	2.0000e-005	1.9000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0579	0.0579	0.0000	0.0000	0.0580
Total	5.0000e-005	1.3300e-003	3.8000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2064	0.2064	2.0000e-005	0.0000	0.2069

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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	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					
Mitigated	0.6610	2.8846	7.6750	0.0287	2.5859	0.0238	2.6097	0.6941	0.0223	0.7163	0.0000	2,632.6858	2,632.6858	0.0904	0.0000	2,634.9452
Unmitigated	0.6610	2.8846	7.6750	0.0287	2.5859	0.0238	2.6097	0.6941	0.0223	0.7163	0.0000	2,632.6858	2,632.6858	0.0904	0.0000	2,634.9452

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	761.67	9,168.25	6746.22	6,948,647	6,948,647
Total	761.67	9,168.25	6,746.22	6,948,647	6,948,647

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	14.70	6.60	6.60	33.00	48.00	19.00	66	28	6

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.575198	0.040076	0.193827	0.113296	0.016988	0.005361	0.017552	0.025197	0.002581	0.002349	0.005904	0.000881	0.000789

5.0 Energy Detail

Historical Energy Use: N

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5.2 Energy by Land Use - Natural Gas

Mitigated

	Natural Gas Use	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	
Land Use	kBTU/yr	tons/yr										MT/yr						
City Park	0	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

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

	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					
Mitigated	0.2031	3.0000e-005	3.7000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.2000e-003	7.2000e-003	2.0000e-005	0.0000	7.6700e-003
Unmitigated	0.2031	3.0000e-005	3.7000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.2000e-003	7.2000e-003	2.0000e-005	0.0000	7.6700e-003

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6.2 Area by SubCategory

Unmitigated

	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
SubCategory	tons/yr										MT/yr					
Architectural Coating	4.4500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1983					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.4000e-004	3.0000e-005	3.7000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.2000e-003	7.2000e-003	2.0000e-005	0.0000	7.6700e-003
Total	0.2031	3.0000e-005	3.7000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.2000e-003	7.2000e-003	2.0000e-005	0.0000	7.6700e-003

Mitigated

	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
SubCategory	tons/yr										MT/yr					
Architectural Coating	4.4500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1983					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.4000e-004	3.0000e-005	3.7000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.2000e-003	7.2000e-003	2.0000e-005	0.0000	7.6700e-003
Total	0.2031	3.0000e-005	3.7000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.2000e-003	7.2000e-003	2.0000e-005	0.0000	7.6700e-003

7.0 Water Detail

Lower Walnut Creek Restoration - EN "Phase 4" - Bay Area AQMD Air District, Annual

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,262.6666	0.0221	4.5700e-003	1,264.5822
Unmitigated	1,262.6666	0.0221	4.5700e-003	1,264.5822

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 480.167	1,262.6666	0.0221	4.5700e-003	1,264.5822
Total		1,262.6666	0.0221	4.5700e-003	1,264.5822

Lower Walnut Creek Restoration - EN "Phase 4" - Bay Area AQMD Air District, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 480.167	1,262.6666	0.0221	4.5700e-003	1,264.5822
Total		1,262.6666	0.0221	4.5700e-003	1,264.5822

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	7.0357	0.4158	0.0000	17.4306
Unmitigated	7.0357	0.4158	0.0000	17.4306

Lower Walnut Creek Restoration - EN "Phase 4" - Bay Area AQMD Air District, Annual

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	34.66	7.0357	0.4158	0.0000	17.4306
Total		7.0357	0.4158	0.0000	17.4306

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	34.66	7.0357	0.4158	0.0000	17.4306
Total		7.0357	0.4158	0.0000	17.4306

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Lower Walnut Creek Restoration - EN "Phase 4" - Bay Area AQMD Air District, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
----------------	--------

11.0 Vegetation

Lower Walnut Creek Restoration - EN "Public Access" - Bay Area AQMD Air District, Annual

Lower Walnut Creek Restoration - EN "Public Access"
Bay Area AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	403.00	Acre	403.00	17,554,680.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	64
Climate Zone	4			Operational Year	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Lower Walnut Creek Restoration - EN "Public Access" - Bay Area AQMD Air District, Annual

Project Characteristics - Expanded North - "Pacheco Marsh Construction"

Land Use - Acreage from project description; buildings from Placeworks

Construction Phase - Project Specific "Pacheco Marsh_Public Access_Construction Estimates.xls"

Off-road Equipment - dump truck = onsite haul days

Trips and VMT - Facility main includes vendor trips for fencing/bollards

Grading - Not relevant. BAAQMD PM Thresholds for exhaust only

Off-road Equipment - water truck = vendor trip

Off-road Equipment - concrete truck = vendor trip

Off-road Equipment - assume 1 of each

Off-road Equipment - water trucks & concrete trucks = vendor trips

Off-road Equipment - Concrete truck = vendor trip

Off-road Equipment - assume one of each

Off-road Equipment - assumption from exterior CalEEMod run

Off-road Equipment - assumption from exterior CalEEMod run

Off-road Equipment - assumption from exterior CalEEMod run

Table Name	Column Name	Default Value	New Value
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tblConstructionPhase	NumDays	550.00	66.00
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tblConstructionPhase	NumDays	7,750.00	66.00
tblConstructionPhase	NumDays	7,750.00	66.00
tblConstructionPhase	NumDays	7,750.00	50.00
tblConstructionPhase	NumDays	550.00	5.00
tblConstructionPhase	NumDays	550.00	5.00
tblConstructionPhase	PhaseEndDate	7/24/2024	8/31/2023

Lower Walnut Creek Restoration - EN "Public Access" - Bay Area AQMD Air District, Annual

tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType	Cranes	Rubber Tired Dozers
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	PhaseName		Trail
tblOffRoadEquipment	PhaseName		Trail
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00

Lower Walnut Creek Restoration - EN "Public Access" - Bay Area AQMD Air District, Annual

tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripNumber	0.00	586.00
tblTripsAndVMT	HaulingTripNumber	0.00	16.00
tblTripsAndVMT	HaulingTripNumber	0.00	120.00
tblTripsAndVMT	HaulingTripNumber	0.00	16.00
tblTripsAndVMT	HaulingTripNumber	0.00	8.00
tblTripsAndVMT	HaulingTripNumber	0.00	202.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	2,877.00	2.00
tblTripsAndVMT	VendorTripNumber	2,877.00	4.00
tblTripsAndVMT	VendorTripNumber	2,877.00	2.00
tblTripsAndVMT	VendorTripNumber	2,877.00	0.00
tblTripsAndVMT	VendorTripNumber	2,877.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	5.00	18.00
tblTripsAndVMT	WorkerTripNumber	1,475.00	1.00
tblTripsAndVMT	WorkerTripNumber	7,373.00	12.00
tblTripsAndVMT	WorkerTripNumber	7,373.00	18.00
tblTripsAndVMT	WorkerTripNumber	7,373.00	12.00
tblTripsAndVMT	WorkerTripNumber	7,373.00	3.00
tblTripsAndVMT	WorkerTripNumber	7,373.00	10.00
tblTripsAndVMT	WorkerTripNumber	8.00	15.00

Lower Walnut Creek Restoration - EN "Public Access" - Bay Area AQMD Air District, Annual

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	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
Year	tons/yr										MT/yr					
2023	0.2215	1.8153	1.5920	3.4300e-003	0.0333	0.0813	0.1146	8.9900e-003	0.0748	0.0838	0.0000	306.0060	306.0060	0.0810	0.0000	308.0320
Maximum	0.2215	1.8153	1.5920	3.4300e-003	0.0333	0.0813	0.1146	8.9900e-003	0.0748	0.0838	0.0000	306.0060	306.0060	0.0810	0.0000	308.0320

Mitigated Construction

	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
Year	tons/yr										MT/yr					
2023	0.2215	1.8153	1.5920	3.4300e-003	0.0333	0.0813	0.1146	8.9900e-003	0.0748	0.0838	0.0000	306.0057	306.0057	0.0810	0.0000	308.0317
Maximum	0.2215	1.8153	1.5920	3.4300e-003	0.0333	0.0813	0.1146	8.9900e-003	0.0748	0.0838	0.0000	306.0057	306.0057	0.0810	0.0000	308.0317

Lower Walnut Creek Restoration - EN "Public Access" - Bay Area AQMD Air District, Annual

	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
Percent Reduction	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	6-1-2023	8-31-2023	1.4687	1.4687
2	9-1-2023	9-30-2023	0.2108	0.2108
		Highest	1.4687	1.4687

2.2 Overall Operational

Unmitigated Operational

	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					
Area	0.2031	3.0000e-005	3.7000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.2000e-003	7.2000e-003	2.0000e-005	0.0000	7.6700e-003
Energy	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
Mobile	0.6562	2.9315	7.6410	0.0288	2.5859	0.0235	2.6094	0.6940	0.0219	0.7160	0.0000	2,643.5046	2,643.5046	0.0906	0.0000	2,645.7702
Waste						0.0000	0.0000		0.0000	0.0000	7.0357	0.0000	7.0357	0.4158	0.0000	17.4306
Water						0.0000	0.0000		0.0000	0.0000	0.0000	488.9013	488.9013	0.0221	4.5700e-003	490.8170
Total	0.8594	2.9315	7.6447	0.0288	2.5859	0.0235	2.6094	0.6940	0.0219	0.7160	7.0357	3,132.4131	3,139.4488	0.5286	4.5700e-003	3,154.0254

Lower Walnut Creek Restoration - EN "Public Access" - Bay Area AQMD Air District, Annual

2.2 Overall Operational

Mitigated Operational

	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					
Area	0.2031	3.0000e-005	3.7000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.2000e-003	7.2000e-003	2.0000e-005	0.0000	7.6700e-003
Energy	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
Mobile	0.6562	2.9315	7.6410	0.0288	2.5859	0.0235	2.6094	0.6940	0.0219	0.7160	0.0000	2,643.5046	2,643.5046	0.0906	0.0000	2,645.7702
Waste						0.0000	0.0000		0.0000	0.0000	7.0357	0.0000	7.0357	0.4158	0.0000	17.4306
Water						0.0000	0.0000		0.0000	0.0000	0.0000	488.9013	488.9013	0.0221	4.5700e-003	490.8170
Total	0.8594	2.9315	7.6447	0.0288	2.5859	0.0235	2.6094	0.6940	0.0219	0.7160	7.0357	3,132.4131	3,139.4488	0.5286	4.5700e-003	3,154.0254

	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
Percent Reduction	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

Lower Walnut Creek Restoration - EN "Public Access" - Bay Area AQMD Air District, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Trail	Paving	6/1/2023	8/31/2023	5	66	Agg base + decomp granite surface + filter fabric
2	Prefab Bridges	Building Construction	6/1/2023	8/31/2023	5	66	Two bridges
3	Road and Parking lot	Paving	6/1/2023	8/31/2023	5	66	base and asphalt
4	Overlook + Bird Blind	Building Construction	6/1/2023	8/31/2023	5	66	Combined (same equipment, bird blind smaller task)
5	Prefab Kayak Launch + Restrooms	Building Construction	6/1/2023	8/31/2023	5	66	Combined (small tasks 1 of each)
6	Signs + Benches	Building Construction	6/1/2023	8/31/2023	5	66	Combined (small tasks 5 signs, 10 benches)
7	Facility Building-main	Building Construction	9/1/2023	11/9/2023	5	50	from CalEEMod defaults/building only
8	Facility Building-paving	Paving	11/10/2023	11/16/2023	5	5	from CalEEMod defaults/building only
9	Facility Building-arch coat	Architectural Coating	11/17/2023	11/23/2023	5	5	om CalEEMod defaults/building only

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: 12,810; Non-Residential Outdoor: 4,270; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Lower Walnut Creek Restoration - EN "Public Access" - Bay Area AQMD Air District, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Facility Building-arch coat	Air Compressors	1	8.00	78	0.48
Facility Building-paving	Cement and Mortar Mixers	4	8.00	9	0.56
Prefab Bridges	Cranes	1	8.00	231	0.29
Overlook + Bird Blind	Rubber Tired Dozers	1	8.00	247	0.40
Prefab Kayak Launch + Restrooms	Cranes	1	8.00	231	0.29
Facility Building-paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Facility Building-main	Cranes	2	8.00	231	0.29
Prefab Bridges	Forklifts	1	8.00	89	0.20
Prefab Kayak Launch + Restrooms	Forklifts	1	8.00	89	0.20
Signs + Benches	Forklifts	1	8.00	89	0.20
Facility Building-main	Forklifts	4	8.00	89	0.20
Road and Parking lot	Pavers	1	8.00	130	0.42
Facility Building-paving	Pavers	1	8.00	130	0.42
Road and Parking lot	Paving Equipment	1	8.00	132	0.36
Road and Parking lot	Rollers	1	8.00	80	0.38
Facility Building-paving	Rollers	1	8.00	80	0.38
Prefab Bridges	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Overlook + Bird Blind	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Prefab Kayak Launch + Restrooms	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Signs + Benches	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Facility Building-main	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Trail	Rubber Tired Dozers	1	8.00	247	0.40
Trail	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

Lower Walnut Creek Restoration - EN "Public Access" - Bay Area AQMD Air District, Annual

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Trail	2	18.00	2.00	586.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Facility Building-arch	1	1.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Prefab Bridges	3	12.00	2.00	16.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Overlook + Bird Blind	2	18.00	4.00	120.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Prefab Kayak Launch + Restrooms	3	12.00	2.00	16.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Signs + Benches	2	3.00	0.00	8.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Facility Building-main	10	10.00	4.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Road and Parking lot	3	15.00	0.00	202.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Facility Building-paving	7	18.00	2.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Trail - 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	0.0276	0.2859	0.1761	3.8000e-004		0.0131	0.0131		0.0120	0.0120	0.0000	33.7863	33.7863	0.0109	0.0000	34.0595
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0276	0.2859	0.1761	3.8000e-004		0.0131	0.0131		0.0120	0.0120	0.0000	33.7863	33.7863	0.0109	0.0000	34.0595

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3.2 Trail - 2023

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	1.4900e-003	0.0486	0.0150	2.2000e-004	4.9500e-003	9.0000e-005	5.0400e-003	1.3600e-003	8.0000e-005	1.4400e-003	0.0000	21.0315	21.0315	9.9000e-004	0.0000	21.0564
Vendor	1.4000e-004	4.8700e-003	1.3800e-003	2.0000e-005	3.9000e-004	1.0000e-005	4.0000e-004	1.1000e-004	1.0000e-005	1.2000e-004	0.0000	1.5201	1.5201	7.0000e-005	0.0000	1.5217
Worker	1.5900e-003	1.0100e-003	0.0113	4.0000e-005	4.6900e-003	3.0000e-005	4.7200e-003	1.2500e-003	3.0000e-005	1.2800e-003	0.0000	3.6760	3.6760	7.0000e-005	0.0000	3.6778
Total	3.2200e-003	0.0545	0.0277	2.8000e-004	0.0100	1.3000e-004	0.0102	2.7200e-003	1.2000e-004	2.8400e-003	0.0000	26.2276	26.2276	1.1300e-003	0.0000	26.2559

Mitigated 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	0.0276	0.2859	0.1761	3.8000e-004		0.0131	0.0131		0.0120	0.0120	0.0000	33.7863	33.7863	0.0109	0.0000	34.0595
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0276	0.2859	0.1761	3.8000e-004		0.0131	0.0131		0.0120	0.0120	0.0000	33.7863	33.7863	0.0109	0.0000	34.0595

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3.2 Trail - 2023

Mitigated 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	1.4900e-003	0.0486	0.0150	2.2000e-004	4.9500e-003	9.0000e-005	5.0400e-003	1.3600e-003	8.0000e-005	1.4400e-003	0.0000	21.0315	21.0315	9.9000e-004	0.0000	21.0564
Vendor	1.4000e-004	4.8700e-003	1.3800e-003	2.0000e-005	3.9000e-004	1.0000e-005	4.0000e-004	1.1000e-004	1.0000e-005	1.2000e-004	0.0000	1.5201	1.5201	7.0000e-005	0.0000	1.5217
Worker	1.5900e-003	1.0100e-003	0.0113	4.0000e-005	4.6900e-003	3.0000e-005	4.7200e-003	1.2500e-003	3.0000e-005	1.2800e-003	0.0000	3.6760	3.6760	7.0000e-005	0.0000	3.6778
Total	3.2200e-003	0.0545	0.0277	2.8000e-004	0.0100	1.3000e-004	0.0102	2.7200e-003	1.2000e-004	2.8400e-003	0.0000	26.2276	26.2276	1.1300e-003	0.0000	26.2559

3.3 Prefab Bridges - 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	0.0200	0.2083	0.1720	3.4000e-004		9.7200e-003	9.7200e-003		8.9400e-003	8.9400e-003	0.0000	30.1894	30.1894	9.7600e-003	0.0000	30.4335
Total	0.0200	0.2083	0.1720	3.4000e-004		9.7200e-003	9.7200e-003		8.9400e-003	8.9400e-003	0.0000	30.1894	30.1894	9.7600e-003	0.0000	30.4335

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3.3 Prefab Bridges - 2023

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	4.0000e-005	1.3300e-003	4.1000e-004	1.0000e-005	1.4000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.5742	0.5742	3.0000e-005	0.0000	0.5749
Vendor	1.4000e-004	4.8700e-003	1.3800e-003	2.0000e-005	3.9000e-004	1.0000e-005	4.0000e-004	1.1000e-004	1.0000e-005	1.2000e-004	0.0000	1.5201	1.5201	7.0000e-005	0.0000	1.5217
Worker	1.0600e-003	6.8000e-004	7.5100e-003	3.0000e-005	3.1300e-003	2.0000e-005	3.1500e-003	8.3000e-004	2.0000e-005	8.5000e-004	0.0000	2.4507	2.4507	5.0000e-005	0.0000	2.4519
Total	1.2400e-003	6.8800e-003	9.3000e-003	6.0000e-005	3.6600e-003	3.0000e-005	3.6900e-003	9.8000e-004	3.0000e-005	1.0100e-003	0.0000	4.5450	4.5450	1.5000e-004	0.0000	4.5485

Mitigated 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	0.0200	0.2083	0.1720	3.4000e-004		9.7200e-003	9.7200e-003		8.9400e-003	8.9400e-003	0.0000	30.1893	30.1893	9.7600e-003	0.0000	30.4334
Total	0.0200	0.2083	0.1720	3.4000e-004		9.7200e-003	9.7200e-003		8.9400e-003	8.9400e-003	0.0000	30.1893	30.1893	9.7600e-003	0.0000	30.4334

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3.3 Prefab Bridges - 2023

Mitigated 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	4.0000e-005	1.3300e-003	4.1000e-004	1.0000e-005	1.4000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.5742	0.5742	3.0000e-005	0.0000	0.5749
Vendor	1.4000e-004	4.8700e-003	1.3800e-003	2.0000e-005	3.9000e-004	1.0000e-005	4.0000e-004	1.1000e-004	1.0000e-005	1.2000e-004	0.0000	1.5201	1.5201	7.0000e-005	0.0000	1.5217
Worker	1.0600e-003	6.8000e-004	7.5100e-003	3.0000e-005	3.1300e-003	2.0000e-005	3.1500e-003	8.3000e-004	2.0000e-005	8.5000e-004	0.0000	2.4507	2.4507	5.0000e-005	0.0000	2.4519
Total	1.2400e-003	6.8800e-003	9.3000e-003	6.0000e-005	3.6600e-003	3.0000e-005	3.6900e-003	9.8000e-004	3.0000e-005	1.0100e-003	0.0000	4.5450	4.5450	1.5000e-004	0.0000	4.5485

3.4 Road and Parking lot - 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	0.0170	0.1682	0.2406	3.8000e-004		8.4200e-003	8.4200e-003		7.7400e-003	7.7400e-003	0.0000	33.0443	33.0443	0.0107	0.0000	33.3115
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0170	0.1682	0.2406	3.8000e-004		8.4200e-003	8.4200e-003		7.7400e-003	7.7400e-003	0.0000	33.0443	33.0443	0.0107	0.0000	33.3115

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3.4 Road and Parking lot - 2023

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	5.1000e-004	0.0168	5.1700e-003	7.0000e-005	1.7100e-003	3.0000e-005	1.7400e-003	4.7000e-004	3.0000e-005	5.0000e-004	0.0000	7.2498	7.2498	3.4000e-004	0.0000	7.2583
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	1.3200e-003	8.4000e-004	9.3900e-003	3.0000e-005	3.9100e-003	2.0000e-005	3.9400e-003	1.0400e-003	2.0000e-005	1.0600e-003	0.0000	3.0633	3.0633	6.0000e-005	0.0000	3.0648
Total	1.8300e-003	0.0176	0.0146	1.0000e-004	5.6200e-003	5.0000e-005	5.6800e-003	1.5100e-003	5.0000e-005	1.5600e-003	0.0000	10.3131	10.3131	4.0000e-004	0.0000	10.3232

Mitigated 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	0.0170	0.1682	0.2406	3.8000e-004		8.4200e-003	8.4200e-003		7.7400e-003	7.7400e-003	0.0000	33.0443	33.0443	0.0107	0.0000	33.3115
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0170	0.1682	0.2406	3.8000e-004		8.4200e-003	8.4200e-003		7.7400e-003	7.7400e-003	0.0000	33.0443	33.0443	0.0107	0.0000	33.3115

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3.4 Road and Parking lot - 2023

Mitigated 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	5.1000e-004	0.0168	5.1700e-003	7.0000e-005	1.7100e-003	3.0000e-005	1.7400e-003	4.7000e-004	3.0000e-005	5.0000e-004	0.0000	7.2498	7.2498	3.4000e-004	0.0000	7.2583
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	1.3200e-003	8.4000e-004	9.3900e-003	3.0000e-005	3.9100e-003	2.0000e-005	3.9400e-003	1.0400e-003	2.0000e-005	1.0600e-003	0.0000	3.0633	3.0633	6.0000e-005	0.0000	3.0648
Total	1.8300e-003	0.0176	0.0146	1.0000e-004	5.6200e-003	5.0000e-005	5.6800e-003	1.5100e-003	5.0000e-005	1.5600e-003	0.0000	10.3131	10.3131	4.0000e-004	0.0000	10.3232

3.5 Overlook + Bird Blind - 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	0.0276	0.2859	0.1761	3.8000e-004		0.0131	0.0131		0.0120	0.0120	0.0000	33.7863	33.7863	0.0109	0.0000	34.0595
Total	0.0276	0.2859	0.1761	3.8000e-004		0.0131	0.0131		0.0120	0.0120	0.0000	33.7863	33.7863	0.0109	0.0000	34.0595

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3.5 Overlook + Bird Blind - 2023

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	3.0000e-004	9.9500e-003	3.0700e-003	4.0000e-005	1.0100e-003	2.0000e-005	1.0300e-003	2.8000e-004	2.0000e-005	3.0000e-004	0.0000	4.3068	4.3068	2.0000e-004	0.0000	4.3119
Vendor	2.8000e-004	9.7500e-003	2.7700e-003	3.0000e-005	7.8000e-004	1.0000e-005	7.9000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	3.0402	3.0402	1.3000e-004	0.0000	3.0435
Worker	1.5900e-003	1.0100e-003	0.0113	4.0000e-005	4.6900e-003	3.0000e-005	4.7200e-003	1.2500e-003	3.0000e-005	1.2800e-003	0.0000	3.6760	3.6760	7.0000e-005	0.0000	3.6778
Total	2.1700e-003	0.0207	0.0171	1.1000e-004	6.4800e-003	6.0000e-005	6.5400e-003	1.7600e-003	6.0000e-005	1.8200e-003	0.0000	11.0230	11.0230	4.0000e-004	0.0000	11.0332

Mitigated 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	0.0276	0.2859	0.1761	3.8000e-004		0.0131	0.0131		0.0120	0.0120	0.0000	33.7863	33.7863	0.0109	0.0000	34.0595
Total	0.0276	0.2859	0.1761	3.8000e-004		0.0131	0.0131		0.0120	0.0120	0.0000	33.7863	33.7863	0.0109	0.0000	34.0595

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3.5 Overlook + Bird Blind - 2023

Mitigated 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	3.0000e-004	9.9500e-003	3.0700e-003	4.0000e-005	1.0100e-003	2.0000e-005	1.0300e-003	2.8000e-004	2.0000e-005	3.0000e-004	0.0000	4.3068	4.3068	2.0000e-004	0.0000	4.3119
Vendor	2.8000e-004	9.7500e-003	2.7700e-003	3.0000e-005	7.8000e-004	1.0000e-005	7.9000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	3.0402	3.0402	1.3000e-004	0.0000	3.0435
Worker	1.5900e-003	1.0100e-003	0.0113	4.0000e-005	4.6900e-003	3.0000e-005	4.7200e-003	1.2500e-003	3.0000e-005	1.2800e-003	0.0000	3.6760	3.6760	7.0000e-005	0.0000	3.6778
Total	2.1700e-003	0.0207	0.0171	1.1000e-004	6.4800e-003	6.0000e-005	6.5400e-003	1.7600e-003	6.0000e-005	1.8200e-003	0.0000	11.0230	11.0230	4.0000e-004	0.0000	11.0332

3.6 Prefab Kayak Launch + Restrooms - 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	0.0200	0.2083	0.1720	3.4000e-004		9.7200e-003	9.7200e-003		8.9400e-003	8.9400e-003	0.0000	30.1894	30.1894	9.7600e-003	0.0000	30.4335
Total	0.0200	0.2083	0.1720	3.4000e-004		9.7200e-003	9.7200e-003		8.9400e-003	8.9400e-003	0.0000	30.1894	30.1894	9.7600e-003	0.0000	30.4335

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3.6 Prefab Kayak Launch + Restrooms - 2023

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	4.0000e-005	1.3300e-003	4.1000e-004	1.0000e-005	1.4000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.5742	0.5742	3.0000e-005	0.0000	0.5749
Vendor	1.4000e-004	4.8700e-003	1.3800e-003	2.0000e-005	3.9000e-004	1.0000e-005	4.0000e-004	1.1000e-004	1.0000e-005	1.2000e-004	0.0000	1.5201	1.5201	7.0000e-005	0.0000	1.5217
Worker	1.0600e-003	6.8000e-004	7.5100e-003	3.0000e-005	3.1300e-003	2.0000e-005	3.1500e-003	8.3000e-004	2.0000e-005	8.5000e-004	0.0000	2.4507	2.4507	5.0000e-005	0.0000	2.4519
Total	1.2400e-003	6.8800e-003	9.3000e-003	6.0000e-005	3.6600e-003	3.0000e-005	3.6900e-003	9.8000e-004	3.0000e-005	1.0100e-003	0.0000	4.5450	4.5450	1.5000e-004	0.0000	4.5485

Mitigated 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	0.0200	0.2083	0.1720	3.4000e-004		9.7200e-003	9.7200e-003		8.9400e-003	8.9400e-003	0.0000	30.1893	30.1893	9.7600e-003	0.0000	30.4334
Total	0.0200	0.2083	0.1720	3.4000e-004		9.7200e-003	9.7200e-003		8.9400e-003	8.9400e-003	0.0000	30.1893	30.1893	9.7600e-003	0.0000	30.4334

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3.6 Prefab Kayak Launch + Restrooms - 2023

Mitigated 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	4.0000e-005	1.3300e-003	4.1000e-004	1.0000e-005	1.4000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.5742	0.5742	3.0000e-005	0.0000	0.5749
Vendor	1.4000e-004	4.8700e-003	1.3800e-003	2.0000e-005	3.9000e-004	1.0000e-005	4.0000e-004	1.1000e-004	1.0000e-005	1.2000e-004	0.0000	1.5201	1.5201	7.0000e-005	0.0000	1.5217
Worker	1.0600e-003	6.8000e-004	7.5100e-003	3.0000e-005	3.1300e-003	2.0000e-005	3.1500e-003	8.3000e-004	2.0000e-005	8.5000e-004	0.0000	2.4507	2.4507	5.0000e-005	0.0000	2.4519
Total	1.2400e-003	6.8800e-003	9.3000e-003	6.0000e-005	3.6600e-003	3.0000e-005	3.6900e-003	9.8000e-004	3.0000e-005	1.0100e-003	0.0000	4.5450	4.5450	1.5000e-004	0.0000	4.5485

3.7 Signs + Benches - 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	8.3800e-003	0.0824	0.1114	1.5000e-004		4.4600e-003	4.4600e-003		4.1000e-003	4.1000e-003	0.0000	13.4599	13.4599	4.3500e-003	0.0000	13.5688
Total	8.3800e-003	0.0824	0.1114	1.5000e-004		4.4600e-003	4.4600e-003		4.1000e-003	4.1000e-003	0.0000	13.4599	13.4599	4.3500e-003	0.0000	13.5688

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3.7 Signs + Benches - 2023

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	2.0000e-005	6.6000e-004	2.0000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2871	0.2871	1.0000e-005	0.0000	0.2875
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	2.6000e-004	1.7000e-004	1.8800e-003	1.0000e-005	7.8000e-004	0.0000	7.9000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6127	0.6127	1.0000e-005	0.0000	0.6130
Total	2.8000e-004	8.3000e-004	2.0800e-003	1.0000e-005	8.5000e-004	0.0000	8.6000e-004	2.3000e-004	0.0000	2.3000e-004	0.0000	0.8998	0.8998	2.0000e-005	0.0000	0.9004

Mitigated 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	8.3800e-003	0.0824	0.1114	1.5000e-004		4.4600e-003	4.4600e-003		4.1000e-003	4.1000e-003	0.0000	13.4599	13.4599	4.3500e-003	0.0000	13.5688
Total	8.3800e-003	0.0824	0.1114	1.5000e-004		4.4600e-003	4.4600e-003		4.1000e-003	4.1000e-003	0.0000	13.4599	13.4599	4.3500e-003	0.0000	13.5688

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3.7 Signs + Benches - 2023

Mitigated 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	2.0000e-005	6.6000e-004	2.0000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2871	0.2871	1.0000e-005	0.0000	0.2875
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	2.6000e-004	1.7000e-004	1.8800e-003	1.0000e-005	7.8000e-004	0.0000	7.9000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6127	0.6127	1.0000e-005	0.0000	0.6130
Total	2.8000e-004	8.3000e-004	2.0800e-003	1.0000e-005	8.5000e-004	0.0000	8.6000e-004	2.3000e-004	0.0000	2.3000e-004	0.0000	0.8998	0.8998	2.0000e-005	0.0000	0.9004

3.8 Facility Building-main - 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	0.0430	0.4403	0.4293	7.5000e-004		0.0215	0.0215		0.0198	0.0198	0.0000	66.1353	66.1353	0.0214	0.0000	66.6700
Total	0.0430	0.4403	0.4293	7.5000e-004		0.0215	0.0215		0.0198	0.0198	0.0000	66.1353	66.1353	0.0214	0.0000	66.6700

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3.8 Facility Building-main - 2023

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	2.1000e-004	7.3800e-003	2.1000e-003	2.0000e-005	5.9000e-004	1.0000e-005	6.0000e-004	1.7000e-004	1.0000e-005	1.8000e-004	0.0000	2.3032	2.3032	1.0000e-004	0.0000	2.3057
Worker	6.7000e-004	4.3000e-004	4.7400e-003	2.0000e-005	1.9800e-003	1.0000e-005	1.9900e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.5471	1.5471	3.0000e-005	0.0000	1.5479
Total	8.8000e-004	7.8100e-003	6.8400e-003	4.0000e-005	2.5700e-003	2.0000e-005	2.5900e-003	7.0000e-004	2.0000e-005	7.2000e-004	0.0000	3.8503	3.8503	1.3000e-004	0.0000	3.8536

Mitigated 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	0.0430	0.4403	0.4293	7.5000e-004		0.0215	0.0215		0.0198	0.0198	0.0000	66.1352	66.1352	0.0214	0.0000	66.6700
Total	0.0430	0.4403	0.4293	7.5000e-004		0.0215	0.0215		0.0198	0.0198	0.0000	66.1352	66.1352	0.0214	0.0000	66.6700

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3.8 Facility Building-main - 2023

Mitigated 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	2.1000e-004	7.3800e-003	2.1000e-003	2.0000e-005	5.9000e-004	1.0000e-005	6.0000e-004	1.7000e-004	1.0000e-005	1.8000e-004	0.0000	2.3032	2.3032	1.0000e-004	0.0000	2.3057
Worker	6.7000e-004	4.3000e-004	4.7400e-003	2.0000e-005	1.9800e-003	1.0000e-005	1.9900e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.5471	1.5471	3.0000e-005	0.0000	1.5479
Total	8.8000e-004	7.8100e-003	6.8400e-003	4.0000e-005	2.5700e-003	2.0000e-005	2.5900e-003	7.0000e-004	2.0000e-005	7.2000e-004	0.0000	3.8503	3.8503	1.3000e-004	0.0000	3.8536

3.9 Facility Building-paving - 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	1.8300e-003	0.0163	0.0205	3.0000e-005		7.8000e-004	7.8000e-004		7.2000e-004	7.2000e-004	0.0000	2.7510	2.7510	7.9000e-004	0.0000	2.7707
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.8300e-003	0.0163	0.0205	3.0000e-005		7.8000e-004	7.8000e-004		7.2000e-004	7.2000e-004	0.0000	2.7510	2.7510	7.9000e-004	0.0000	2.7707

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3.9 Facility Building-paving - 2023

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	1.0000e-005	3.7000e-004	1.0000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1152	0.1152	0.0000	0.0000	0.1153
Worker	1.2000e-004	8.0000e-005	8.5000e-004	0.0000	3.6000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.2785	0.2785	1.0000e-005	0.0000	0.2786
Total	1.3000e-004	4.5000e-004	9.5000e-004	0.0000	3.9000e-004	0.0000	3.9000e-004	1.0000e-004	0.0000	1.1000e-004	0.0000	0.3937	0.3937	1.0000e-005	0.0000	0.3939

Mitigated 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	1.8300e-003	0.0163	0.0205	3.0000e-005		7.8000e-004	7.8000e-004		7.2000e-004	7.2000e-004	0.0000	2.7510	2.7510	7.9000e-004	0.0000	2.7707
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.8300e-003	0.0163	0.0205	3.0000e-005		7.8000e-004	7.8000e-004		7.2000e-004	7.2000e-004	0.0000	2.7510	2.7510	7.9000e-004	0.0000	2.7707

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3.9 Facility Building-paving - 2023

Mitigated 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	1.0000e-005	3.7000e-004	1.0000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1152	0.1152	0.0000	0.0000	0.1153
Worker	1.2000e-004	8.0000e-005	8.5000e-004	0.0000	3.6000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.2785	0.2785	1.0000e-005	0.0000	0.2786
Total	1.3000e-004	4.5000e-004	9.5000e-004	0.0000	3.9000e-004	0.0000	3.9000e-004	1.0000e-004	0.0000	1.1000e-004	0.0000	0.3937	0.3937	1.0000e-005	0.0000	0.3939

3.10 Facility Building-arch coat - 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	0.0445					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.4000e-004	4.3400e-003	6.0400e-003	1.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004	0.0000	0.8511	0.8511	5.0000e-005	0.0000	0.8524
Total	0.0452	4.3400e-003	6.0400e-003	1.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004	0.0000	0.8511	0.8511	5.0000e-005	0.0000	0.8524

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3.10 Facility Building-arch coat - 2023

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	1.0000e-005	0.0000	5.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0155	0.0155	0.0000	0.0000	0.0155
Total	1.0000e-005	0.0000	5.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0155	0.0155	0.0000	0.0000	0.0155

Mitigated 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	0.0445					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.4000e-004	4.3400e-003	6.0400e-003	1.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004	0.0000	0.8511	0.8511	5.0000e-005	0.0000	0.8524
Total	0.0452	4.3400e-003	6.0400e-003	1.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004	0.0000	0.8511	0.8511	5.0000e-005	0.0000	0.8524

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3.10 Facility Building-arch coat - 2023

Mitigated 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	1.0000e-005	0.0000	5.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0155	0.0155	0.0000	0.0000	0.0155
Total	1.0000e-005	0.0000	5.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0155	0.0155	0.0000	0.0000	0.0155

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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	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					
Mitigated	0.6562	2.9315	7.6410	0.0288	2.5859	0.0235	2.6094	0.6940	0.0219	0.7160	0.0000	2,643.5046	2,643.5046	0.0906	0.0000	2,645.7702
Unmitigated	0.6562	2.9315	7.6410	0.0288	2.5859	0.0235	2.6094	0.6940	0.0219	0.7160	0.0000	2,643.5046	2,643.5046	0.0906	0.0000	2,645.7702

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	761.67	9,168.25	6746.22	6,948,647	6,948,647
Total	761.67	9,168.25	6,746.22	6,948,647	6,948,647

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	14.70	6.60	6.60	33.00	48.00	19.00	66	28	6

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.578638	0.038775	0.193686	0.110919	0.015677	0.005341	0.018293	0.026358	0.002641	0.002200	0.005832	0.000891	0.000749

5.0 Energy Detail

Historical Energy Use: N

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5.2 Energy by Land Use - Natural Gas

Mitigated

	Natural Gas Use	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
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	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

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

	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					
Mitigated	0.2031	3.0000e-005	3.7000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.2000e-003	7.2000e-003	2.0000e-005	0.0000	7.6700e-003
Unmitigated	0.2031	3.0000e-005	3.7000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.2000e-003	7.2000e-003	2.0000e-005	0.0000	7.6700e-003

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6.2 Area by SubCategory

Unmitigated

	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
SubCategory	tons/yr										MT/yr					
Architectural Coating	4.4500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1983					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.4000e-004	3.0000e-005	3.7000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.2000e-003	7.2000e-003	2.0000e-005	0.0000	7.6700e-003
Total	0.2031	3.0000e-005	3.7000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.2000e-003	7.2000e-003	2.0000e-005	0.0000	7.6700e-003

Mitigated

	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
SubCategory	tons/yr										MT/yr					
Architectural Coating	4.4500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1983					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.4000e-004	3.0000e-005	3.7000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.2000e-003	7.2000e-003	2.0000e-005	0.0000	7.6700e-003
Total	0.2031	3.0000e-005	3.7000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.2000e-003	7.2000e-003	2.0000e-005	0.0000	7.6700e-003

7.0 Water Detail

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7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	488.9013	0.0221	4.5700e-003	490.8170
Unmitigated	488.9013	0.0221	4.5700e-003	490.8170

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 480.167	488.9013	0.0221	4.5700e-003	490.8170
Total		488.9013	0.0221	4.5700e-003	490.8170

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 480.167	488.9013	0.0221	4.5700e-003	490.8170
Total		488.9013	0.0221	4.5700e-003	490.8170

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	7.0357	0.4158	0.0000	17.4306
Unmitigated	7.0357	0.4158	0.0000	17.4306

Lower Walnut Creek Restoration - EN "Public Access" - Bay Area AQMD Air District, Annual

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	34.66	7.0357	0.4158	0.0000	17.4306
Total		7.0357	0.4158	0.0000	17.4306

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	34.66	7.0357	0.4158	0.0000	17.4306
Total		7.0357	0.4158	0.0000	17.4306

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Lower Walnut Creek Restoration - EN "Public Access" - Bay Area AQMD Air District, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Lower Walnut Creek Restoration - EN "Public Access" - Bay Area AQMD Air District, Annual

Lower Walnut Creek Restoration - EN "Public Access"
Bay Area AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	11.70	Acre	11.70	509,652.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	64
Climate Zone	4			Operational Year	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics - Expanded North - "Pacheco Marsh Construction" for operational only

Land Use - Acreage from project description (11.7 acres developed); buildings from Placeworks

Construction Phase - Project Specific "Pacheco Marsh_Public Access_Construction Estimates.xls"

Off-road Equipment - dump truck = onsite haul days

Off-road Equipment - assumption from exterior CalEEMod run

Off-road Equipment - assumption from exterior CalEEMod run

Off-road Equipment - assumption from exterior CalEEMod run

Trips and VMT - Facility main includes vendor trips for fencing/bollards

Grading - Not relevant. BAAQMD PM Thresholds for exhaust only

Vehicle Trips - total annual trips = 13000

Lower Walnut Creek Restoration - EN "Public Access" - Bay Area AQMD Air District, Annual

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	2,000.00	4,270.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	6,000.00	12,810.00
tblAreaCoating	Area_Nonresidential_Exterior	2000	4270
tblAreaCoating	Area_Nonresidential_Interior	6000	12810
tblConstructionPhase	NumDays	20.00	5.00
tblConstructionPhase	NumDays	300.00	50.00
tblConstructionPhase	NumDays	20.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	1.01	34.66
tblTripsAndVMT	VendorTripNumber	84.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	214.00	10.00
tblTripsAndVMT	WorkerTripNumber	43.00	1.00
tblVehicleTrips	ST_TR	22.75	9.93
tblVehicleTrips	SU_TR	16.74	7.30
tblVehicleTrips	WD_TR	1.89	0.82
tblWater	OutdoorWaterUseRate	13,940,331.79	480,166,983.91

Lower Walnut Creek Restoration - EN "Public Access" - Bay Area AQMD Air District, Annual

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	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
Year	tons/yr										MT/yr					
2023	0.0910	0.4692	0.4637	8.4000e-004	2.9700e-003	0.0225	0.0255	8.1000e-004	0.0207	0.0216	0.0000	73.9968	73.9968	0.0224	0.0000	74.5560
Maximum	0.0910	0.4692	0.4637	8.4000e-004	2.9700e-003	0.0225	0.0255	8.1000e-004	0.0207	0.0216	0.0000	73.9968	73.9968	0.0224	0.0000	74.5560

Mitigated Construction

	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
Year	tons/yr										MT/yr					
2023	0.0910	0.4692	0.4637	8.4000e-004	2.9700e-003	0.0225	0.0255	8.1000e-004	0.0207	0.0216	0.0000	73.9967	73.9967	0.0224	0.0000	74.5560
Maximum	0.0910	0.4692	0.4637	8.4000e-004	2.9700e-003	0.0225	0.0255	8.1000e-004	0.0207	0.0216	0.0000	73.9967	73.9967	0.0224	0.0000	74.5560

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	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
Percent Reduction	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)
2	9-1-2023	9-30-2023	0.2108	0.2108
		Highest	0.2108	0.2108

2.2 Overall Operational

Unmitigated Operational

	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					
Area	0.0248	0.0000	1.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.1000e-004	2.1000e-004	0.0000	0.0000	2.2000e-004
Energy	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
Mobile	8.3100e-003	0.0371	0.0968	3.6000e-004	0.0328	3.0000e-004	0.0331	8.7900e-003	2.8000e-004	9.0700e-003	0.0000	33.4838	33.4838	1.1500e-003	0.0000	33.5125
Waste						0.0000	0.0000		0.0000	0.0000	7.0357	0.0000	7.0357	0.4158	0.0000	17.4306
Water						0.0000	0.0000		0.0000	0.0000	0.0000	488.9013	488.9013	0.0221	4.5700e-003	490.8170
Total	0.0332	0.0371	0.0969	3.6000e-004	0.0328	3.0000e-004	0.0331	8.7900e-003	2.8000e-004	9.0700e-003	7.0357	522.3853	529.4210	0.4391	4.5700e-003	541.7602

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2.2 Overall Operational

Mitigated Operational

	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					
Area	0.0248	0.0000	1.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.1000e-004	2.1000e-004	0.0000	0.0000	2.2000e-004
Energy	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
Mobile	8.3100e-003	0.0371	0.0968	3.6000e-004	0.0328	3.0000e-004	0.0331	8.7900e-003	2.8000e-004	9.0700e-003	0.0000	33.4838	33.4838	1.1500e-003	0.0000	33.5125
Waste						0.0000	0.0000		0.0000	0.0000	7.0357	0.0000	7.0357	0.4158	0.0000	17.4306
Water						0.0000	0.0000		0.0000	0.0000	0.0000	488.9013	488.9013	0.0221	4.5700e-003	490.8170
Total	0.0332	0.0371	0.0969	3.6000e-004	0.0328	3.0000e-004	0.0331	8.7900e-003	2.8000e-004	9.0700e-003	7.0357	522.3853	529.4210	0.4391	4.5700e-003	541.7602

	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
Percent Reduction	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

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Facility Building-main	Building Construction	9/1/2023	11/9/2023	5	50	from CalEEMod defaults/building only
2	Facility Building-paving	Paving	11/10/2023	11/16/2023	5	5	from CalEEMod defaults/building only
3	Facility Building-arch coat	Architectural Coating	11/17/2023	11/23/2023	5	5	om CalEEMod defaults/building only

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: 12,810; Non-Residential Outdoor: 4,270; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Facility Building-main	Cranes	2	8.00	231	0.29
Facility Building-main	Forklifts	4	8.00	89	0.20
Facility Building-main	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Facility Building-paving	Cement and Mortar Mixers	4	8.00	9	0.56
Facility Building-paving	Pavers	1	8.00	130	0.42
Facility Building-paving	Rollers	1	8.00	80	0.38
Facility Building-paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Facility Building-arch coat	Air Compressors	1	8.00	78	0.48

Trips and VMT

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Facility Building-main	10	10.00	4.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Facility Building-paving	7	18.00	2.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Facility Building-arch coat	1	1.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Facility Building-main - 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	0.0430	0.4403	0.4293	7.5000e-004		0.0215	0.0215		0.0198	0.0198	0.0000	66.1353	66.1353	0.0214	0.0000	66.6700
Total	0.0430	0.4403	0.4293	7.5000e-004		0.0215	0.0215		0.0198	0.0198	0.0000	66.1353	66.1353	0.0214	0.0000	66.6700

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3.2 Facility Building-main - 2023

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	2.1000e-004	7.3800e-003	2.1000e-003	2.0000e-005	5.9000e-004	1.0000e-005	6.0000e-004	1.7000e-004	1.0000e-005	1.8000e-004	0.0000	2.3032	2.3032	1.0000e-004	0.0000	2.3057
Worker	6.7000e-004	4.3000e-004	4.7400e-003	2.0000e-005	1.9800e-003	1.0000e-005	1.9900e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.5471	1.5471	3.0000e-005	0.0000	1.5479
Total	8.8000e-004	7.8100e-003	6.8400e-003	4.0000e-005	2.5700e-003	2.0000e-005	2.5900e-003	7.0000e-004	2.0000e-005	7.2000e-004	0.0000	3.8503	3.8503	1.3000e-004	0.0000	3.8536

Mitigated 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	0.0430	0.4403	0.4293	7.5000e-004		0.0215	0.0215		0.0198	0.0198	0.0000	66.1352	66.1352	0.0214	0.0000	66.6700
Total	0.0430	0.4403	0.4293	7.5000e-004		0.0215	0.0215		0.0198	0.0198	0.0000	66.1352	66.1352	0.0214	0.0000	66.6700

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3.2 Facility Building-main - 2023

Mitigated 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	2.1000e-004	7.3800e-003	2.1000e-003	2.0000e-005	5.9000e-004	1.0000e-005	6.0000e-004	1.7000e-004	1.0000e-005	1.8000e-004	0.0000	2.3032	2.3032	1.0000e-004	0.0000	2.3057
Worker	6.7000e-004	4.3000e-004	4.7400e-003	2.0000e-005	1.9800e-003	1.0000e-005	1.9900e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.5471	1.5471	3.0000e-005	0.0000	1.5479
Total	8.8000e-004	7.8100e-003	6.8400e-003	4.0000e-005	2.5700e-003	2.0000e-005	2.5900e-003	7.0000e-004	2.0000e-005	7.2000e-004	0.0000	3.8503	3.8503	1.3000e-004	0.0000	3.8536

3.3 Facility Building-paving - 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	1.8300e-003	0.0163	0.0205	3.0000e-005		7.8000e-004	7.8000e-004		7.2000e-004	7.2000e-004	0.0000	2.7510	2.7510	7.9000e-004	0.0000	2.7707
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.8300e-003	0.0163	0.0205	3.0000e-005		7.8000e-004	7.8000e-004		7.2000e-004	7.2000e-004	0.0000	2.7510	2.7510	7.9000e-004	0.0000	2.7707

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3.3 Facility Building-paving - 2023

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	1.0000e-005	3.7000e-004	1.0000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1152	0.1152	0.0000	0.0000	0.1153
Worker	1.2000e-004	8.0000e-005	8.5000e-004	0.0000	3.6000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.2785	0.2785	1.0000e-005	0.0000	0.2786
Total	1.3000e-004	4.5000e-004	9.5000e-004	0.0000	3.9000e-004	0.0000	3.9000e-004	1.0000e-004	0.0000	1.1000e-004	0.0000	0.3937	0.3937	1.0000e-005	0.0000	0.3939

Mitigated 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	1.8300e-003	0.0163	0.0205	3.0000e-005		7.8000e-004	7.8000e-004		7.2000e-004	7.2000e-004	0.0000	2.7510	2.7510	7.9000e-004	0.0000	2.7707
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.8300e-003	0.0163	0.0205	3.0000e-005		7.8000e-004	7.8000e-004		7.2000e-004	7.2000e-004	0.0000	2.7510	2.7510	7.9000e-004	0.0000	2.7707

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3.3 Facility Building-paving - 2023

Mitigated 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	1.0000e-005	3.7000e-004	1.0000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1152	0.1152	0.0000	0.0000	0.1153
Worker	1.2000e-004	8.0000e-005	8.5000e-004	0.0000	3.6000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.2785	0.2785	1.0000e-005	0.0000	0.2786
Total	1.3000e-004	4.5000e-004	9.5000e-004	0.0000	3.9000e-004	0.0000	3.9000e-004	1.0000e-004	0.0000	1.1000e-004	0.0000	0.3937	0.3937	1.0000e-005	0.0000	0.3939

3.4 Facility Building-arch coat - 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	0.0445					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.4000e-004	4.3400e-003	6.0400e-003	1.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004	0.0000	0.8511	0.8511	5.0000e-005	0.0000	0.8524
Total	0.0452	4.3400e-003	6.0400e-003	1.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004	0.0000	0.8511	0.8511	5.0000e-005	0.0000	0.8524

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3.4 Facility Building-arch coat - 2023

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	1.0000e-005	0.0000	5.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0155	0.0155	0.0000	0.0000	0.0155
Total	1.0000e-005	0.0000	5.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0155	0.0155	0.0000	0.0000	0.0155

Mitigated 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	0.0445					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.4000e-004	4.3400e-003	6.0400e-003	1.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004	0.0000	0.8511	0.8511	5.0000e-005	0.0000	0.8524
Total	0.0452	4.3400e-003	6.0400e-003	1.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004	0.0000	0.8511	0.8511	5.0000e-005	0.0000	0.8524

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3.4 Facility Building-arch coat - 2023

Mitigated 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	1.0000e-005	0.0000	5.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0155	0.0155	0.0000	0.0000	0.0155
Total	1.0000e-005	0.0000	5.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0155	0.0155	0.0000	0.0000	0.0155

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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	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					
Mitigated	8.3100e-003	0.0371	0.0968	3.6000e-004	0.0328	3.0000e-004	0.0331	8.7900e-003	2.8000e-004	9.0700e-003	0.0000	33.4838	33.4838	1.1500e-003	0.0000	33.5125
Unmitigated	8.3100e-003	0.0371	0.0968	3.6000e-004	0.0328	3.0000e-004	0.0331	8.7900e-003	2.8000e-004	9.0700e-003	0.0000	33.4838	33.4838	1.1500e-003	0.0000	33.5125

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	9.65	116.13	85.45	88,015	88,015
Total	9.65	116.13	85.45	88,015	88,015

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	14.70	6.60	6.60	33.00	48.00	19.00	66	28	6

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.578638	0.038775	0.193686	0.110919	0.015677	0.005341	0.018293	0.026358	0.002641	0.002200	0.005832	0.000891	0.000749

5.0 Energy Detail

Historical Energy Use: N

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5.2 Energy by Land Use - Natural Gas

Mitigated

	Natural Gas Use	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	
Land Use	kBTU/yr	tons/yr										MT/yr						
City Park	0	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

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

	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					
Mitigated	0.0248	0.0000	1.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.1000e-004	2.1000e-004	0.0000	0.0000	2.2000e-004
Unmitigated	0.0248	0.0000	1.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.1000e-004	2.1000e-004	0.0000	0.0000	2.2000e-004

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6.2 Area by SubCategory

Unmitigated

	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
SubCategory	tons/yr										MT/yr					
Architectural Coating	4.4500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0204					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	1.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.1000e-004	2.1000e-004	0.0000	0.0000	2.2000e-004
Total	0.0248	0.0000	1.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.1000e-004	2.1000e-004	0.0000	0.0000	2.2000e-004

Mitigated

	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
SubCategory	tons/yr										MT/yr					
Architectural Coating	4.4500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0204					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	1.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.1000e-004	2.1000e-004	0.0000	0.0000	2.2000e-004
Total	0.0248	0.0000	1.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.1000e-004	2.1000e-004	0.0000	0.0000	2.2000e-004

7.0 Water Detail

Lower Walnut Creek Restoration - EN "Public Access" - Bay Area AQMD Air District, Annual

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	488.9013	0.0221	4.5700e-003	490.8170
Unmitigated	488.9013	0.0221	4.5700e-003	490.8170

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 480.167	488.9013	0.0221	4.5700e-003	490.8170
Total		488.9013	0.0221	4.5700e-003	490.8170

Lower Walnut Creek Restoration - EN "Public Access" - Bay Area AQMD Air District, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 480.167	488.9013	0.0221	4.5700e-003	490.8170
Total		488.9013	0.0221	4.5700e-003	490.8170

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	7.0357	0.4158	0.0000	17.4306
Unmitigated	7.0357	0.4158	0.0000	17.4306

Lower Walnut Creek Restoration - EN "Public Access" - Bay Area AQMD Air District, Annual

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	34.66	7.0357	0.4158	0.0000	17.4306
Total		7.0357	0.4158	0.0000	17.4306

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	34.66	7.0357	0.4158	0.0000	17.4306
Total		7.0357	0.4158	0.0000	17.4306

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Lower Walnut Creek Restoration - EN "Public Access" - Bay Area AQMD Air District, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Lower Walnut Creek Restoration - EN "Public Access" - Bay Area AQMD Air District, Annual

Lower Walnut Creek Restoration - EN "Public Access"
Bay Area AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Library	4.00	1000sqft	0.09	4,000.00	0
	0.00		0.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	64
Climate Zone	4			Operational Year	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Lower Walnut Creek Restoration - EN "Public Access" - Bay Area AQMD Air District, Annual

Project Characteristics - Expanded North - "Pacheco Marsh Construction" for operational of public access building only

Land Use - From project description 3600 sq ft education center and 400 sq ft bathroom

Construction Phase - Project Specific "Pacheco Marsh_Public Access_Construction Estimates.xls"

Off-road Equipment - dump truck = onsite haul days

Off-road Equipment - assumption from exterior CalEEMod run

Off-road Equipment - assumption from exterior CalEEMod run

Off-road Equipment - assumption from exterior CalEEMod run

Trips and VMT - Facility main includes vendor trips for fencing/bollards

Grading - Not relevant. BAAQMD PM Thresholds for exhaust only

Energy Use -

Table Name	Column Name	Default Value	New Value
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural

2.0 Emissions Summary

Lower Walnut Creek Restoration - EN "Public Access" - Bay Area AQMD Air District, Annual

Historical Energy Use: N

5.1 Mitigation Measures Energy

	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					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	9.6117	9.6117	4.3000e-004	9.0000e-005	9.6494
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	9.6117	9.6117	4.3000e-004	9.0000e-005	9.6494
NaturalGas Mitigated	5.7000e-004	5.1700e-003	4.3400e-003	3.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	5.6310	5.6310	1.1000e-004	1.0000e-004	5.6644
NaturalGas Unmitigated	5.7000e-004	5.1700e-003	4.3400e-003	3.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	5.6310	5.6310	1.1000e-004	1.0000e-004	5.6644

Lower Walnut Creek Restoration - EN "Public Access" - Bay Area AQMD Air District, Annual

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	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
Land Use	kBTU/yr	tons/yr										MT/yr					
Library	105520	5.7000e-004	5.1700e-003	4.3400e-003	3.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	5.6310	5.6310	1.1000e-004	1.0000e-004	5.6644
Total		5.7000e-004	5.1700e-003	4.3400e-003	3.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	5.6310	5.6310	1.1000e-004	1.0000e-004	5.6644

Mitigated

	NaturalGas Use	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
Land Use	kBTU/yr	tons/yr										MT/yr					
Library	105520	5.7000e-004	5.1700e-003	4.3400e-003	3.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	5.6310	5.6310	1.1000e-004	1.0000e-004	5.6644
Total		5.7000e-004	5.1700e-003	4.3400e-003	3.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	5.6310	5.6310	1.1000e-004	1.0000e-004	5.6644

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Library	33040	9.6117	4.3000e-004	9.0000e-005	9.6494
Total		9.6117	4.3000e-004	9.0000e-005	9.6494

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Library	33040	9.6117	4.3000e-004	9.0000e-005	9.6494
Total		9.6117	4.3000e-004	9.0000e-005	9.6494

6.0 Area Detail

6.1 Mitigation Measures Area