

# Eastridge to BART Regional Connector

Draft Second Supplemental  
Environmental Impact Report  
Volume II: Technical Appendices



*Existing Story Road*



*Proposed Story Station*

October 2018

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# **Eastridge to BART Regional Connector: Capitol Expressway Light Rail Project**

## **Draft Second Supplemental Environmental Impact Report Volume II of III: Technical Appendices**

**State Clearinghouse #2001092014**

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**October 2018**

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The Draft Second Supplemental EIR is divided into the following three volumes:

- **Volume I:** Draft SEIR-2 as well as Attachment A (Notice of Preparation and Public Scoping with Comments Received), Attachment B (Detailed Description of the Proposed Changes), and Attachment C (Detailed Plans for the Proposed Changes)
- **Volume II:** Draft SEIR-2 technical materials including Attachment D (Supplemental Transportation Analysis), Attachment E (Noise and Vibration Assessment), and Attachment F (Air Quality Modeling Assumptions)
- **Volume III:** Attachment G (Second Subsequent IS and all attachments)

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# Attachment D

## Supplemental Transportation Analysis



HEXAGON TRANSPORTATION CONSULTANTS, INC.

# Eastridge to BART Regional Connector: Capitol Expressway Light Rail Project

## Supplemental Transportation Analysis

Prepared for:

**BKF Engineers**

August 23, 2018



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## Executive Summary

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This report presents the results of a supplemental transportation analysis for proposed changes to the Eastridge to BART Regional Connector Project. The project would extend light rail transit (LRT) from the existing Alum Rock Light Rail Station to the Eastridge Transit Center. In the approved project design, aerial structures are planned at Capitol Avenue, Story Road, and Tully Road. The Santa Clara Valley Transportation Authority (VTA) is evaluating a potential change to the vertical profile in which the LRT would run on aerial structures for the entire length of the extension between the Alum Rock and Eastridge Stations. The proposed change to the project would replace the at-grade track alignment with 1.25 miles of aerial guideway from south of Story Road to north of Tully Road.

This study was conducted for the purpose of supporting the *Capitol Expressway Light Rail Transportation Study for the Environmental Impact Statement* published in September 2012, which identified the potential transportation impacts of the project assuming a hybrid aerial/at-grade profile. The potential impacts of a revised project with a full aerial profile were evaluated in accordance with the standards set forth by the Santa Clara Valley Transportation Authority Congestion Management Program and the California Environmental Quality Act. This study includes an analysis of AM and PM peak hour traffic conditions at four signalized intersections, which would have geometric changes with the proposed project relative to the approved project. In addition, the study includes an analysis of queuing, intersection volumes, travel times, average speeds, and LRT crossings by school buses, school children, and bikes. An analysis of parking supply and demand, transit ridership, vehicle miles traveled (VMT), mode split, safety and security, and construction impacts are also provided. The study identified the following significant impacts:

**Significant Impact #1:** The project would cause a significant impact at the intersection of Capitol Expressway and Story Road under existing, year 2023, and year 2043 conditions. This impact is caused by the removal of the HOV lanes and the addition of HOV lane traffic into the remaining mixed flow lanes.

**Mitigation Measure #1:** To mitigate this impact, the project would need to restore the HOV lanes on Capitol Expressway in the northbound and southbound directions. However, there is currently insufficient right-of-way for this improvement because the HOV lanes would be removed to provide space for the light rail tracks. Replacement of the HOV lanes would require removal of existing buildings and sidewalks along Capitol Expressway, which is infeasible. Therefore, this impact is considered *significant and unavoidable*.

**Significant Impact #2:** The project would cause a significant impact at the intersection of Capitol Expressway and Ocala Avenue under existing, year 2023, and year 2043 conditions. This impact is caused by the removal of the HOV lanes, the removal of a northbound left turn lane on Capitol Expressway, and the addition of HOV lane traffic into the remaining mixed flow lanes.



**Mitigation Measure #2:** To mitigate this impact, the project would need to restore the HOV lanes on Capitol Expressway in the northbound and southbound directions or restore the northbound left turn lane. However, there is currently insufficient right-of-way for these improvements because the HOV lanes and left turn pocket would be removed to provide space for the light rail tracks. Replacement of the HOV lanes or left turn pocket would require removal of existing buildings and sidewalks along Capitol Expressway, which is infeasible. Therefore, this impact is considered *significant and unavoidable*.

**Significant Impact #3:** The project's lane reductions on Capitol Expressway during construction may cause study intersections to temporarily operate at LOS F, impacting passenger vehicles, buses, and trucks. The project may also result in the temporary closures of bikeways, bus stops, and sidewalks in the corridor during construction. Because the duration, times, and locations of temporary closures during construction cannot be predicted with certainty, it is acknowledged that they could constitute a significant impact.

**Mitigation Measure #3:** During construction, VTA will prepare traffic handling plans, employ traffic flaggers, and endeavor to minimize peak hour delays to all users. However, such measures cannot guarantee that construction activities would not cause temporary significant impacts to passenger vehicles, buses, trucks, bikes, and pedestrians. Therefore, this impact is considered *significant and unavoidable*.

The analysis also noted the following conclusions:

- The project's proposed aerial alignment would result in fewer conflicts between light rail vehicles and school buses, bikes and pedestrians.
- The project's removal of the existing HOV lanes would result in higher average auto delays and longer auto travel times on Capitol Expressway.
- The LRT extension is likely to reduce VMT because it creates an enhanced transit service that connects to the regional BART system, which should shift some automobile trips to transit. In addition, reducing roadway capacity by removal of travel lanes on Capitol Expressway will generally reduce VMT, and therefore is presumed to cause a less-than-significant impact on transportation.

# 1. Introduction

---

This report presents the results of a supplemental transportation analysis for proposed changes to the Eastridge to BART Regional Connector Project. The project would extend light rail transit (LRT) from the existing Alum Rock Light Rail Station to the Eastridge Transit Center. In the approved project design, aerial structures are planned at Capitol Avenue, Story Road, and Tully Road. The Santa Clara Valley Transportation Authority (VTA) is evaluating a potential change to the vertical profile in which the LRT would run on aerial structures for the entire length of the extension between the Alum Rock and Eastridge Stations. The proposed change to the project would replace the at-grade track alignment with 1.25 miles of aerial guideway from south of Story Road to north of Tully Road. Compared to the approved project, the proposed change would also:

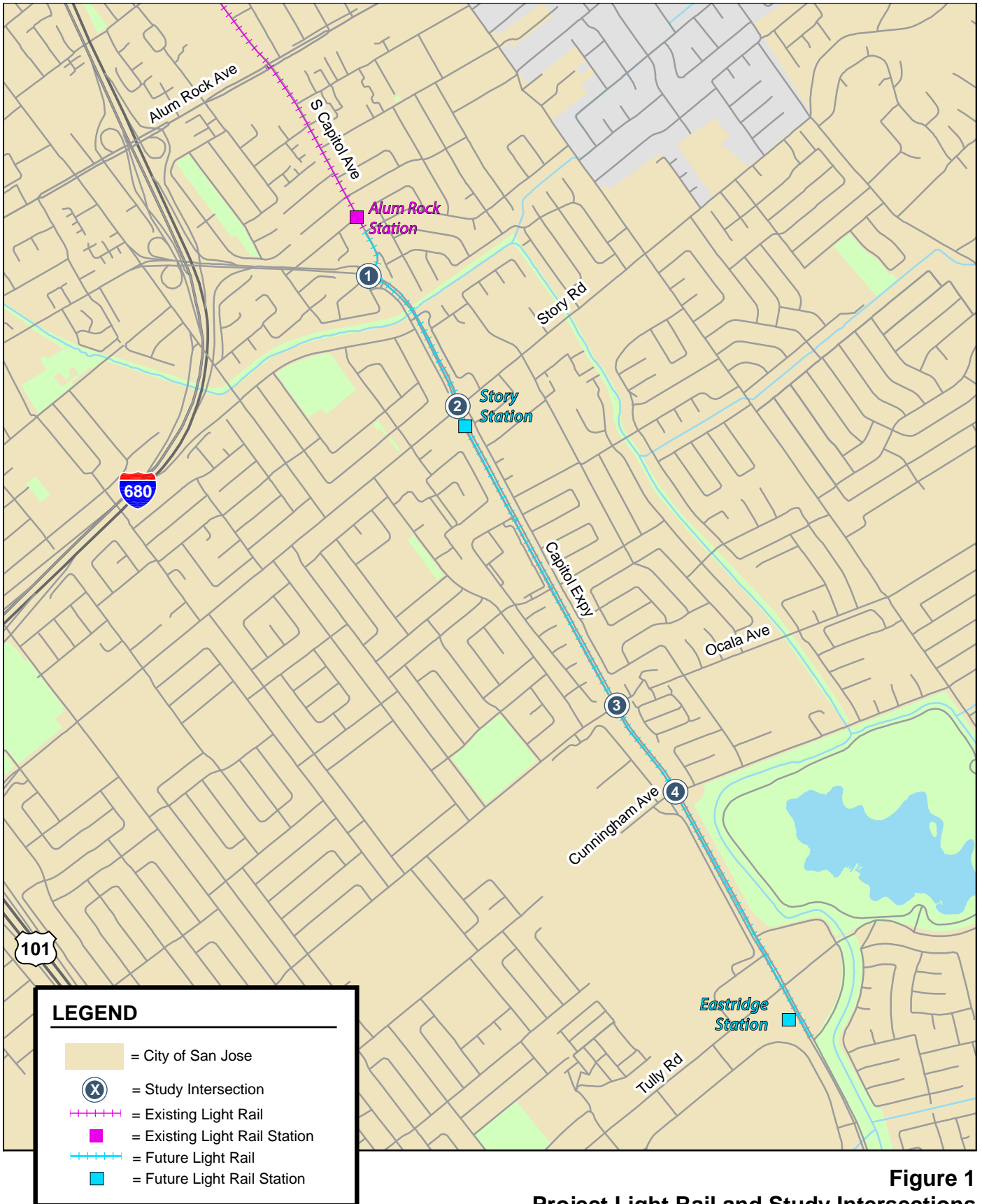
- 1) Maintain four travel lanes in each direction of Capitol Expressway between Capitol Avenue and Story Road and convert the existing High Occupancy Vehicle (HOV) lanes to mixed flow lanes.
- 2) Retain two northbound left turn lanes from Capitol Expressway to Story Road.
- 3) Modify the parking configuration at the Eastridge Park-and-Ride lot.
- 4) Extend the left turn pockets southbound on Capitol Expressway at Story Road
- 5) Add right turn lanes at Story Road, Cunningham Avenue, and Tully Road.

The project area and the proposed LRT extension are shown on Figure 1.

## Scope of Study

This study was conducted for the purpose of supporting the *Capitol Expressway Light Rail Transportation Study for the Environmental Impact Statement (EIS)* published in September 2012, which identified the potential transportation impacts of the project assuming a hybrid aerial/at-grade profile. The potential impacts of a revised project with a full aerial profile were evaluated in accordance with the standards set forth by the Santa Clara Valley Transportation Authority Congestion Management Program (CMP) and the California Environmental Quality Act (CEQA).

This traffic study includes an analysis of AM and PM peak hour traffic conditions for the following four signalized intersections, which would have geometric changes with the proposed project relative to the approved project:



**Figure 1**  
Project Light Rail and Study Intersections

1. Capitol Expressway and Capitol Avenue\*
2. Capitol Expressway and Story Road\*
3. Capitol Expressway and Ocala Avenue
4. Capitol Expressway and Cunningham Avenue

\*designates CMP intersection

The proposed changes to the approved project would not affect traffic volumes nor levels of service at any other intersections along the corridor. The project would not change the lane configurations at the intersections of Capitol Expressway/Tully Road or Capitol Expressway/Quimby Road. Thus, analysis of these locations is unnecessary.

The study also includes an analysis of queuing, intersection volumes, travel times, average speeds, and LRT crossings by school buses, school children, and bikes. An analysis of parking supply and demand, transit ridership, vehicle miles traveled (VMT), mode split, safety and security, and construction impacts are also provided.

Traffic conditions at the study intersections were analyzed for both the weekday AM and PM peak hours. The AM peak hour occurs between 7:00 AM and 9:00 AM and the PM peak hour occurs between 4:00 PM and 6:00 PM on a regular weekday. These are the peak commute hours during which most traffic congestion occurs on the roadways. Traffic conditions were evaluated for the following scenarios: Existing Conditions, Existing plus Project Conditions, Year 2023 Baseline (no project) Conditions, Year 2023 with Project Conditions, Year 2043 Baseline (no project) Conditions and Year 2043 with Project Conditions. For all study scenarios, level of service, average speed, and travel time analyses were performed.

## Methodology

This section describes the methods used to determine traffic operations. It includes the methods used for data collection, level of service calculations, and describes the various level of service standards as well as the criteria for project impacts.

## Data Requirements

The data required for the analysis were obtained from new traffic counts, previous traffic studies, VTA, and field observations. The following data were collected from these sources:

- Existing peak hour intersection turn movement counts
- Intersection lane configurations
- Signal timing and phasing
- Year 2023 and year 2043 traffic volumes
- HOV counts on Capitol Expressway
- Bike, pedestrian, and transit counts along Capitol Expressway
- Existing travel times and average travel speeds on Capitol Expressway
- Vehicle queuing data at Capitol Expressway and Ocala Avenue

## Level of Service Standards and Analysis Methods

Traffic conditions at the study intersections were evaluated using level of service (LOS). *Level of Service* is a qualitative description of operating conditions ranging from LOS A, or free-flow conditions with little or no delay, to LOS F, or jammed conditions with excessive delays.

Traffic conditions at the study intersections were evaluated using the TRAFFIX software, which employs the 2000 Highway Capacity Manual (HCM) methodology for intersection analysis. The 2000 HCM methodology is the designated LOS methodology for Santa Clara County. The correlation between delay and level of service for signalized intersections is shown on Table 1.

**Table 1**  
**Signalized Intersection Level of Service Definitions Based on Control Delay**

Level of Service	Description	Average Control Delay Per Vehicle (Sec.)
<b>A</b>	Operations with very low delay occurring with favorable progression and/or short cycle lengths.	Up to 10.0
<b>B</b>	Operations with low delay occurring with good progression and/or short cycle lengths.	10.1 to 20.0
<b>C</b>	Operation with average delays resulting from fair progression and/or longer cycle lengths. Individual cycle failures begin to appear.	20.1 to 35.0
<b>D</b>	Operations with longer delays due to a combination of unfavorable progression, long cycle lengths or high V/C ratios. Many vehicles stop and individual cycle failures are noticeable.	35.1 to 55.0
<b>E</b>	Operations with high delay values indicating poor progression, long cycle lengths, and high V/C ratios. Individual cycle failures are frequent occurrences. This is considered to be the limit of acceptable delay.	55.1 to 80.0
<b>F</b>	Operations with delays unacceptable to most drivers occurring due to over saturation, poor progression, or very long cycle lengths.	Greater than 80.0

Source: Transportation Research Board, *2000 Highway Capacity Manual*, (Washington, D.C., 2000)

### Travel Time and Average Speed

The changes in corridor travel times as a result of the proposed project were calculated by comparing the delay differences in the TRAFFIX calculations for intersection through movements between the corresponding no-project and with project scenarios. Travel speeds were calculated from a regression equation that correlates corridor travel time to average vehicle speed. The equation was developed based on the existing travel time runs in the Capitol Expressway corridor.

### Vehicle Queuing

A vehicle queuing analysis was performed for left-turning movements at the intersection of Capitol Expressway and Ocala Avenue. Vehicle queues were measured in the field, and the average queue length and 95<sup>th</sup> percentile queue length were calculated. The 95<sup>th</sup> percentile queue length is defined as the queue length that would be exceeded during one out of twenty traffic signal cycles during the peak period. For this analysis, the number of vehicles in the queue is translated into a queue length, assuming 25 feet per vehicle, and the vehicle queue length is compared to the available storage capacity for the movement.

## Impact Criteria

At the study intersections, the minimum acceptable level of service was defined as LOS E, and project impacts at signalized intersections occur when:

1. The level of service at an intersection drops below its LOS standard when project traffic is added; or
2. An intersection that is operating worse than its LOS standard under no project conditions has an increase in critical delay of four or more seconds AND the demand-to-capacity ratio (V/C) is increased by more than 0.01 when project traffic is added.

The exception to this criteria is when the addition of project traffic reduces the amount of average stopped delay for critical movements (i.e. the change in average stopped delay for critical movements is negative). In this case, the criteria is when the project increases the critical V/C value by 0.01 or more.

## Report Organization

The remainder of this report is divided into four chapters. Chapter 2 describes existing conditions in the study area. Chapter 3 describes the near term and long term roadway conditions on Capitol Expressway, including level of service, average speed, and travel time with and without the proposed project. Chapter 4 presents the project's impacts on other transportation issues including vehicle-miles traveled (VMT), parking, impacts during construction, safety and security, and projected transit usage. Chapter 5 presents the study conclusions.

## 2. Existing Conditions

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This chapter describes existing conditions for selected metrics (traffic counts, parking counts, pedestrian counts, queuing assessment, etc.) as requested by VTA for various transportation facilities in the vicinity of the project corridor. It is organized into three main categories: existing roadway operations; bus, bike and pedestrian operations; and Eastridge Transit Station parking.

### Existing Roadway Operations

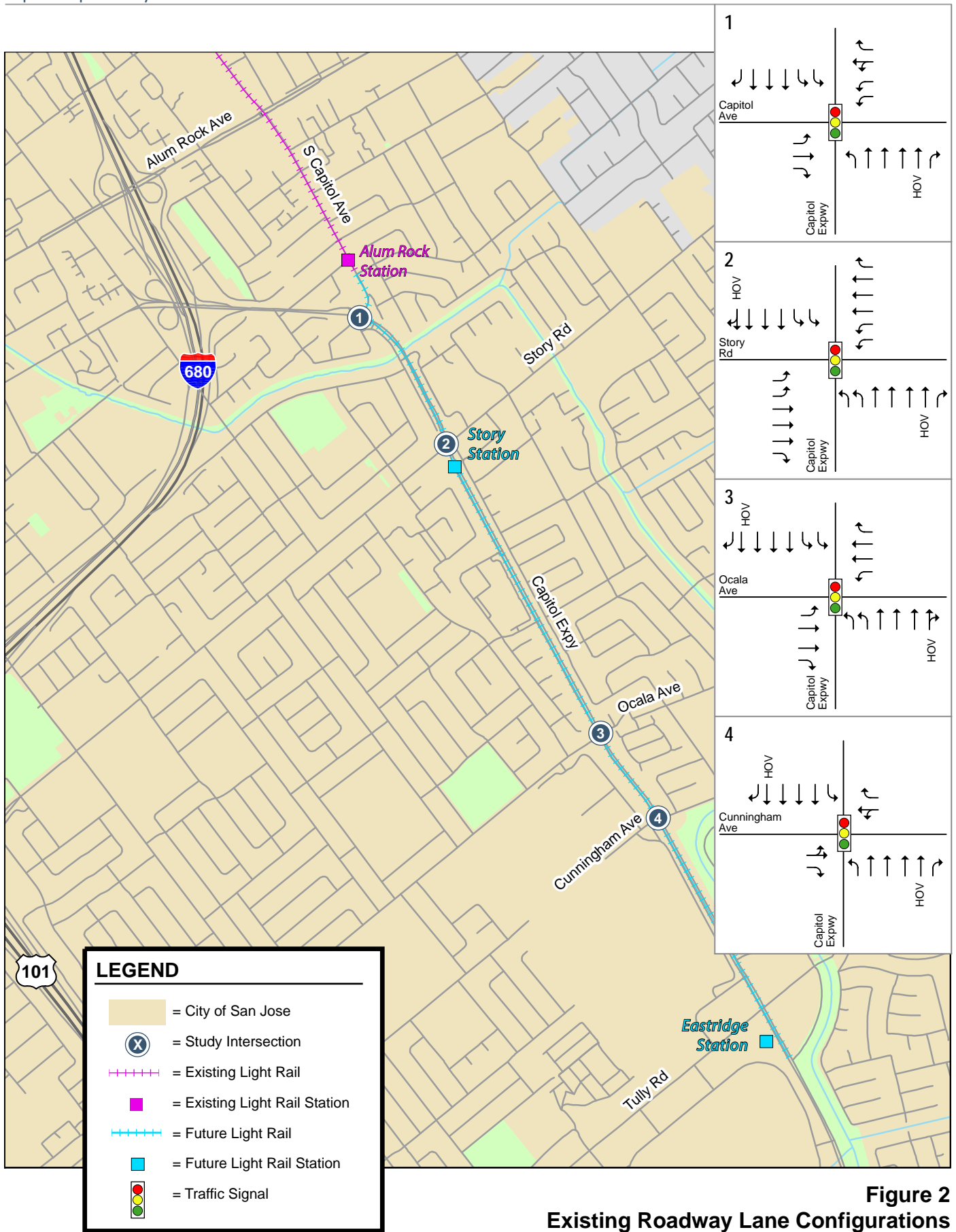
This section describes the existing roadway operations and includes descriptions of the following: intersection volumes, HOV utilization, left turn queuing, intersection level of service, corridor travel time, and corridor average speed.

#### Existing Roadway Traffic Volume & Geometries

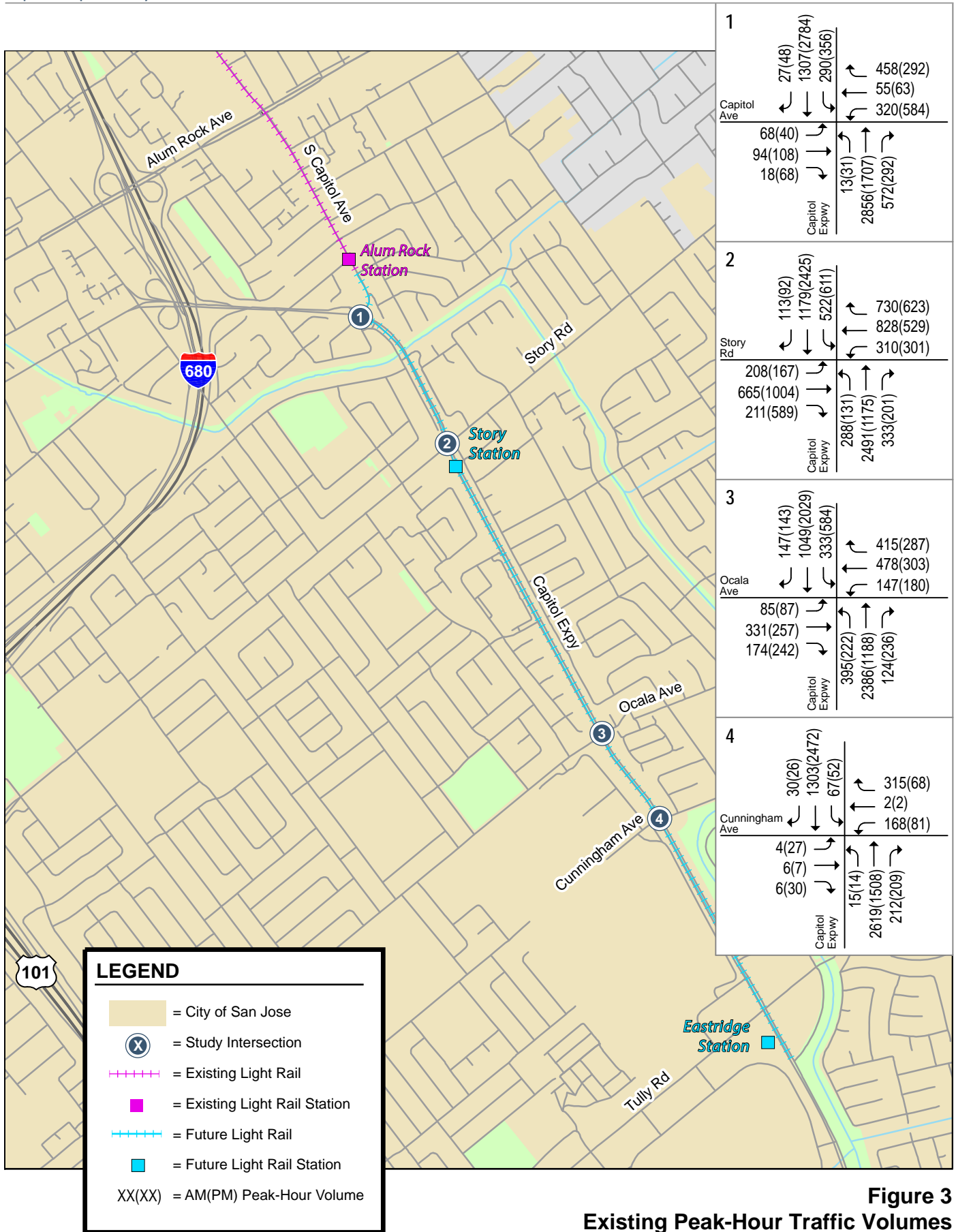
Existing traffic volumes were obtained from peak hour counts collected on November 1<sup>st</sup>, 2017 and from the latest CMP monitoring report. The existing roadway geometries at the four study intersections are shown on Figure 2 and the peak-hour intersection volumes are shown on Figure 3. Intersection turning-movement counts conducted for this analysis are presented in Appendix A.

Tables 2 and 3 compare the 2017 traffic counts to those previously collected at the study intersections. Peak hour traffic counts at a study intersection may fluctuate up to ten percent due to both random variation and changes in upstream/downstream conditions. The AM peak hour comparison (Table 2) shows that the 2017 traffic volumes are more than ten percent higher than the 2009 traffic volumes at Capitol Expressway's intersections with Story Road, Ocala Avenue, and Cunningham Avenue. The PM peak hour comparison (Table 3) shows that, historically, the changes in traffic volumes have generally been within ten percent. Year 2016 PM peak hour traffic counts were used at Capitol Expressway's intersections with Capitol Avenue and Story Road because of minor construction near these locations during the 2017 counts.

Table 4 shows the existing traffic volumes on Capitol Expressway in both the mixed flow lanes and the existing HOV lanes. The HOV raw data sheets are provided in Appendix A. Generally, HOV volumes comprise between 9 percent and 25 percent of the total traffic volume northbound and southbound on Capitol Expressway.







**Figure 3**  
Existing Peak-Hour Traffic Volumes

**Table 2  
AM Peak Hour Historical Count Comparison**

Intersection	Count Year <sup>1</sup>	Peak Hour	Individual Movement Volume <sup>2</sup>												Total Intersection Volume		
			NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR			
<b>Capitol Expwy &amp; Capitol Ave</b>																	
	2009	AM	13	3,641	140	189	1,248	23	56	64	30	332	47	294	6,077		
	2017	AM	13	2,856	572	290	1,307	27	68	94	18	320	55	458	6,078		
			<i>Difference</i> <sup>3</sup>		0	-785	432	101	59	4	12	30	-12	8	164	1	
			<i>% Difference</i> <sup>4</sup>		0.0%	-21.6%	308.6%	53.4%	4.7%	17.4%	21.4%	46.9%	-40.0%	-3.6%	17.0%	55.8%	0%
<b>Capitol Expwy &amp; Story Rd</b>																	
	2009	AM	240	2,390	162	433	906	136	194	494	45	165	743	862	6,770		
	2017	AM	288	2,491	333	522	1,179	113	208	665	211	310	828	730	7,878		
			<i>Difference</i> <sup>3</sup>		48	101	171	89	273	-23	14	171	166	145	85	-132	1108
			<i>% Difference</i> <sup>4</sup>		20.0%	4.2%	105.6%	20.6%	30.1%	-16.9%	7.2%	34.6%	368.9%	87.9%	11.4%	-15.3%	16%
<b>Capitol Expwy &amp; Ocala Avenue</b>																	
	2009	AM	242	2,347	150	313	669	215	123	258	234	162	412	339	5,464		
	2017	AM	395	2,386	124	333	1,049	147	85	331	174	147	478	415	6,064		
			<i>Difference</i> <sup>3</sup>		153	39	-26	20	380	-68	-38	73	-60	-15	66	76	600
			<i>% Difference</i> <sup>4</sup>		63.2%	1.7%	-17.3%	6.4%	56.8%	-31.6%	-30.9%	28.3%	-25.6%	-9.3%	16.0%	22.4%	11%
<b>Capitol Expwy &amp; Cunningham Avenue</b>																	
	2009	AM	11	2,457	107	23	993	5	6	2	6	105	7	261	3,983		
	2017	AM	15	2,619	212	67	1,303	30	4	6	6	168	2	315	4,747		
			<i>Difference</i> <sup>3</sup>		4	162	105	44	310	25	-2	4	0	63	-5	54	764
			<i>% Difference</i> <sup>4</sup>		36.4%	6.6%	98.1%	191.3%	31.2%	500.0%	-33.3%	200.0%	0.0%	60.0%	-71.4%	20.7%	19%

**Notes:**

<sup>1</sup> The 2017 count data was based on the traffic count conducted on November 1st, 2017. The 2009 traffic volumes were obtained from Appendix A of the Capitol Expressway Light Rail Transportation Study for the Environmental Impact Statement (EIS), published in September 2012. All counts were collected during the AM peak hour, between 7:00 AM and 9:00 AM.

<sup>2</sup> Individual movement volumes are the total number of vehicles during the AM peak hour for all lanes of that movement.

<sup>3</sup> The difference is calculated by subtracting the 2009 volume from the 2017 volume. Thus, a positive value indicates that the 2017 volume is greater than the 2009 volume and a negative value indicates that the 2017 volume is less than the 2009 volume.

<sup>4</sup> The % difference is calculated relative to the 2009 counts. Thus, a positive percent indicates an increase in traffic and a negative percent indicates a decrease in traffic.

NBL = northbound left, NBT = northbound through, NBR = northbound right, SBL = southbound left, SBT = southbound through, SBR = southbound right  
EBL = eastbound left, EBT = eastbound through, EBR = eastbound right, WBL = westbound left, WBT = westbound through, WBR = westbound right

**Table 3  
PM Peak Hour Historical Count Comparison**

Intersection	Count Year <sup>1</sup>	Peak Hour	Individual Movement Volume <sup>2</sup>											Total Intersection Volume		
			NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT		WBR	
<b>Capitol Expwy &amp; Capitol Ave</b>																
	2009	PM	25	1,625	273	429	2,808	24	33	95	70	469	42	207	6,100	
	2012	PM	31	1,685	325	270	3,003	9	64	111	92	572	76	157	6,395	
	2014	PM	23	1,862	371	418	2,748	36	47	92	46	494	51	259	6,447	
	2016	PM	31	1,707	292	356	2,784	48	40	108	68	584	63	292	6,373	
		2016-2009	<i>Difference</i> <sup>3</sup>	6	82	19	-73	-24	24	7	13	-2	115	21	85	273
		2016-2009	<i>% Difference</i> <sup>4</sup>	24.0%	5.0%	7.0%	-17.0%	-0.9%	100.0%	21.2%	13.7%	-2.9%	24.5%	50.0%	41.1%	4%
<b>Capitol Expwy &amp; Story Rd</b>																
	2009	PM	146	1,189	133	832	2,352	159	150	666	395	204	523	584	7,333	
	2012	PM	119	1,135	185	783	2,804	97	159	862	540	222	509	610	8,025	
	2014	PM	150	1,084	176	655	2,471	116	168	885	493	183	508	635	7,524	
	2016	PM	131	1,175	201	611	2,425	92	167	1,004	589	301	529	623	7,848	
		2016-2009	<i>Difference</i> <sup>3</sup>	-15	-14	68	-221	73	-67	17	338	194	97	6	39	515
		2016-2009	<i>% Difference</i> <sup>4</sup>	-10.3%	-1.2%	51.1%	-26.6%	3.1%	-42.1%	11.3%	50.8%	49.1%	47.5%	1.1%	6.7%	7%
<b>Capitol Expwy &amp; Ocala Avenue</b>																
	2009	PM	191	954	181	579	1,977	125	102	355	393	230	293	282	5,662	
	2017	PM	222	1,188	236	584	2,029	143	87	257	242	180	303	287	5,758	
		2017-2009	<i>Difference</i> <sup>3</sup>	31	234	55	5	52	18	-15	-98	-151	-50	10	5	96
		2017-2009	<i>% Difference</i> <sup>4</sup>	16.2%	24.5%	30.4%	0.9%	2.6%	14.4%	-14.7%	-27.6%	-38.4%	-21.7%	3.4%	1.8%	2%
<b>Capitol Expwy &amp; Cunningham Avenue</b>																
	2009	PM	33	1,197	145	50	2,392	102	35	10	29	82	11	61	4,147	
	2017	PM	14	1,508	209	52	2,472	26	27	7	30	81	2	68	4,496	
		2017-2009	<i>Difference</i> <sup>3</sup>	-19	311	64	2	80	-76	-8	-3	1	-1	-9	7	349
		2017-2009	<i>% Difference</i> <sup>4</sup>	-57.6%	26.0%	44.1%	4.0%	3.3%	-74.5%	-22.9%	-30.0%	3.4%	-1.2%	-81.8%	11.5%	8%

**Notes:**

<sup>1</sup> The 2012, 2014, and 2016 count data was collected by the Santa Clara County Valley Transportation Authority (VTA) as part of the Congestion Management Program (CMP). The 2017 count data was based on the traffic count conducted on November 1st, 2017. The 2009 traffic volumes were obtained from Appendix A of the Capitol Expressway Light Rail Transportation Study for the Environmental Impact Statement (EIS), published in September 2012. All counts were collected during the PM peak hour, between 4:00 PM and 6:00 PM.

<sup>2</sup> Individual movement volumes are the total number of vehicles during the PM peak hour for all lanes of that movement.

<sup>3</sup> The difference is calculated by subtracting the 2009 volume from the existing volume. Thus, a positive value indicates that the existing volume is greater than the 2009 volume and a negative value indicates that the existing volume is less than the 2009 volume.

<sup>4</sup> The % difference is calculated relative to the 2009 counts. Thus, a positive percent indicates an increase in traffic and a negative percent indicates a decrease in traffic.

NBL = northbound left, NBT = northbound through, NBR = northbound right, SBL = southbound left, SBT = southbound through, SBR = southbound right  
EBL = eastbound left, EBT = eastbound through, EBR = eastbound right, WBL = westbound left, WBT = westbound through, WBR = westbound right

**Table 4  
Capitol Expressway HOV Lane Utilization**

Roadway Segment	Peak Hour	Northbound				Southbound			
		Mixed				Mixed			
		Total (VPH)	Flow (VPH)	HOV (VPH)	% HOV	Total (VPH)	Flow (VPH)	HOV (VPH)	% HOV
Capitol Exp, Capitol Ave to Story Rd	AM	2,856	2,427	429	15%	1,179	932	247	21%
	PM	1,772	1,564	208	12%	1,893	1,619	274	14%
Capitol Exp, Story Rd to Ocala Ave	AM	2,491	1,879	612	25%	1,049	953	96	9%
	PM	1,275	956	319	25%	2,029	1,783	246	12%
Capitol Exp, Ocala Ave to Cunningham Ave	AM	2,386	1,891	495	21%	1,303	1,153	150	12%
	PM	1,188	985	203	17%	2,472	2,084	388	16%
Capitol Exp, Cunningham Ave to Tully Rd	AM	2,619	2,084	535	20%	980	825	155	16%
	PM	1,508	1,205	303	20%	1,795	1,522	273	15%

Traffic Counts on conducted on 11/1/17 by Quality Counts

**Table 5**  
**Left Turn Queuing Data at the Intersection of Capitol Expressway and Ocala Avenue**

Movement	Effective Pocket Length (ft)	Observed Queues <sup>1</sup>					
		AM Peak Period (7-9)		School Peak Period (2-4)		PM Commute Period (4-6)	
		Avg. (ft)	95th % (ft) <sup>2</sup>	Avg. (ft)	95th % (ft) <sup>2</sup>	Avg. (ft)	95th % (ft) <sup>2</sup>
Southbound Left Turn <sup>3</sup>	850	350	625	250	450	225	375
Westbound Left Turn	150	<b>175</b>	<b>225</b>	150	<b>250</b>	<b>200</b>	<b>250</b>
Northbound Left Turn <sup>3</sup>	700	250	475	225	425	250	375
Eastbound Left Turn	225	100	200	100	175	100	175

Note: Counts conducted by Quality Counts on 11/1/17  
**BOLD** indicates where left turn pocket storage was exceeded  
<sup>1</sup> Observed queues converted to feet assuming 25 feet per vehicle  
<sup>2</sup> Represents the 95th Percentile queue  
<sup>3</sup> Dual left turn, but queue length is sum of the queues for both lanes

## Existing Queuing Observations

Table 5 provides a summary of left turn queuing at the intersection of Capitol Expressway and Ocala Road. The raw data sheets are provided in Appendix A. Currently, the westbound left turn queues from Ocala Avenue to southbound Capitol Expressway are not accommodated in the storage provided during the AM (7-9), school PM (2-4), or commute PM (4-6) peak hours. For all other left turn movements at the subject intersection, the 95<sup>th</sup> percentile queues are being accommodated during the AM, school PM, and commute PM peak periods.

## Existing Intersection Levels of Service

The results of the intersection level of service analysis under existing conditions are summarized in Table 6. The results show that the intersection of Capitol Expressway and Story Road operates at LOS F. All other study intersections currently operate at acceptable levels of service (LOS E or better). The intersection levels of service calculation sheets are included in Appendix A.

**Table 6**  
**Existing Intersection Level of Service**

Intersection	Peak Hour	Avg. Delay (sec/veh)	LOS
Capitol Expressway & Capitol Avenue*	AM	41.4	D
	PM	47.6	D
Capitol Expressway & Story Road*	AM	<b>82.5</b>	<b>F</b>
	PM	<b>111.2</b>	<b>F</b>
Capitol Expressway & Ocala Avenue	AM	62.2	E
	PM	74.0	E
Capitol Expressway & Cunningham Avenue	AM	22.6	C
	PM	12.6	B

**Notes**  
\* Denotes CMP intersection  
**Bold** indicates a substandard level of service

## Existing Travel Time and Average Speed

Travel times and average speeds were measured on Capitol Expressway between I-680 and Tully Road on October 25 and October 26 of 2017. The sixteen runs were conducted during each of the AM and PM peak hours, in each of the northbound and southbound directions, and in the HOV and mixed flow lanes. The results are summarized in Table 7. The raw data sheets are included in Appendix B. The results of the analysis show that, on average, it currently takes between 4.5 minutes and 10 minutes to travel between I-680 and Tully Road during commute hours, depending on the direction, peak hour, and whether an HOV lane was utilized. Average travel speeds ranged between 23 miles per hour (mph) and 34 mph. In most runs, traffic in the HOV lanes experienced a slightly higher average travel speed and a slightly lower average travel time.

**Table 7**  
**Travel Time and Average Speed on Capitol Expressway, Tully to I-680**

Vehicle Type	Direction	Peak Hour	Travel Time (min:sec)		Speed (MPH)	
			Avg.	Range	Avg.	Range
Mixed Flow	NB	AM	9:48	3:30 - 17:28	23	10 - 39
HOV	NB	AM	9:04	3:43 - 16:59	24	13 - 38
Mixed Flow	NB	PM	6:02	4:31 - 7:44	29	20 - 35
HOV	NB	PM	6:40	5:31 - 8:08	27	21 - 30
Mixed Flow	SB	AM	5:08	3:25 - 7:04	31	16 - 43
HOV	SB	AM	4:29	3:08 - 5:51	34	26 - 44
Mixed Flow	SB	PM	5:53	4:01 - 7:24	30	20 - 38
HOV	SB	PM	5:41	4:15 - 7:06	30	23 - 36

Note: Travel Time data from 10/25/17 and 10/26/17, approximately 16 runs per peak hour

## Bus, Bicycle and Pedestrian Counts at Ocala

Much of the pedestrian and bike traffic in the project vicinity occurs around Ocala Avenue due to the presence of several schools in the area, including Ocala Middle School, which is located approximately 1,000 feet east of Capitol Expressway on Ocala Avenue. Of particular concern are bike/pedestrian crossings of Capitol Expressway by school age pedestrians. After school (2 PM to 4 PM) bike and pedestrian trips were counted at the intersection of Capitol Expressway and Ocala Avenue on November 1, 2017. The counts distinguished between adults and school age crossings. The results are summarized in Table 8, which showed that most of the bike/pedestrian crossings (1) were children, and (2) occurred across Capitol Expressway (as opposed to Ocala Avenue).

**Table 8**  
**Bike and Pedestrian Trips Capitol Expressway/Ocala Avenue**

Type of Trip	Total Crossings	Movements Across Capitol Expressway
Adult Pedestrians	14	4
School Age Pedestrians	125	119
Adult Bikes	17	8
School Age Bikes	6	4
*Counts conducted by Quality Counts on 11/1/17, between 2:00 PM and 4:00 PM		

School bus trips were counted at the intersection of Capitol Expressway and Ocala Avenue during the AM (7-9), school PM (2-4), and commute PM (4-6), peak hours on November 1, 2017. The counts distinguished between the total number of buses entering the intersection, and those that crossed the centerline of Capitol Expressway (i.e. would have conflicted with an at-grade LRT alignment). The results are summarized in Table 9, which showed a number of school bus trips during the AM and school PM peak hours.

**Table 9**  
**School Bus Trips Capitol Expressway/Ocala Avenue**

Time Period	Total Buses	Movements Across Capitol Expressway
7:00 AM - 9:00 AM	50	18
2:00 PM to 4:00 PM	44	14
4:00 PM to 6:00 PM	2	2
Note: Counts conducted by Quality Counts on 11/1/17		

## Eastridge Park-and-Ride Lot

VTA provides a transit station, with a park-and-ride lot, at Eastridge Mall. This station provides access to VTA bus routes 12, 22, 26, 31, 39, 70, 71, 77, 103, 180, and 522. Historical parking demand at the Eastridge Park-and-Ride lot is shown on Table 10. The table shows that the existing parking demand is being accommodated in the available parking supply. Between February 2013 and December 2014, the Eastridge Park-and-Ride lot began to experience a large increase in utilization. While this large increase could be partially attributed to an increase in bus ridership, it is believed that it is mostly the result of the use of the Eastridge Park-and-Ride by employer shuttles. In addition, VTA Paratransit staff and vehicles were relocated to an existing building adjacent to the Eastridge Park-and-Ride in September 2017. In addition to using 126 parking spaces designated for VTA Paratransit, they also



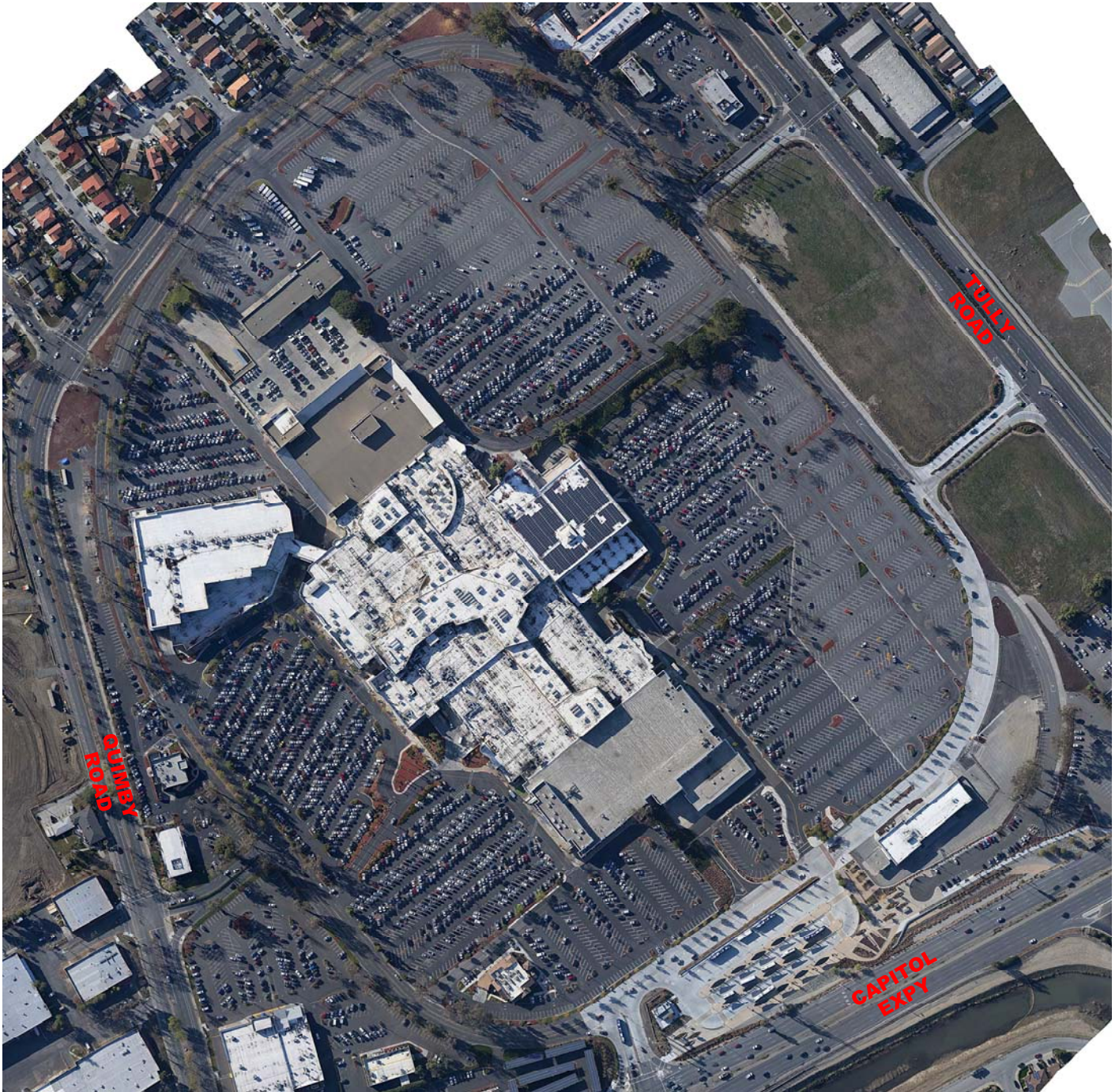
occupy between 35 – 55 parking spaces in the Eastridge Park-and-Ride lot. The existing parking supply at the Eastridge Park-and-Ride is shown in Figure 4. An aerial photo of parking at Eastridge Mall during the holiday season of 2017 is shown on Figure 5. The photo, which was taken on December 26, 2017 at 2:00 PM, shows a large surplus of vacant parking spaces at Eastridge Mall during the holiday season. Many of these vacant parking stalls were located directly north of the existing Eastridge Park-and-Ride lot.

**Table 10  
Historical Eastridge Park-and-Ride Lot Parking Demand**

Year	Month	Parked Vehicles
2011	April	23
2011	January	21
2011	October	33
2012	February	27
2012	October	36
2013	February	32
2014	December	84
2015	April	113
2016	December	65
2016	January	52
2016	May	102
2017	October	148
PARKING SUPPLY*		180
Parking counts provided by VTA Operations on 12/20/17		
*235 spaces provided by VTA, minus 55 spaces used by paratransit		



Figure 4  
Existing Eastridge Transit Center Parking Supply



**Figure 5**  
**Holiday Season Parking at Eastridge Mall**

### 3.

## Roadway Operations Under Project Conditions

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This chapter describes near term traffic conditions with the project, including a description of existing plus project conditions, year 2023 conditions without and with the project, and year 2043 conditions without and with the project.

### Traffic Forecasts and Project Roadway Network Changes

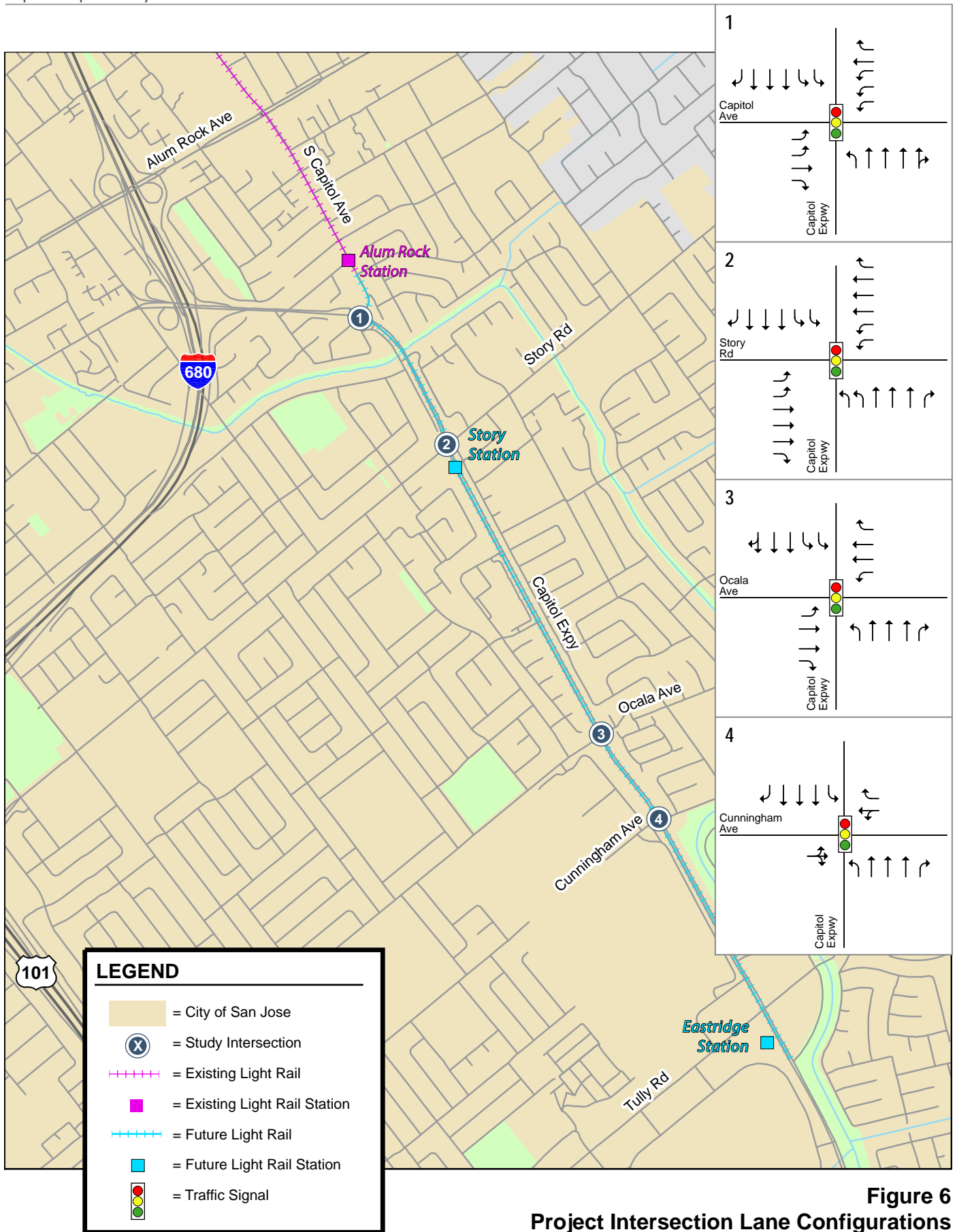
For all study scenarios, the future forecast of traffic volumes at the study locations were provided by VTA using the most recent version of the Countywide model. Future year (2023 and 2043) no project traffic volumes include existing traffic as well as expected traffic growth between 2018 and the forecast year. The roadway network changes as a result of the proposed project are described in Chapter 1 of this report. The proposed lane configurations at each study intersection are shown on Figure 6. The areawide transportation network changes considered in the Countywide model for years 2023 and 2043 are shown in Appendix C.

### Level of Service Analysis

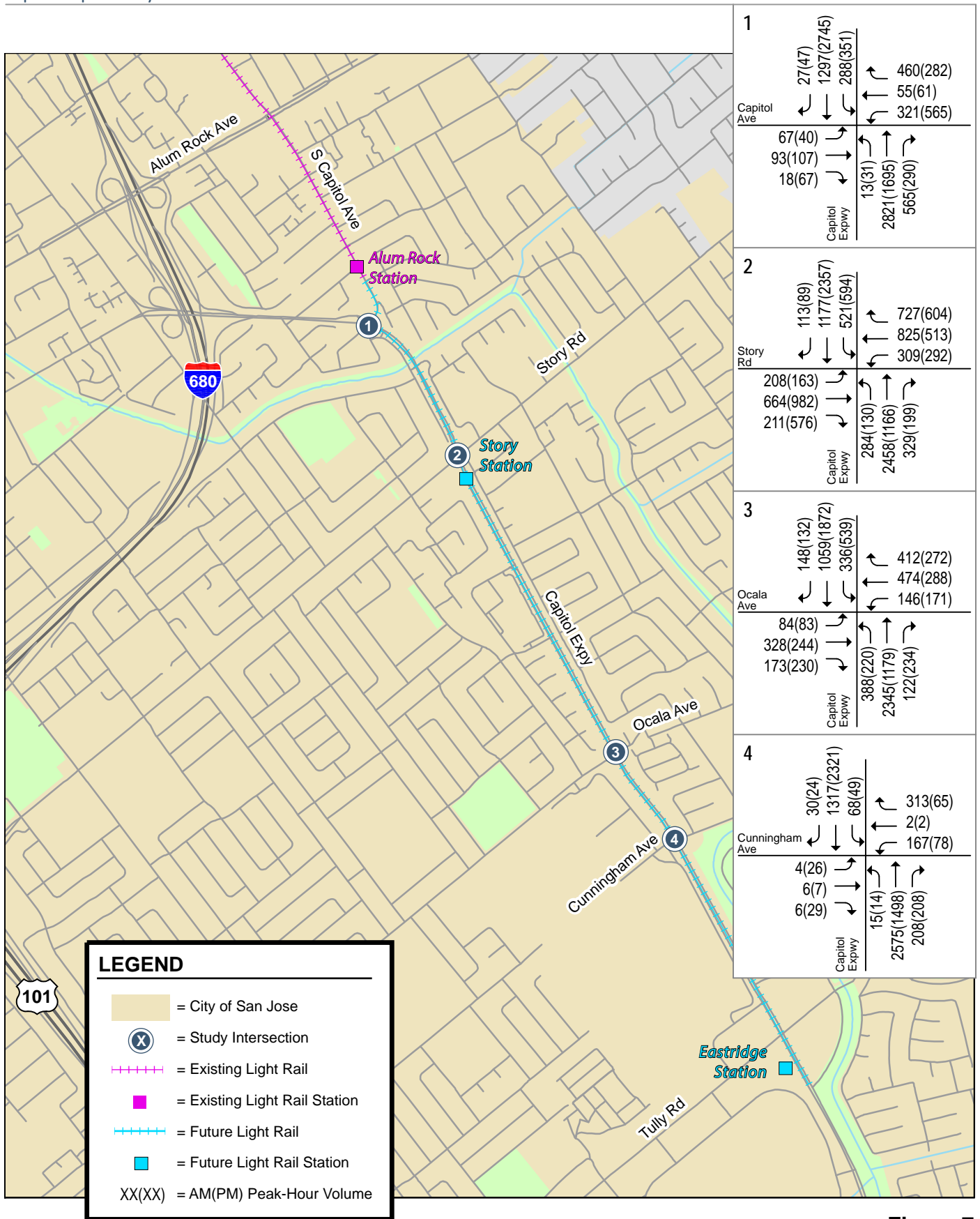
Traffic volumes under existing plus project, year 2023, and year 2043, with and without the project, are shown on Figures 7 through 11. The level of service results at the study intersections are summarized in Tables 11, 12, and 13. The results show that, measured against the previously stated level of service impact criteria, the project would result in the following significant impacts:

**Significant Impact #1:** The project would cause a significant impact at the intersection of Capitol Expressway and Story Road under existing, year 2023, and year 2043 conditions. This impact is caused by the removal of the HOV lanes and the addition of HOV lane traffic into the remaining mixed flow lanes.

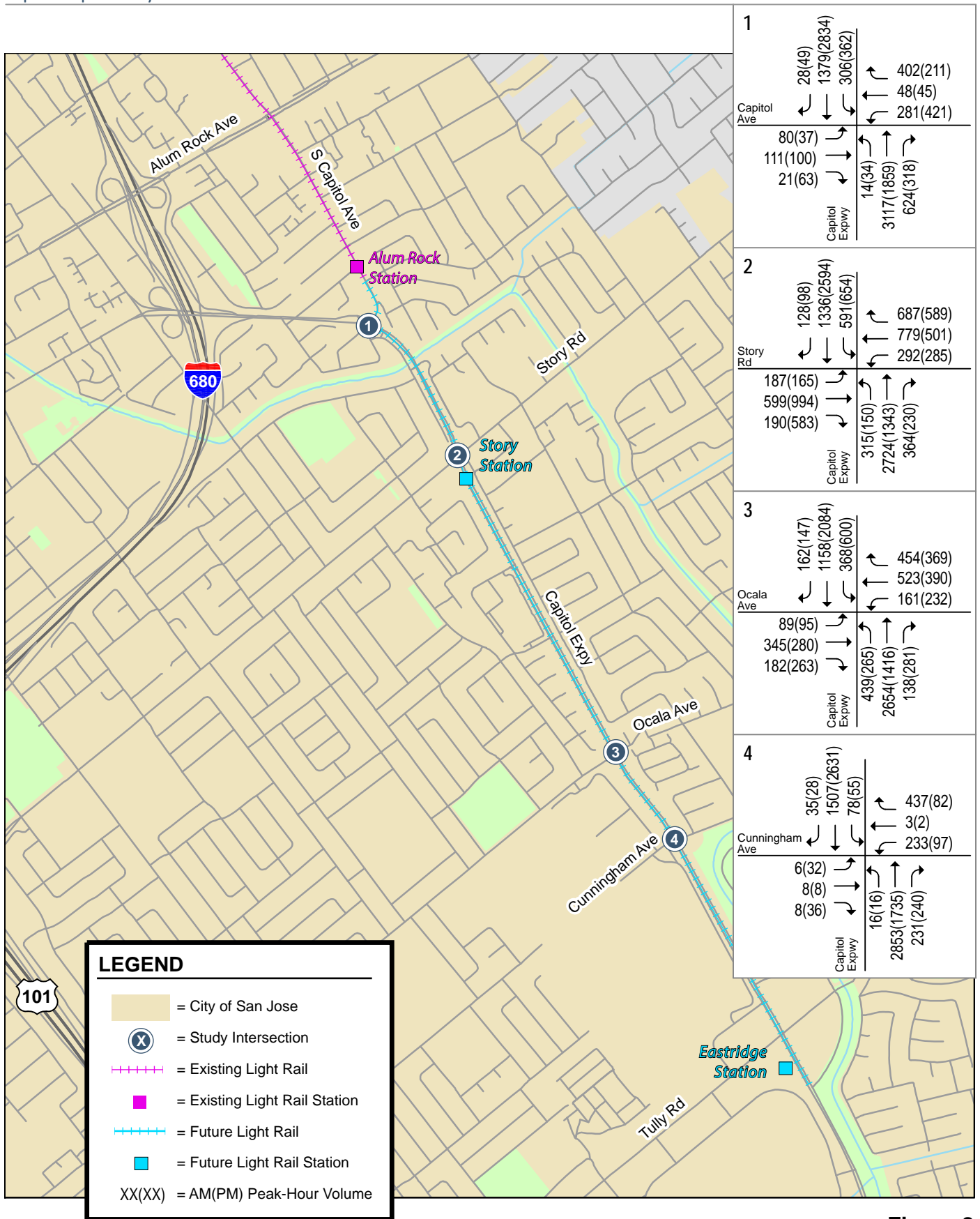
**Mitigation Measure #1:** To mitigate this impact, the project would need to restore the HOV lanes on Capitol Expressway in the northbound and southbound directions. However, there is currently insufficient right-of-way for this improvement because the HOV lanes would be removed to provide space for the light rail tracks. Replacement of the HOV lanes would require removal of existing buildings and sidewalks along Capitol Expressway, which is infeasible. Therefore, this impact is considered *significant and unavoidable*.



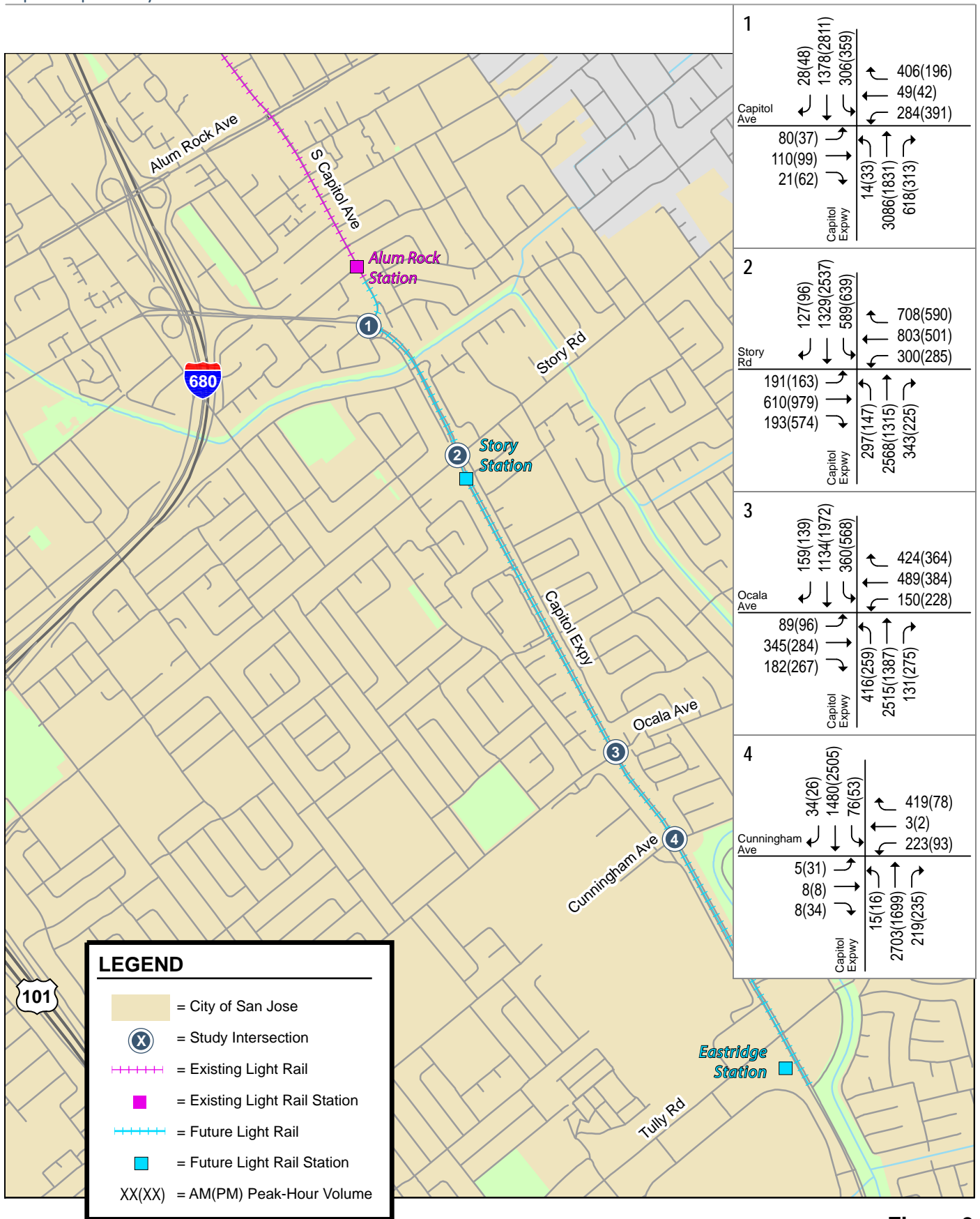
**Figure 6**  
Project Intersection Lane Configurations



**Figure 7**  
Existing Plus Project Peak-Hour Traffic Volumes



**Figure 8**  
Year 2023 No Project Peak-Hour Traffic Volumes



**Figure 9**  
Year 2023 With Project Peak-Hour Traffic Volumes



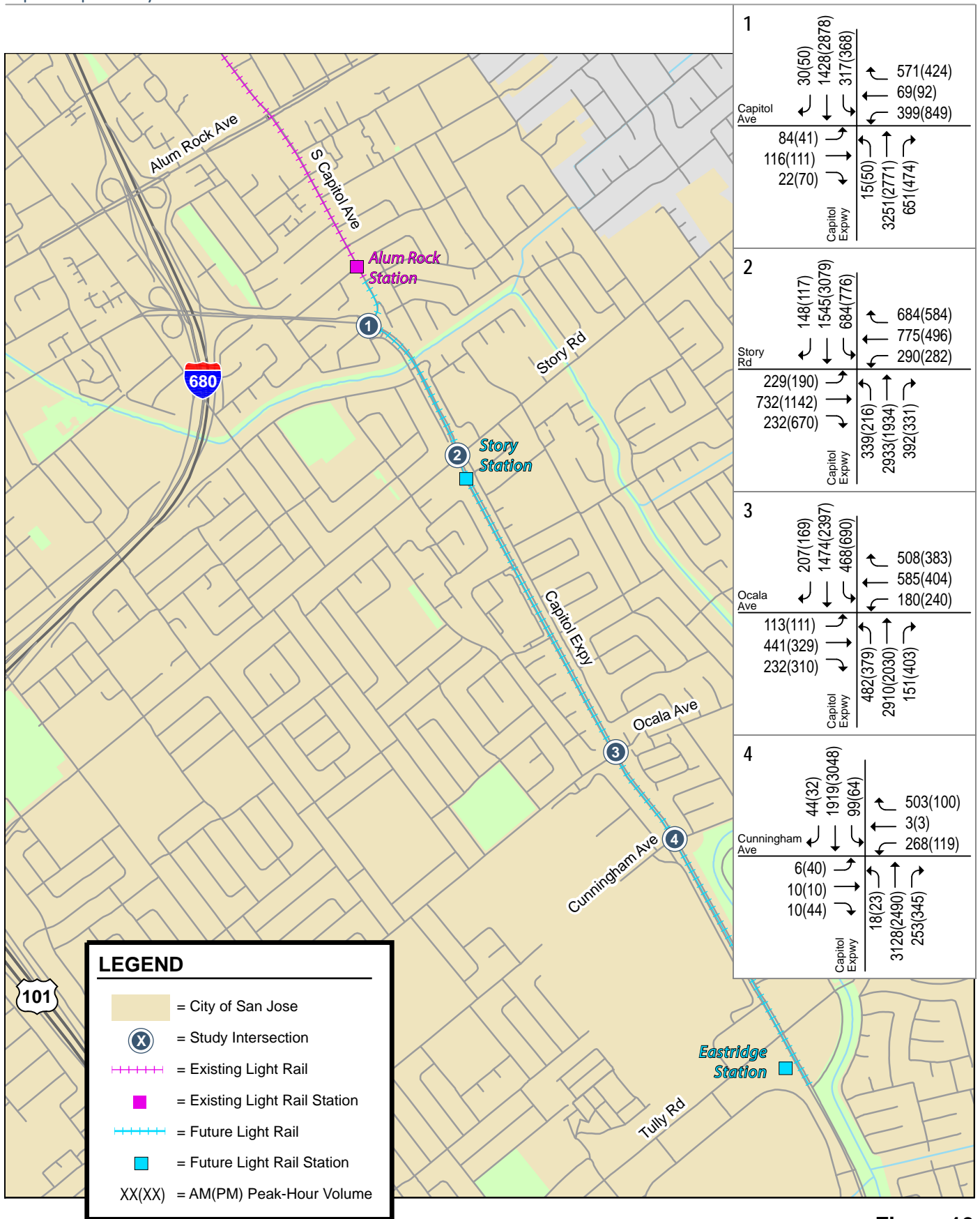


Figure 10  
Year 2043 No Project Peak-Hour Traffic Volumes

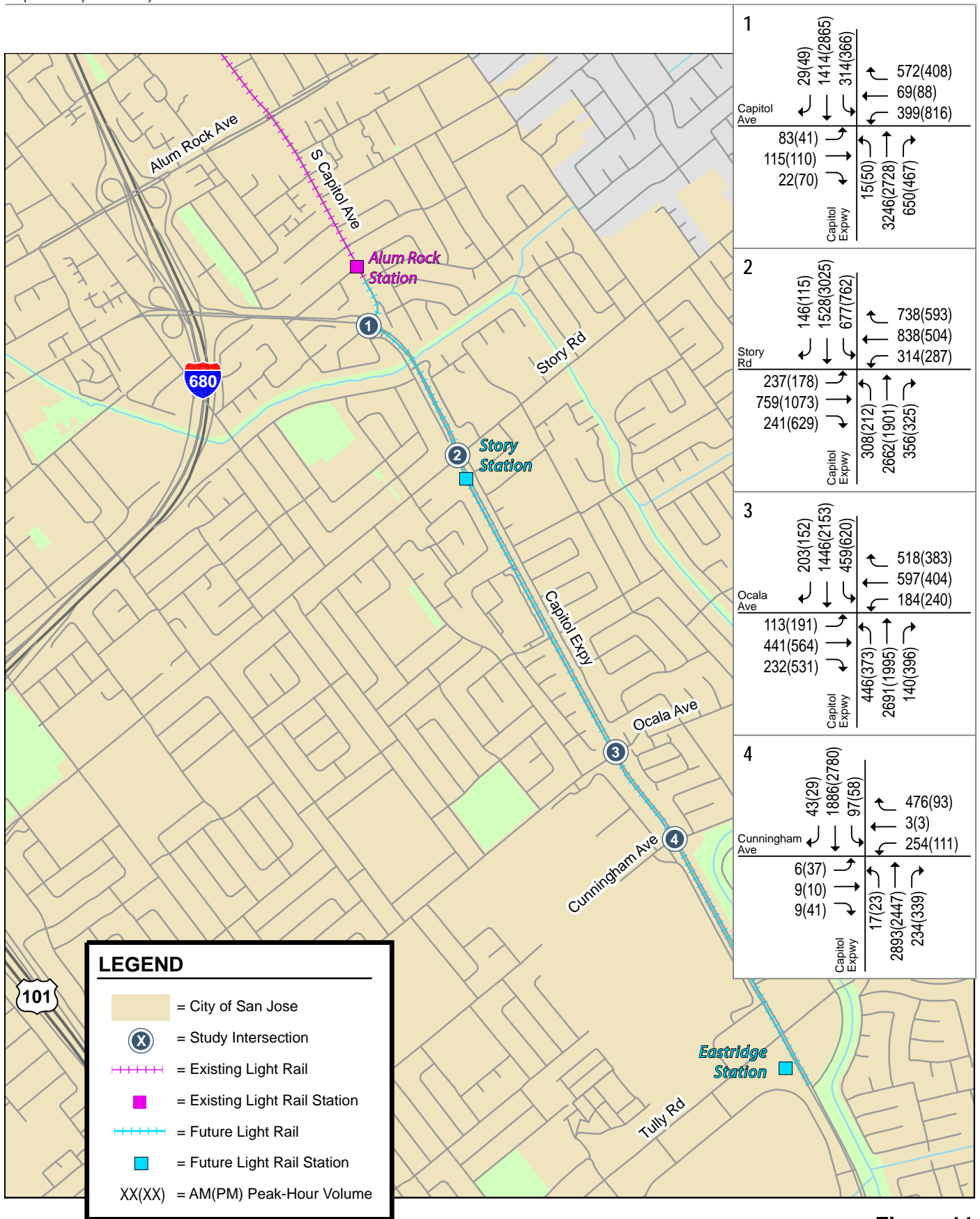


Figure 11  
Year 2043 With Project Peak-Hour Traffic Volumes

**Significant Impact #2:** The project would cause a significant impact at the intersection of Capitol Expressway and Ocala Avenue under existing, year 2023, and year 2043 conditions. This impact is caused by the removal of the HOV lanes, the removal of a northbound left turn lane on Capitol Expressway, and the addition of HOV lane traffic into the remaining mixed flow lanes.

**Mitigation Measure #2:** To mitigate this impact, the project would need to restore the HOV lanes on Capitol Expressway in the northbound and southbound directions or restore the northbound left turn lane. However, there is currently insufficient right-of-way for these improvements because the HOV lanes and left turn pocket would be removed to provide space for the light rail tracks. Replacement of the HOV lanes or left turn pocket would require removal of existing buildings and sidewalks along Capitol Expressway, which is infeasible. Therefore, this impact is considered *significant and unavoidable*.

**Table 11**  
**Existing Plus Project Intersection Level of Service**

Intersection	Peak Hour	Existing				
		No Project		With Project		
		Avg. Delay (sec/veh)	LOS	Avg. Delay (sec/veh)	LOS	Increase in Crit. Delay (sec)
Capitol Expressway & Capitol Avenue*	AM	41.4	D	44.8	D	-1.0
	PM	47.6	D	47.7	D	-1.5
Capitol Expressway & Story Road*	AM <sup>1</sup>	<b>82.5</b>	<b>F</b>	<b>119.2</b>	<b>F</b>	71.6
	PM <sup>2</sup>	<b>111.2</b>	<b>F</b>	<b>137.2</b>	<b>F</b>	9.5
Capitol Expressway & Ocala Avenue	AM	62.2	E	<b>91.2</b>	<b>F</b>	24.9
	PM	74.0	E	73.2	E	10.8
Capitol Expressway & Cunningham Avenue	AM	22.6	C	22.4	C	0.3
	PM	12.6	B	12.4	B	0.2

**Notes**

\* Denotes CMP intersection

**Bold** indicates a substandard level of service

  indicates significant project impact

<sup>1</sup> Change in V/C from No Project to Project conditions is + 0.256

<sup>2</sup> Change in V/C from No Project to Project conditions is + 0.077

**Table 12**  
**Year 2023 Intersection Level of Service**

Intersection	Peak Hour	Year 2023				
		No Project		With Project		
		Avg. Delay (sec/veh)	LOS	Avg. Delay (sec/veh)	LOS	Increase in Crit. Delay (sec)
Capitol Expressway & Capitol Avenue*	AM	42.5	D	49.6	D	3.7
	PM	48.3	D	48.9	D	-1.1
Capitol Expressway & Story Road*	AM <sup>1</sup>	<b>94.4</b>	<b>F</b>	<b>128.9</b>	<b>F</b>	66.5
	PM <sup>2</sup>	<b>123.0</b>	<b>F</b>	<b>159.0</b>	<b>F</b>	22.9
Capitol Expressway & Ocala Avenue	AM	75.6	E	<b>108.5</b>	<b>F</b>	28.6
	PM <sup>3</sup>	<b>80.3</b>	<b>F</b>	<b>85.2</b>	<b>F</b>	-51.2
Capitol Expressway & Cunningham Avenue	AM	33.0	C	29.8	C	-3.5
	PM	13.3	B	13.2	B	0.2

Notes

\* Denotes CMP intersection

**Bold** indicates a substandard level of service

  indicates significant project impact

<sup>1</sup> Change in V/C from No Project to Project conditions is + 0.279

<sup>2</sup> Change in V/C from No Project to Project conditions is + 0.095

<sup>3</sup> Change in V/C from No Project to Project conditions is + 0.158

**Table 13**  
**Year 2043 Intersection Level of Service**

Intersection	Peak Hour	Year 2043				
		No Project		With Project		
		Avg. Delay (sec/veh)	LOS	Avg. Delay (sec/veh)	LOS	Increase in Crit. Delay (sec)
Capitol Expressway & Capitol Avenue*	AM	55.9	E	67.0	E	6.3
	PM	55.5	E	69.4	E	19.1
Capitol Expressway & Story Road*	AM <sup>1</sup>	<b>113.9</b>	<b>F</b>	<b>144.5</b>	<b>F</b>	60.2
	PM <sup>2</sup>	<b>187.1</b>	<b>F</b>	<b>251.4</b>	<b>F</b>	75.2
Capitol Expressway & Ocala Avenue	AM <sup>3</sup>	<b>101.5</b>	<b>F</b>	<b>132.7</b>	<b>F</b>	24.5
	PM <sup>4</sup>	<b>101.7</b>	<b>F</b>	<b>142.8</b>	<b>F</b>	-35.9
Capitol Expressway & Cunningham Avenue	AM	41.9	D	36.5	D	-6.5
	PM	14.7	B	14.8	B	0.1

**Notes**

\* Denotes CMP intersection

**Bold** indicates a substandard level of service

  indicates significant project impact

<sup>1</sup> Change in V/C from No Project to Project conditions is + 0.318

<sup>2</sup> Change in V/C from No Project to Project conditions is + 0.124

<sup>3</sup> Change in V/C from No Project to Project conditions is + 0.041

<sup>4</sup> Change in V/C from No Project to Project conditions is + 0.198

**Average Speed and Travel Times**

The existing, year 2023, and year 2043 average travel speeds and travel times on Capitol Expressway between Tully Road and I-680 are shown on Tables 14, 15 and 16. Generally, the results show that vehicular travel times would increase and average vehicle speeds would decrease with the proposed project. This occurs because vehicular capacity would be reduced as a result of the removal of the HOV lanes on Capitol Expressway. The relationship between corridor delay and speed is shown in Appendix B.

**Table 14**  
**Existing Plus Project Travel Time on Capitol Expressway, Tully Rd to I-680**

Vehicle Type	Direction	Peak Hour	Avg. Travel Time (min:sec)		Avg. Speed (mph)	
			Existing	Existing Plus Project	Existing	Existing Plus Project
Mixed Flow	NB	AM	09:48	11:13	23	20
HOV	NB	AM	09:04	N/A	24	N/A
Mixed Flow	NB	PM	06:02	06:29	29	29
HOV	NB	PM	06:40	N/A	27	N/A
Mixed Flow	SB	AM	05:08	05:16	31	31
HOV	SB	AM	04:29	N/A	34	N/A
Mixed Flow	SB	PM	05:53	06:32	30	29
HOV	SB	PM	05:41	N/A	30	N/A

**LRT Speed and Travel time**  
 Between Alum Rock Station and the Eastridge Station, the average speed of the LRT under existing plus project is projected to be 32 mph and the average travel time is 4.5 minutes.

N/A - with the project, there would be no HOV lanes

**Table 15**  
**Year 2023 Travel Time on Capitol Expressway, Tully Rd to I-680**

Vehicle Type	Direction	Peak Hour	Avg. Travel Time (min:sec)			Avg. Speed (mph)		
			Existing	Year 2023		Existing	Year 2023	
				No Proj.	With Project		No Proj.	With Project
Mixed Flow	NB	AM	09:48	10:47	12:18	23	21	18
HOV	NB	AM	09:04	10:03	N/A	24	22	N/A
Mixed Flow	NB	PM	06:02	06:14	07:15	29	29	27
HOV	NB	PM	06:40	06:51	N/A	27	27	N/A
Mixed Flow	SB	AM	05:08	05:08	05:20	31	31	31
HOV	SB	AM	04:29	04:29	N/A	34	33	N/A
Mixed Flow	SB	PM	05:53	06:13	07:12	30	29	27
HOV	SB	PM	05:41	06:01	N/A	30	30	N/A

**LRT Speed and Travel time**  
 Between Alum Rock Station and the Eastridge Station, the average speed of the LRT under Year 2023 plus project is projected to be 32 mph and the average travel time is 4.5 minutes.

N/A - with the project, there would be no HOV lanes

**Table 16**  
**Year 2043 Travel Time on Capitol Expressway, Tully Rd to I-680**

Vehicle Type	Direction	Peak Hour	Avg. Travel Time (min:sec)			Avg. Speed (mph)		
			Existing	Year 2043	Year 2043	Existing	Year 2043	Year 2043
				No Proj.	With Project		No Proj.	With Project
Mixed Flow	NB	AM	09:48	12:07	13:28	23	18	15
HOV	NB	AM	09:04	11:23	N/A	24	19	N/A
Mixed Flow	NB	PM	06:02	09:11	13:39	29	24	15
HOV	NB	PM	06:40	09:49	N/A	27	22	N/A
Mixed Flow	SB	AM	05:08	05:16	05:31	31	31	31
HOV	SB	AM	04:29	04:37	N/A	34	32	N/A
Mixed Flow	SB	PM	05:53	07:37	08:59	30	27	24
HOV	SB	PM	05:41	07:25	N/A	30	27	N/A

**LRT Speed and Travel time**  
 Between Alum Rock Station and the Eastridge Station, the average speed of the LRT under Year 2043 plus project is projected to be 32 mph and the average travel time is 4.5 minutes.

N/A - with the project, there would be no HOV lanes

## 4. Other Transportation Issues

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This chapter presents an analysis of other transportation issues associated with the project, including:

- Parking at Eastridge Transit Center
- Impacts during construction
- Safety and Security
- Estimates of Transit Ridership
- VMT
- Mode Split

### Parking at Eastridge Transit Center

The expected park and ride demand with the project at the Eastridge Transit Center was projected by VTA using the countywide travel model (see Table 17). The travel demand model does not account for demand from employer shuttles or spillover from VTA Paratransit. The existing transit center parking supply is approximately 180 spaces and would increase to approximately 200 spaces with the LRT project. Based on VTA forecasts, relative to existing conditions, the LRT project would increase parking demand by 49 spaces at the park and ride lot. In years 2023 and 2043, the LRT project would increase park and ride demand by 165 vehicles and 197 vehicles, respectively, relative to no project conditions.



**Table 17**  
**Eastridge Transit Center Projected Parking Demand**

Scenario		Parked Vehicles
<b>Existing</b>		
	No Project	65
	With Project	<u>114</u>
	Difference	49
<b>Year 2023</b>		
	No Project	128
	With Project	<u>293</u>
	Difference	165
<b>Year 2043</b>		
	No Project	177
	With Project	<u>374</u>
	Difference	197
<u>Notes:</u>		
1) Existing parking counts provided by VTA Operations on 12/20/17		
2) Future parking estimates provide by VTA Modeling on 5/31/18		

## Impacts During Construction

The following discussion of construction impacts was adapted from the September 2012 *Capitol Expressway Light Rail Transportation Study for the Environmental Impact Statement*. Generally, the proposed change, which would elevate the LRT tracks at additional locations, would not materially change the project’s construction impacts.

Construction of light rail transit on Capitol Expressway would take place over approximately four to five years. At the height of construction, a number of construction employees and equipment would occupy portions of the street including the median at active construction locations. In the most active areas, construction would periodically reduce the number of lanes on Capitol Expressway at various times during both non-peak hours and during peak hours. As a result, construction activity on Capitol Expressway would impact traffic and the LOS at intersections and the capability of transit service to adhere to the published schedules. LOS F is expected periodically at all study intersections during construction. The construction schedule, detour planning, and public outreach would be coordinated by VTA throughout the process.

Construction of the proposed LRT would be a continuous, year-round process with construction taking place within specific segments at any one time. To the greatest extent feasible, the peak of daily construction activity in any one area would take place during the off-peak commute hours when the LOS on Capitol Expressway at most major intersections is better. Reducing the effects of the project construction on traffic would be achieved by means of the following coordinated resources:

- VTA, in concert with the County of Santa Clara and City of San Jose, would prepare a Construction Mitigation Traffic Management Plan that would be a part of the construction contract for the proposed project.
- Based on the Construction Mitigation Traffic Management Plan, contractors would use flagmen and follow a daily construction schedule that would help manage traffic during peak periods on weekdays.
- VTA would oversee construction to assure construction impacts are minimized to the greatest extent feasible. VTA would establish a field office along the project that would be open to the public during specific hours of the week.

Construction equipment traffic from contractors would be controlled by flagmen and the procedures contained in the Construction Mitigation Traffic Management Plan. Traffic that may attempt to use neighborhood streets to avoid construction areas would be controlled by two characteristics of the roadway network adjacent to Capitol Expressway:

- First, while there are no efficient, directly parallel detours around Capitol Expressway, some arterials are capable of handling traffic diverted from Capitol Expressway. White Road, King Road and Tully Road would most likely handle the diverted traffic. Portable electronic variable message signs and other static signs would be strategically positioned at approaches of individual construction zones to warn motorists in advance of the construction and direct traffic to use alternative routes where feasible. Flagmen would be at all major construction points to assist in the control of traffic and support the use of these roads as a detour.
- Second, there are very few paths of travel through neighborhood streets that offer parallel routes to Capitol Expressway. Therefore, neighborhood streets would be mostly protected from being used as cut-through streets by motorists.

Transit service on-time performance can be expected to drop during the construction period. Since the construction period would be limited in duration, no specific mitigation measures are proposed. Alternative bus stops would be located temporarily whenever existing bus stops are disrupted by construction.

Currently, bicyclists are able to use the shoulders of the expressway as a bicycle lane. During construction of the light rail project, the shoulders would not be maintained to allow bicyclists to effectively use the corridor. Detour signs would be posted directing bicyclists to use alternative corridors during construction.

Several residential properties along the corridor would be affected by construction activities. During short periods of time, access may be restricted and parking eliminated. VTA would coordinate the construction activities with the home owners/tenants. Any adjustments to the schedule would be conveyed to the residents upon determination of the need to adjust the schedule. The construction duration and disruptions to residents would be kept to a minimum.

Several businesses along the corridor would be temporarily affected by construction. During short periods of time, access may be altered. However, access to the businesses would be maintained. Property owners and businesses would be notified in advance of construction and provided with a detailed construction schedule if their access will be restricted. Changes to the construction schedule would be conveyed as soon as possible. Construction duration would be kept to a minimum. Signs

would be provided along Capitol Expressway indicating the business is open during construction and that access is available.

**Significant Impact #3:** The project's lane reductions on Capitol Expressway during construction may cause study intersections to temporarily operate at LOS F, impacting passenger vehicles, buses, and trucks. The project may also result in the temporary closures of bikeways, bus stops, and sidewalks in the corridor during construction. Because the duration, times, and locations of temporary closures during construction cannot be predicted with certainty, it is acknowledged that they could constitute a significant impact.

**Mitigation Measure #3:** During construction, VTA will prepare traffic handling plans, employ traffic flaggers, and endeavor to minimize peak hour delays to all users. However, such measures cannot guarantee that construction activities would not cause temporary significant impacts to passenger vehicles, buses, trucks, bikes, and pedestrians. Therefore, this impact is considered *significant and unavoidable*.

## Safety and Security

The following discussion of safety and security was adapted from the September 2012 *Capitol Expressway Light Rail Transportation Study for the Environmental Impact Statement*. Generally, the proposed change, which would elevate the LRT tracks at additional locations, would increase safety by eliminating the need for motor vehicles, bicycles, and pedestrians to cross the LRT tracks at the Ocala Avenue and Cunningham Avenue intersections.

At station peripheries, guardrails and fencing would segregate tracks to prevent unauthorized crossing or entry. At applicable locations, walkways would be designated within station areas to connect the light rail platform to the parking areas, bus stops and automobile passenger pick-up and drop-off areas. Along the expressway, there are currently periodic pullouts for disabled vehicles. The proposed LRT extension project would eliminate vehicle refuge areas within the project limits. However, a shoulder area would enable disabled vehicles to move to the side of the roadway and out of the through lane of travel. All traffic signals along the corridor will be upgraded to improve safety. Upgrades will include the addition of audio signals and pedestrian countdown timers.

Station platforms would be designed and located to be visible from the adjacent roadways. All platforms and park-and-ride lots would be lit in the evening and night-time hours to enhance security. VTA security would patrol and remotely monitor all facilities on a regular basis to maintain passenger security.

## Estimates of Station Ridership

Estimates of daily transit boardings, by station, were provided by VTA from the countywide travel demand forecasting model. The 2017, 2023, and 2043 daily boardings by station, with and without the proposed project, are provided in Table 18. The data show that, with the project, total boardings at the Alum Rock Station would decrease, while the number of boardings would increase at the Story Station and Eastridge Station. This is expected given that Alum Rock is currently an end of line station, and the addition of more stations would allow patrons to select the most convenient location. The mode of arrival data by station are shown on Table 19. These data show that, with the project, the highest percentage of LRT boardings at the Eastridge Transit Center arrive by way of bus transfer, while the highest percentage of boardings at the Story and Alum Rock stations arrive by walking. The mode split data for all trips in east San Jose and Milpitas are shown in Table 20. These data show that, with

the project, there would be a small decrease in “drive alone” and “carpool” mode share and a small increase in transit mode share.

**Table 18**  
**Station Boarding Estimate**

	Eastridge		Story		Alum Rock		Totals		
	No Project	With Project	No Project	With Project	No Project	With Project	No Project	With Project	
<b>Daily Boardings</b>									
<b>Year 2017</b>									
LRT	0	495	0	270	781	574	781	1,339	
Bus	<u>209</u>	<u>163</u>	<u>263</u>	<u>256</u>	<u>359</u>	<u>230</u>	<u>831</u>	<u>649</u>	
Total	209	658	263	526	1,140	804	1,612	1,988	
<b>Year 2023</b>									
LRT	0	1,224	0	777	1,745	979	1,745	2,980	
Bus	<u>896</u>	<u>918</u>	<u>379</u>	<u>418</u>	<u>862</u>	<u>506</u>	<u>2,137</u>	<u>1,842</u>	
Total	896	2,142	379	1,195	2,607	1,485	3,882	4,822	
<b>Year 2043</b>									
LRT	0	2,287	0	1,040	2,322	1,207	2,322	4,534	
Bus	<u>966</u>	<u>518</u>	<u>472</u>	<u>401</u>	<u>1,036</u>	<u>659</u>	<u>2,474</u>	<u>1,578</u>	
Total	966	2,805	472	1,441	3,358	1,866	4,796	6,112	
Source: VTA Email 8/15/18									

**Table 19**  
**Mode of Arrival with Project**

Station	Walk	Park-and-Ride	Drop Off	Transfer from Bus
Eastridge	25%	11%	2%	62%
Story	59%	0%	0%	41%
Alum Rock	39%	34%	7%	20%
Source: Email from VTA 4/20/18				

**Table 20**  
**East San Jose/Milpitas Mode Split**

Mode	Existing 2017	Year 2023		Year 2043	
		No Project	With Project	No Project	With Project
Drive Alone	54.21%	53.85%	53.82%	50.77%	50.73%
Carpool	35.71%	35.53%	35.52%	34.05%	34.03%
Transit	2.53%	3.17%	3.21%	5.84%	5.91%
Bike	1.17%	1.21%	1.21%	1.59%	1.59%
Walk	6.39%	6.25%	6.25%	7.74%	7.74%

Source: VTA email 8/15/18

### Vehicle Miles Traveled

In 2013, the State of California passed Senate Bill (SB) 743, which calls for a shift away from measures based on automobile delay. This is commonly measured by LOS in transportation analysis under CEQA. Since 2013, the State has issued several rounds of guidelines to assist Lead Agencies in implementing SB 743. These guidelines generally recommend the use of a broader measure called Vehicle Miles Traveled (VMT), which measures the total amount of driving over a given area.

In January 2018, the California Natural Resources Agency began a rule-making period for the official changes to the state CEQA Guidelines to implement SB 743. In the Natural Resources Agency’s Proposed Regulatory Text, new Section 15064.3(b)2 states that “Transportation projects that reduce, or have no impact on, vehicle miles traveled should be presumed to cause a less than significant transportation impact.” The LRT extension is likely to reduce VMT because it creates an enhanced transit service that connects to the regional BART system, which should shift some automobile trips to transit. The project also reduces roadway capacity for a portion of the corridor by eliminating the HOV lanes on Capitol Expressway between Story Road and Tully Road. According to the Office of Planning and Research’s Technical Advisory on Evaluating Transportation Impacts in CEQA dated April 2018, “reducing roadway capacity (for example, by removing or repurposing motor vehicle travel lanes) will generally reduce VMT and therefore is presumed to cause a less-than-significant impact on transportation”. Generally, no transportation analysis is needed for such projects. Considering all of these factors, it is likely that the project will reduce VMT as compared with the no project conditions.

## 5. Conclusions

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This study was conducted for the purpose of supporting the *Capitol Expressway Light Rail Transportation Study for the Environmental Impact Statement* published in September 2012, which identified the potential transportation impacts of the project assuming a hybrid aerial/at-grade profile. The potential impacts of a revised project with a full aerial profile were evaluated in accordance with the standards set forth by the Santa Clara Valley Transportation Authority Congestion Management Program and the California Environmental Quality Act. The study identified the following significant impacts:

**Significant Impact #1:** The project would cause a significant impact at the intersection of Capitol Expressway and Story Road under existing, year 2023, and year 2043 conditions. This impact is caused by the removal of the HOV lanes and the addition of HOV lane traffic into the remaining mixed flow lanes.

**Mitigation Measure #1:** To mitigate this impact, the project would need to restore the HOV lanes on Capitol Expressway in the northbound and southbound directions. However, there is currently insufficient right-of-way for this improvement because the HOV lanes would be removed to provide space for the light rail tracks. Replacement of the HOV lanes would require removal of existing buildings and sidewalks along Capitol Expressway, which is infeasible. Therefore, this impact is considered *significant and unavoidable*.

**Significant Impact #2:** The project would cause a significant impact at the intersection of Capitol Expressway and Ocala Avenue under existing, year 2023, and year 2043 conditions. This impact is caused by the removal of the HOV lanes, the removal of a northbound left turn lane on Capitol Expressway, and the addition of HOV lane traffic into the remaining mixed flow lanes.

**Mitigation Measure #2:** To mitigate this impact, the project would need to restore the HOV lanes on Capitol Expressway in the northbound and southbound directions or restore the northbound left turn lane. However, there is currently insufficient right-of-way for these improvements because the HOV lanes and left turn pocket would be removed to provide space for the light rail tracks. Replacement of the HOV lanes or left turn pocket would require removal of existing buildings and sidewalks along Capitol Expressway, which is infeasible. Therefore, this impact is considered *significant and unavoidable*.

**Significant Impact #3:** The project's lane reductions on Capitol Expressway during construction may cause study intersections to temporarily operate at LOS F, impacting passenger vehicles, buses, and trucks. The project may also result in the temporary closures of bikeways, bus stops, and sidewalks in the corridor during construction. Because the duration, times, and locations of temporary closures during construction cannot be predicted with certainty, it is acknowledged that they could constitute a significant impact.

**Mitigation Measure #3:** During construction, VTA will prepare traffic handling plans, employ traffic flaggers, and endeavor to minimize peak hour delays to all users. However, such measures cannot guarantee that construction activities would not cause temporary significant impacts to passenger vehicles, buses, trucks, bikes, and pedestrians. Therefore, this impact is considered *significant and unavoidable*.

The analysis also noted the following conclusions:

- The project's proposed aerial alignment would result in fewer conflicts between light rail vehicles and school buses, bikes and pedestrians.
- The project's removal of the existing HOV lanes would result in higher average auto delays and longer auto travel times on Capitol Expressway.
- The LRT extension is likely to reduce VMT because it creates an enhanced transit service that connects to the regional BART system, which should shift some automobile trips to transit. In addition, reducing roadway capacity by removal of travel lanes on Capitol Expressway will generally reduce VMT, and therefore is presumed to cause a less-than-significant impact on transportation.

# **LRT Extension Technical Appendices**

August 2018



## **Appendix A**

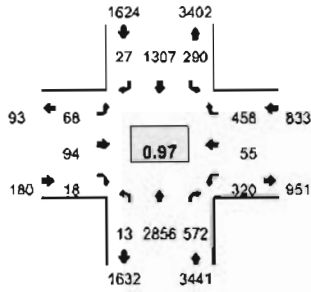
### **Traffic Counts**

Type of peak hour being reported: Intersection Peak

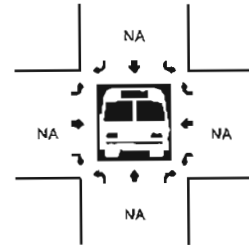
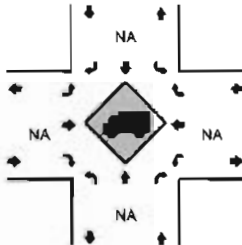
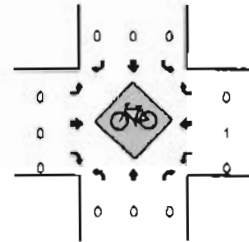
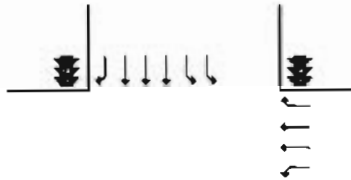
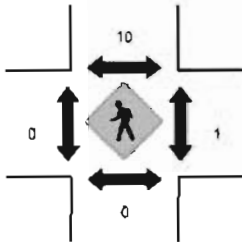
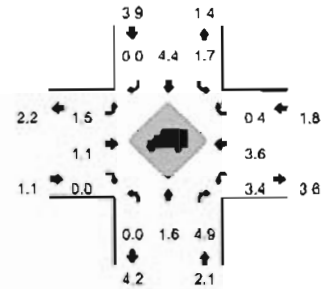
Method for determining peak hour: Total Entering Volume

LOCATION: Capitol Expy -- S Capitol Ave  
 CITY/STATE: San Jose, CA

QC JOB #: 14533304  
 DATE: Wed, Nov 01 2017



Peak-Hour: 7:35 AM -- 8:35 AM  
 Peak 15-Min: 7:35 AM -- 7:50 AM



S-Min Count Period	Capitol Expy (Northbound)				Capitol Expy (Southbound)				S Capitol Ave (Eastbound)				S Capitol Ave (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
7:00 AM	0	259	21	0	8	81	0	0	3	0	1	0	8	2	34	2	400	
7:05 AM	3	228	20	0	10	88	1	1	6	3	2	0	12	4	42	2	422	
7:10 AM	0	232	29	0	12	70	1	2	7	0	3	0	15	1	32	0	404	
7:15 AM	0	285	40	0	14	98	5	0	2	2	3	0	18	3	37	0	507	
7:20 AM	2	234	30	0	9	103	2	3	5	6	3	0	12	2	46	0	457	
7:25 AM	0	186	20	0	20	95	6	2	9	5	3	0	29	4	59	0	438	
7:30 AM	1	208	26	0	18	89	4	1	10	7	2	0	27	1	42	1	437	
7:35 AM	0	277	42	0	14	113	3	0	7	10	3	0	28	1	42	0	538	
7:40 AM	0	217	38	1	26	152	2	2	4	6	3	0	22	4	56	1	534	
7:45 AM	0	185	37	0	31	125	1	0	10	14	1	0	35	5	55	1	500	
7:50 AM	0	216	45	0	27	108	4	2	4	14	5	0	36	11	32	0	504	
7:55 AM	0	283	51	0	11	74	0	2	10	13	1	0	35	3	42	2	507	5648
8:00 AM	2	264	50	0	27	135	3	4	8	2	1	0	11	2	22	1	530	5778
8:05 AM	3	231	48	0	24	123	4	0	8	8	1	0	24	5	43	0	522	5878
8:10 AM	0	185	56	0	28	94	3	5	3	5	0	0	44	6	39	3	471	5945
8:15 AM	0	270	57	0	13	76	2	1	8	2	1	0	20	8	26	4	488	5926
8:20 AM	1	296	55	0	28	110	3	2	2	4	1	0	15	5	25	0	547	6016
8:25 AM	4	223	41	1	21	97	2	2	3	12	0	0	16	3	44	0	469	6047
8:30 AM	1	229	52	0	20	100	0	0	3	4	1	0	21	2	32	3	468	6078
8:35 AM	4	278	49	0	19	87	2	0	0	7	2	0	31	4	42	1	504	6044
8:40 AM	0	284	45	0	15	110	1	0	3	4	1	0	21	3	31	1	519	6029
8:45 AM	2	236	32	0	17	107	1	1	5	4	1	0	21	0	25	3	455	5984
8:50 AM	2	233	49	1	20	89	0	1	0	1	2	0	30	3	23	0	454	5934
8:55 AM	4	228	48	0	22	66	2	2	2	3	2	0	32	4	20	0	435	5862
Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total	
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
All Vehicles	0	2716	488	4	284	1560	24	8	84	120	28	0	332	40	612	8	6288	
Heavy Trucks	0	28	16		4	64	0		4	0	0		8	0	4		128	
Pedestrians	0	0	0		8	0	0		0	0	0		0	0	0		8	
Bicycles	0	0	0		0	0	0		0	0	0		0	0	0		0	
Railroad																		
Stopped Buses																		

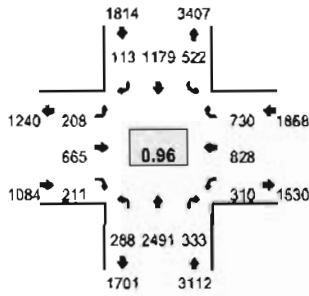
Comments:

Type of peak hour being reported: Intersection Peak

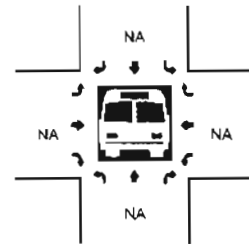
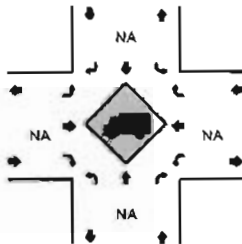
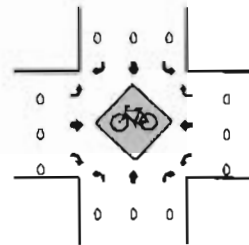
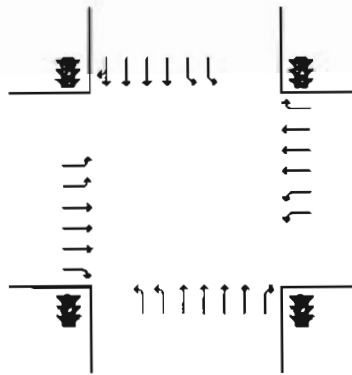
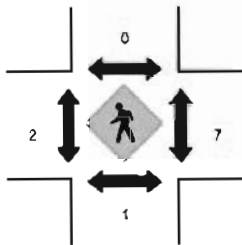
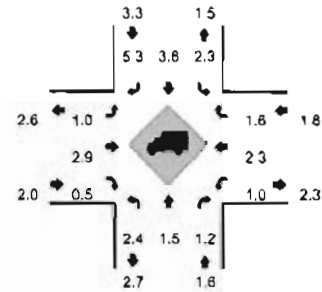
Method for determining peak hour: Total Entering Volume

LOCATION: Capitol Expy -- Story Rd  
CITY/STATE: San Jose, CA

QC JOB #: 14533303  
DATE: Wed, Nov 01 2017



Peak-Hour: 7:35 AM -- 8:35 AM  
Peak 15-Min: 7:35 AM -- 7:50 AM



5-Min Count Period	Capitol Expy (Northbound)				Capitol Expy (Southbound)				Story Rd (Eastbound)				Story Rd (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
7:00 AM	9	261	13	1	23	43	10	2	6	15	8	0	11	36	48	1	485	
7:05 AM	12	196	15	0	31	60	5	0	11	18	7	3	16	44	68	0	486	
7:10 AM	23	192	24	0	28	56	3	0	12	27	10	1	19	71	75	1	542	
7:15 AM	15	278	13	3	22	76	8	3	11	34	9	1	18	60	71	1	623	
7:20 AM	6	235	18	1	30	75	17	0	17	25	7	2	19	29	43	1	525	
7:25 AM	13	179	11	0	44	83	20	2	8	37	7	1	11	80	85	0	559	
7:30 AM	23	139	14	3	54	48	3	0	21	70	8	2	21	74	67	2	548	
7:35 AM	11	228	23	0	32	128	8	0	11	60	13	5	35	91	48	0	693	
7:40 AM	30	224	48	3	41	143	14	0	9	39	13	1	21	44	55	0	685	
7:45 AM	20	177	24	1	51	122	3	0	9	69	20	6	28	72	59	2	663	
7:50 AM	18	143	38	1	45	95	4	1	15	74	22	3	16	68	54	1	598	
7:55 AM	19	220	24	0	16	88	10	0	19	73	22	4	26	68	53	1	641	7048
8:00 AM	32	225	29	0	45	108	12	0	19	32	21	2	32	90	80	0	727	7290
8:05 AM	37	212	23	0	46	112	5	0	7	70	13	2	7	50	50	0	634	7438
8:10 AM	13	162	18	0	63	88	21	0	13	62	25	0	23	77	64	2	631	7527
8:15 AM	18	222	35	3	45	53	6	2	20	55	18	1	29	76	64	2	649	7553
8:20 AM	17	240	22	3	27	89	10	0	25	53	11	1	32	54	56	2	642	7670
8:25 AM	31	261	24	2	59	80	6	0	11	25	21	0	26	58	67	0	671	7782
8:30 AM	28	177	25	1	49	75	14	0	25	63	12	0	22	80	80	3	644	7878
8:35 AM	19	202	17	0	42	71	9	1	15	57	14	4	34	66	73	0	624	7809
8:40 AM	1	263	14	0	21	98	12	0	9	48	11	4	38	73	64	1	655	7779
8:45 AM	17	248	21	2	33	90	7	0	28	53	20	7	17	51	87	0	659	7775
8:50 AM	32	173	24	1	41	83	9	1	7	39	5	5	16	36	53	0	525	7702
8:55 AM	18	193	14	2	69	52	7	0	17	28	18	2	17	36	39	2	514	7575
Peak 15-Min	Northbound				Southbound				Eastbound				Westbound				Total	
Flowrates	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
All Vehicles	244	2516	380	16	496	1572	100	0	116	672	184	48	336	828	648	8	8164	
Heavy Trucks	12	44	8		20	44	4		0	12	4		0	16	4		168	
Pedestrians	0	0	0		0	0	0		4	4	0		4	4	0		8	
Bicycles	0	0	0		0	0	0		0	0	0		0	0	0		0	
Railroad																		
Stopped Buses																		

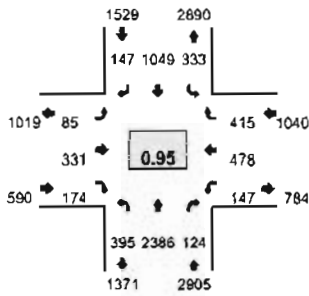
Comments.

Type of peak hour being reported: Intersection Peak

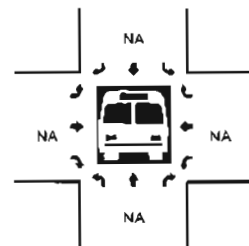
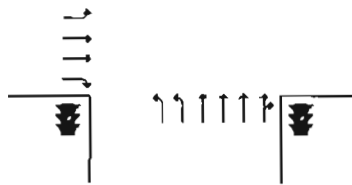
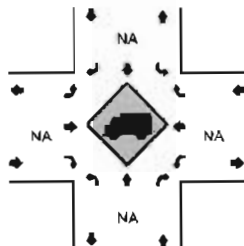
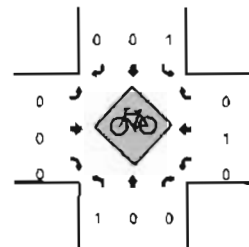
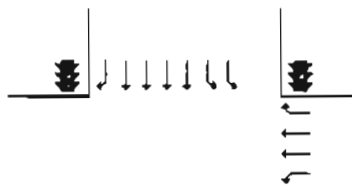
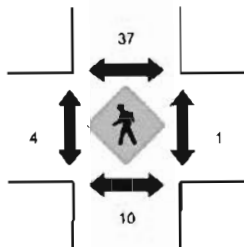
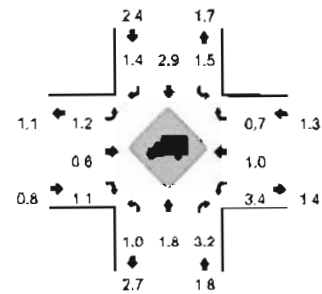
Method for determining peak hour: Total Entering Volume

LOCATION: Capitol Expy – Ocala Ave  
CITY/STATE: San Jose, CA

QC JOB #: 14533305  
DATE: Wed, Nov 01 2017



Peak-Hour: 7:45 AM – 8:45 AM  
Peak 15-Min: 7:45 AM -- 8:00 AM



5-Min Count Period Beginning At	Capitol Expy (Northbound)				Capitol Expy (Southbound)				Ocala Ave (Eastbound)				Ocala Ave (Westbound)				Total	Hourly Totals	
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U			
7:00 AM	9	210	11	0	9	39	2	0	11	11	14	0	19	14	34	0	383		
7:05 AM	16	249	5	0	18	41	4	0	10	3	4	0	10	9	27	0	396		
7:10 AM	11	188	9	1	29	48	6	0	4	18	8	0	12	18	25	0	377		
7:15 AM	27	157	9	0	26	63	10	0	4	25	8	0	13	29	48	0	419		
7:20 AM	26	224	8	0	15	33	12	1	4	31	6	0	10	51	38	0	459		
7:25 AM	31	230	11	0	34	53	15	0	2	7	16	0	15	25	27	0	466		
7:30 AM	26	196	11	0	36	59	14	2	0	31	18	0	6	46	51	0	498		
7:35 AM	23	113	11	0	40	94	12	0	12	31	14	0	13	36	30	0	429		
7:40 AM	33	175	14	0	13	65	13	2	9	27	22	0	22	44	31	0	470		
7:45 AM	34	206	26	0	37	122	17	0	10	25	18	0	19	36	22	0	572		
7:50 AM	36	190	7	1	33	110	17	0	6	31	25	0	6	42	27	0	531		
7:55 AM	14	142	11	0	34	103	17	0	7	40	11	0	18	60	29	0	486	5484	
8:00 AM	48	164	16	0	29	74	14	1	12	37	22	0	0	44	43	0	504	5605	
8:05 AM	36	201	12	0	25	81	9	1	7	41	18	0	16	37	24	0	508	5717	
8:10 AM	34	236	13	0	38	102	10	0	8	38	12	0	4	36	34	0	565	5905	
8:15 AM	25	180	8	0	39	72	11	1	5	31	12	0	13	41	37	0	475	5961	
8:20 AM	36	164	5	0	27	67	14	0	7	33	9	0	14	47	43	0	466	5968	
8:25 AM	44	233	7	0	13	60	9	1	5	15	11	0	14	45	41	0	498	6000	
8:30 AM	19	237	5	0	30	67	6	0	8	6	9	0	17	22	38	0	464	5968	
8:35 AM	27	225	9	0	14	96	12	0	3	18	10	0	12	33	36	0	495	6034	
8:40 AM	41	208	5	0	10	95	11	0	7	16	17	0	14	35	41	0	500	6064	
8:45 AM	18	200	15	0	11	78	13	1	7	14	19	0	17	31	39	0	463	5955	
8:50 AM	12	173	7	1	9	98	18	1	9	9	18	0	11	14	25	0	405	5829	
8:55 AM	13	178	8	0	18	88	13	0	6	10	14	0	9	19	25	0	401	5744	
Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total		
All Vehicles	336	2152	176	4	416	1340	204	0	92	384	216	0	172	552	312	0	6356		
Heavy Trucks	0	40	8		8	28	4		0	0	4		8	4	4		108		
Pedestrians		16				36				4				0				56	
Bicycles	1	0	0		0	0	0		0	0	0		0	0	0		1		
Railroad																			
Stopped Buses																			

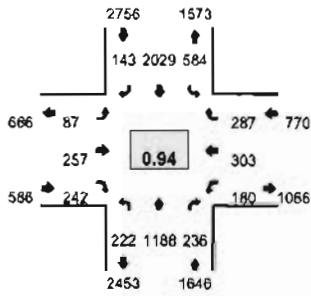
Comments:

Type of peak hour being reported: Intersection Peak

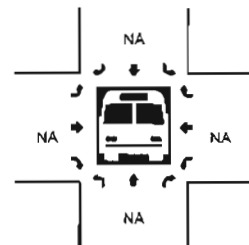
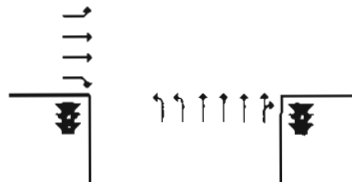
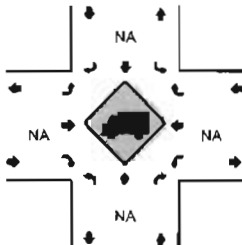
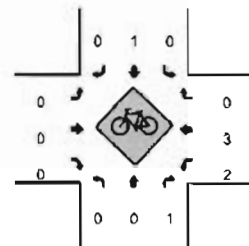
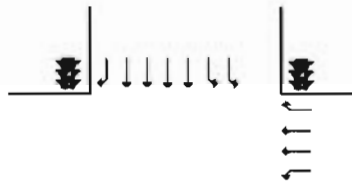
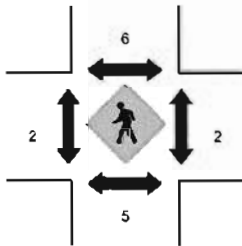
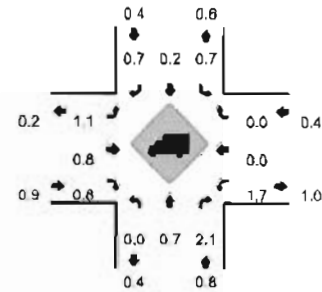
Method for determining peak hour: Total Entering Volume

LOCATION: Capitol Expy -- Ocala Ave  
CITY/STATE: San Jose, CA

QC JOB #: 14533306  
DATE: Wed, Nov 01 2017



Peak-Hour: 4:50 PM -- 5:50 PM  
Peak 15-Min: 5:15 PM -- 5:30 PM



5-Min Count Period	Capitol Expy (Northbound)				Capitol Expy (Southbound)				Ocala Ave (Eastbound)				Ocala Ave (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
4:00 PM	11	78	25	0	43	180	11	0	3	19	16	0	11	18	20	0	435	
4:05 PM	9	85	20	0	44	160	8	1	14	23	15	0	12	15	14	0	420	
4:10 PM	22	109	15	0	52	176	6	0	14	13	15	0	12	11	22	0	467	
4:15 PM	22	110	6	0	50	149	10	4	5	17	20	0	10	27	25	0	455	
4:20 PM	24	104	18	0	31	158	9	1	7	24	14	0	17	27	26	0	460	
4:25 PM	18	68	17	0	54	157	11	0	7	17	18	0	15	30	19	0	431	
4:30 PM	23	84	11	1	44	164	9	1	10	22	14	1	11	17	20	0	432	
4:35 PM	18	76	14	1	49	128	8	1	3	25	22	0	15	25	19	0	404	
4:40 PM	6	105	21	0	29	187	9	3	10	20	18	0	14	29	34	0	485	
4:45 PM	17	106	15	0	46	157	8	1	10	17	14	0	17	18	19	0	445	
4:50 PM	22	104	18	1	44	187	14	1	9	12	19	0	11	15	25	0	482	
4:55 PM	15	112	21	1	51	179	10	1	4	22	25	0	11	28	16	0	496	5412
5:00 PM	17	80	23	0	37	164	12	4	5	21	15	0	19	25	18	0	440	5417
5:05 PM	18	93	16	0	45	145	10	0	9	26	26	0	21	31	27	0	467	5464
5:10 PM	24	92	13	0	52	152	9	0	8	24	21	0	18	29	20	0	462	5459
5:15 PM	12	116	22	0	56	175	16	0	7	21	27	0	15	23	29	0	519	5523
5:20 PM	12	108	15	0	33	184	12	0	8	23	21	0	24	30	33	0	503	5566
5:25 PM	22	118	27	0	53	197	7	1	10	13	14	0	9	15	18	0	504	5639
5:30 PM	22	98	26	0	49	166	17	1	9	17	15	0	9	28	22	0	479	5686
5:35 PM	23	59	14	0	54	127	8	1	10	33	19	0	17	25	27	0	417	5699
5:40 PM	11	102	21	0	47	167	12	0	6	28	25	0	16	31	25	0	491	5705
5:45 PM	22	106	20	0	52	186	16	2	2	17	15	0	10	23	27	0	498	5758
5:50 PM	23	91	18	0	44	139	14	1	5	21	28	0	15	29	20	0	448	5724
5:55 PM	24	62	13	0	55	149	12	2	8	30	26	0	17	23	33	0	454	5682
Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total	
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
All Vehicles	184	1368	256	0	568	2224	140	4	100	228	248	0	192	272	320	0	6104	
Heavy Trucks	0	12	8		4	12	0		0	0	4		4	0	0		44	
Pedestrians		12				4				0				0			16	
Bicycles	0	0	1		0	0	0		0	0	0		1	2	0		4	
Railroad																		
Stopped Buses																		

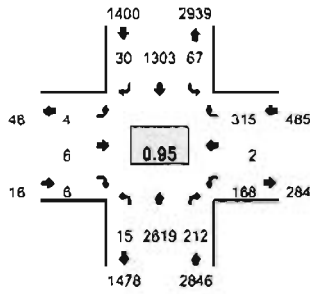
Comments:

Type of peak hour being reported: Intersection Peak

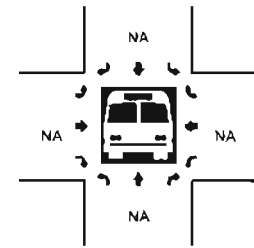
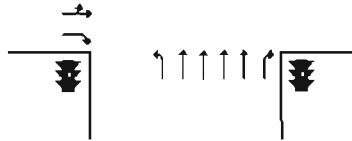
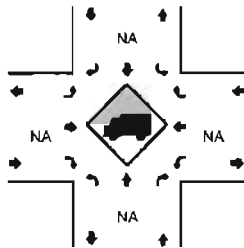
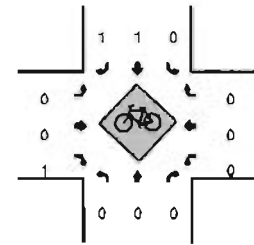
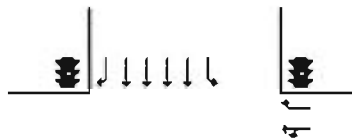
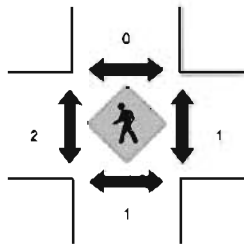
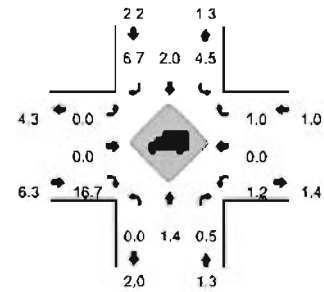
Method for determining peak hour: Total Entering Volume

LOCATION: Capitol Expy – Cunningham Ave  
 CITY/STATE: San Jose, CA

QC JOB #: 14533307  
 DATE: Wed, Nov 01 2017



Peak-Hour: 7:45 AM -- 8:45 AM  
 Peak 15-Min: 8:05 AM – 8:20 AM



5-Min Count Period	Capitol Expy (Northbound)				Capitol Expy (Southbound)				Cunningham Ave (Eastbound)				Cunningham Ave (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
7:00 AM	3	217	4	0	1	66	3	1	1	0	0	0	12	2	15	0	325	
7:05 AM	2	241	5	0	2	54	0	0	2	0	3	0	3	1	12	0	325	
7:10 AM	0	213	12	0	1	75	1	0	0	0	0	0	19	1	21	0	343	
7:15 AM	1	200	14	0	0	85	1	0	2	0	0	0	10	0	17	0	330	
7:20 AM	0	201	22	0	0	52	0	0	1	0	4	0	22	0	28	0	330	
7:25 AM	0	232	16	1	1	72	0	0	1	0	0	0	12	1	22	0	358	
7:30 AM	0	211	14	0	4	82	5	0	0	0	0	0	18	0	17	0	351	
7:35 AM	0	153	15	1	1	126	0	2	0	0	0	0	20	0	26	0	344	
7:40 AM	1	203	16	0	1	109	2	0	0	0	1	0	29	0	17	0	379	
7:45 AM	0	218	22	0	7	153	2	0	0	0	0	0	18	0	22	0	442	
7:50 AM	0	217	17	0	5	129	2	0	0	0	2	0	8	0	20	0	400	
7:55 AM	1	185	11	0	11	123	7	0	1	0	1	0	19	0	22	0	381	4308
8:00 AM	1	194	16	0	16	86	2	0	1	2	0	0	19	0	24	0	361	4344
8:05 AM	1	215	19	0	9	110	1	0	0	0	0	0	21	0	28	0	404	4423
8:10 AM	3	260	23	0	4	109	4	0	0	2	1	0	3	0	29	0	438	4518
8:15 AM	0	228	12	0	7	101	1	0	0	0	0	0	12	1	41	0	403	4581
8:20 AM	1	236	21	0	1	88	1	0	0	0	0	0	19	0	28	0	395	4656
8:25 AM	2	165	23	0	4	84	2	0	2	0	1	0	17	1	40	0	341	4639
8:30 AM	2	235	15	0	0	92	1	0	0	0	0	0	8	0	10	0	363	4651
8:35 AM	2	250	13	1	0	116	3	0	0	1	0	0	12	0	29	0	427	4734
8:40 AM	1	216	20	0	2	112	4	1	0	1	1	0	12	0	22	0	392	4747
8:45 AM	1	179	9	0	3	110	2	0	1	0	1	0	6	0	14	0	326	4631
8:50 AM	0	165	7	0	4	129	5	0	1	0	1	0	11	0	12	0	335	4566
8:55 AM	3	180	6	0	1	101	3	0	2	0	0	0	2	1	16	0	325	4510
Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total	
Beginning At	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
All Vehicles	16	2812	216	0	80	1280	24	0	0	8	4	0	144	4	392	0	4980	
Heavy Trucks	0	40	4		4	40	0		0	0	0		4	0	4		98	
Pedestrians	0	0			0	0			0	0			4	4			4	
Bicycles	0	0	0		0	1	0		0	0	0		0	0	0		1	
Railroad																		
Stopped Buses																		

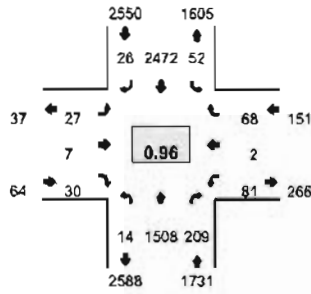
Comments:

Type of peak hour being reported: Intersection Peak

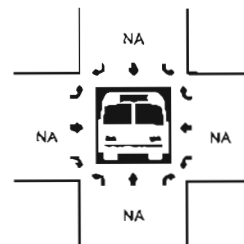
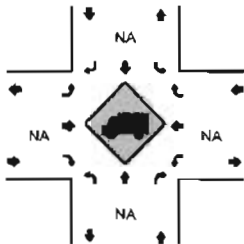
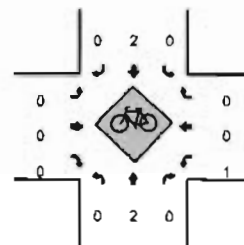
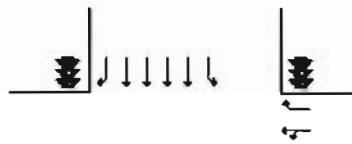
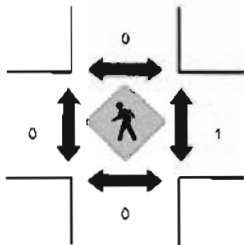
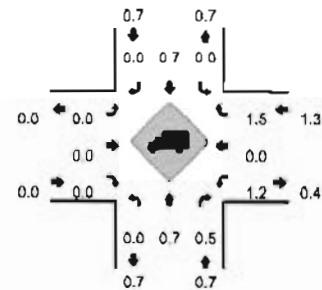
Method for determining peak hour: Total Entering Volume

LOCATION: Capitol Expy – Cunningham Ave  
 CITY/STATE: San Jose, CA

QC JOB #: 14533308  
 DATE: Wed, Nov 01 2017



Peak-Hour: 4:50 PM -- 5:50 PM  
 Peak 15-Min: 5:20 PM -- 5:35 PM



5-Min Count Period	Capitol Expy (Northbound)				Capitol Expy (Southbound)				Cunningham Ave (Eastbound)				Cunningham Ave (Westbound)				Total	Hourly Totals
	Beginning At	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right		
4:00 PM	1	101	19	1	3	203	2	0	2	0	2	0	6	0	5	0	345	
4:05 PM	1	115	29	0	1	175	1	0	1	2	1	0	1	0	5	0	332	
4:10 PM	3	158	22	0	6	207	3	0	1	1	6	0	8	1	5	0	419	
4:15 PM	2	102	18	1	4	178	0	0	2	0	0	0	9	1	5	0	322	
4:20 PM	0	137	11	2	5	183	2	1	3	0	1	0	13	0	3	0	361	
4:25 PM	0	107	22	0	4	188	0	0	4	2	4	0	7	0	6	0	344	
4:30 PM	1	96	8	0	6	185	0	0	0	1	3	0	5	1	6	0	312	
4:35 PM	0	116	13	0	3	162	2	0	3	0	2	0	8	2	3	0	314	
4:40 PM	0	107	16	0	3	210	5	0	1	1	4	0	11	0	7	0	365	
4:45 PM	1	138	8	2	0	183	0	0	2	0	3	0	4	0	9	0	350	
4:50 PM	0	127	17	0	4	217	1	0	4	2	1	0	6	0	12	0	391	
4:55 PM	1	115	20	0	6	218	4	0	1	0	3	0	9	0	8	0	385	4240
5:00 PM	0	110	14	0	2	194	4	0	4	0	4	0	7	0	3	0	342	4237
5:05 PM	1	135	16	1	3	177	4	0	4	2	4	0	6	0	4	0	357	4262
5:10 PM	0	119	23	0	5	189	0	0	4	0	3	0	7	0	7	0	357	4200
5:15 PM	2	119	15	1	3	221	3	0	2	1	3	0	7	0	5	0	382	4260
5:20 PM	0	145	14	1	5	215	2	0	1	0	3	0	3	1	5	0	395	4294
5:25 PM	2	137	12	0	2	219	1	0	0	0	1	0	2	0	5	0	381	4331
5:30 PM	3	137	21	0	4	211	2	0	0	0	2	0	11	0	6	0	397	4416
5:35 PM	0	98	19	0	9	160	2	0	3	1	1	0	7	0	5	0	305	4407
5:40 PM	0	124	25	0	2	230	2	0	3	1	2	0	6	1	5	0	401	4443
5:45 PM	0	142	13	2	5	221	1	2	1	0	3	0	10	0	3	0	403	4496
5:50 PM	1	107	17	0	3	209	3	0	0	0	1	0	13	0	8	0	362	4487
5:55 PM	2	127	15	0	2	208	2	1	0	0	3	0	13	1	7	0	379	4461
Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total	
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
All Vehicles	20	1676	188	4	44	2580	20	0	4	0	24	0	64	4	64	0	4692	
Heavy Trucks	0	20	0		0	20	0		0	0	0		0	0	0		40	
Pedestrians		0				0				0				4			4	
Bicycles	0	0	0		0	0	0		0	0	0		0	0	0		0	
Railroad																		
Stopped Buses																		

Comments:



**HOV**

**Location:** Capitol Expy & S Capitol Ave

**Date:** 11/1/2017

**Time:** 7:00 AM - 9:00 AM

**Site Code:** 14533304

Start Time	Northbound			Southbound		
	Passenger Cars	Heavy Vehicles	Buses	Passenger Cars	Heavy Vehicles	Buses
7:00 AM	51	1	0	9	1	0
7:05 AM	39	2	0	17	1	0
7:10 AM	40	2	0	17	3	0
7:15 AM	56	0	0	29	2	0
7:20 AM	49	3	0	30	1	0
7:25 AM	33	2	0	25	0	0
7:30 AM	34	0	0	22	2	0
7:35 AM	39	1	0	38	3	0
7:40 AM	31	2	0	46	0	0
7:45 AM	31	3	0	43	4	0
7:50 AM	34	3	0	39	1	0
7:55 AM	39	2	0	23	0	0
8:00 AM	30	0	0	47	3	0
8:05 AM	39	1	0	29	2	0
8:10 AM	28	1	0	27	2	0
8:15 AM	43	1	0	18	2	0
8:20 AM	31	3	0	33	1	0
8:25 AM	27	1	0	25	3	0
8:30 AM	37	2	0	34	2	0
8:35 AM	29	1	0	23	1	0
8:40 AM	44	0	0	36	1	0
8:45 AM	35	1	0	32	0	0
8:50 AM	26	0	0	29	1	0
8:55 AM	26	1	0	19	1	0
<b>Total</b>	<b>871</b>	<b>33</b>	<b>0</b>	<b>690</b>	<b>37</b>	<b>0</b>





Hov

Location: Capitol Expy & S Capitol Ave

Date: 11/1/2017

Time: 4:00 PM - 6:00 PM

Site Code: 14533326

Start Time	Northbound			Southbound		
	Passenger Cars	Heavy Vehicles	Buses	Passenger Cars	Heavy Vehicles	Buses
4:00 PM	9	0	0	50	0	1
4:05 PM	16	0	0	50	1	0
4:10 PM	9	0	0	56	0	0
4:15 PM	14	0	0	47	0	0
4:20 PM	22	0	0	56	0	0
4:25 PM	17	0	0	65	1	0
4:30 PM	13	0	0	61	1	0
4:35 PM	12	0	0	51	0	0
4:40 PM	11	0	0	58	0	0
4:45 PM	21	0	0	35	0	0
4:50 PM	14	3	0	47	0	0
4:55 PM	30	0	0	44	0	0
5:00 PM	18	0	0	50	0	1
5:05 PM	11	0	0	48	2	0
5:10 PM	22	0	0	55	0	0
5:15 PM	19	2	0	55	0	0
5:20 PM	12	1	1	59	1	0
5:25 PM	12	0	0	38	0	0
5:30 PM	16	0	0	55	0	1
5:35 PM	20	0	0	63	0	0
5:40 PM	16	0	0	57	1	0
5:45 PM	19	0	0	49	0	0
5:50 PM	21	0	0	50	0	0
5:55 PM	18	0	0	61	2	0
<b>Total</b>	<b>392</b>	<b>6</b>	<b>1</b>	<b>1260</b>	<b>9</b>	<b>3</b>

**Location:** Capitol Expy & Story Rd

**Date:** 11/1/2017

**Time:** 7:00 AM - 9:00 AM

**Site Code:** 14533303

Start Time	Northbound			Southbound		
	Passenger Cars	Heavy Vehicles	Buses	Passenger Cars	Heavy Vehicles	Buses
7:00 AM	60	1	0	4	2	0
7:05 AM	41	3	0	12	0	0
7:10 AM	37	2	0	14	1	0
7:15 AM	61	2	0	26	4	0
7:20 AM	51	1	0	19	1	0
7:25 AM	49	0	0	13	1	0
7:30 AM	41	0	0	9	1	0
7:35 AM	64	2	0	24	1	0
7:40 AM	54	2	0	29	2	0
7:45 AM	45	2	0	15	2	0
7:50 AM	45	0	0	26	1	0
7:55 AM	51	0	0	16	1	0
8:00 AM	47	2	0	21	1	0
8:05 AM	41	1	0	21	0	0
8:10 AM	34	3	0	18	2	0
8:15 AM	53	0	0	9	0	0
8:20 AM	50	4	0	17	1	0
8:25 AM	61	1	0	14	2	0
8:30 AM	45	5	0	22	2	0
8:35 AM	51	2	0	15	0	0
8:40 AM	56	2	0	22	0	0
8:45 AM	62	1	0	22	1	0
8:50 AM	43	1	0	21	1	0
8:55 AM	39	4	0	11	0	0
<b>Total</b>	<b>1181</b>	<b>41</b>	<b>0</b>	<b>420</b>	<b>27</b>	<b>0</b>



HOV

Location: Capitol Expy & Story Rd

Date: 11/1/2017

Time: 4:00 PM - 6:00 PM

Site Code: 14533325

Start Time	Northbound			Southbound		
	Passenger Cars	Heavy Vehicles	Buses	Passenger Cars	Heavy Vehicles	Buses
4:00 PM	23	0	0	0	0	0
4:05 PM	15	0	0	0	0	0
4:10 PM	20	1	0	0	0	0
4:15 PM	24	0	0	0	0	0
4:20 PM	27	0	0	0	0	0
4:25 PM	17	2	0	0	0	0
4:30 PM	18	0	0	0	0	0
4:35 PM	20	1	0	0	0	0
4:40 PM	19	2	0	0	0	0
4:45 PM	25	0	0	0	0	0
4:50 PM	30	3	0	0	0	0
4:55 PM	34	1	0	0	0	0
5:00 PM	16	0	0	0	0	0
5:05 PM	26	0	0	0	0	0
5:10 PM	29	0	0	0	0	0
5:15 PM	27	2	0	5	0	0
5:20 PM	15	0	0	4	0	0
5:25 PM	25	0	0	1	0	0
5:30 PM	24	1	0	4	1	0
5:35 PM	25	1	0	4	0	0
5:40 PM	35	0	0	2	0	0
5:45 PM	12	1	0	4	1	0
5:50 PM	20	0	0	15	0	0
5:55 PM	22	0	0	24	1	0
<b>Total</b>	<b>548</b>	<b>15</b>	<b>0</b>	<b>63</b>	<b>3</b>	<b>0</b>



HOV

Location: Capitol Expy & Ocala Ave

Date: 11/1/2017

Time: 7:00 AM - 9:00 AM

Site Code: 14533305

Start Time	Northbound			Southbound		
	Passenger Cars	Heavy Vehicles	Buses	Passenger Cars	Heavy Vehicles	Buses
7:00 AM	39	0	1	3	0	2
7:05 AM	42	2	1	1	0	0
7:10 AM	37	0	3	7	0	0
7:15 AM	32	0	1	6	0	4
7:20 AM	40	0	1	2	1	0
7:25 AM	51	0	0	5	0	1
7:30 AM	35	1	1	8	0	1
7:35 AM	24	0	1	12	0	0
7:40 AM	27	0	2	5	0	1
7:45 AM	41	0	1	10	0	1
7:50 AM	36	0	0	8	1	0
7:55 AM	22	0	2	16	0	1
8:00 AM	28	0	0	4	0	1
8:05 AM	29	3	2	0	0	0
8:10 AM	47	0	1	0	0	0
8:15 AM	37	0	0	0	0	0
8:20 AM	36	1	2	0	0	0
8:25 AM	55	0	0	0	0	0
8:30 AM	52	1	1	0	0	0
8:35 AM	50	2	1	0	0	0
8:40 AM	45	0	0	0	0	0
8:45 AM	44	0	1	0	0	0
8:50 AM	23	1	1	0	0	0
8:55 AM	31	1	2	0	0	0
<b>Total</b>	<b>903</b>	<b>12</b>	<b>25</b>	<b>87</b>	<b>2</b>	<b>12</b>



HOV

Location: Capitol Expy & Ocala Ave

Date: 11/1/2017

Time: 4:00 PM - 6:00 PM

Site Code: 14533306

Start Time	Northbound			Southbound		
	Passenger Cars	Heavy Vehicles	Buses	Passenger Cars	Heavy Vehicles	Buses
4:00 PM	13	0	0	15	0	0
4:05 PM	16	0	0	17	0	1
4:10 PM	21	0	1	19	0	0
4:15 PM	18	1	0	9	0	1
4:20 PM	16	1	0	18	1	0
4:25 PM	6	0	1	18	0	1
4:30 PM	15	0	0	15	0	0
4:35 PM	12	1	0	15	1	0
4:40 PM	16	0	1	23	1	0
4:45 PM	20	2	1	12	0	1
4:50 PM	23	1	0	22	0	0
4:55 PM	15	0	1	24	0	1
5:00 PM	13	0	0	15	0	1
5:05 PM	14	0	0	17	0	0
5:10 PM	14	0	0	11	1	2
5:15 PM	18	2	0	25	1	0
5:20 PM	22	0	0	21	1	1
5:25 PM	16	0	1	22	1	0
5:30 PM	15	0	0	15	0	1
5:35 PM	8	0	1	22	0	1
5:40 PM	16	0	0	21	0	0
5:45 PM	22	0	1	19	0	1
5:50 PM	15	0	0	24	0	0
5:55 PM	10	0	0	25	0	0
<b>Total</b>	<b>374</b>	<b>8</b>	<b>8</b>	<b>444</b>	<b>7</b>	<b>12</b>



HOV

Location: Capitol Expy & Cunningham Ave

Date: 11/1/2017

Time: 7:00 AM - 9:00 AM

Site Code: 14533307

Start Time	Northbound			Southbound		
	Passenger Cars	Heavy Vehicles	Buses	Passenger Cars	Heavy Vehicles	Buses
7:00 AM	37	0	2	13	0	2
7:05 AM	43	1	0	5	0	0
7:10 AM	42	0	2	8	0	0
7:15 AM	33	0	2	10	0	4
7:20 AM	37	0	0	4	0	0
7:25 AM	45	0	0	14	0	1
7:30 AM	40	0	2	15	0	0
7:35 AM	34	0	1	23	0	0
7:40 AM	33	1	0	19	0	1
7:45 AM	43	0	1	22	0	1
7:50 AM	33	0	0	16	1	0
7:55 AM	31	0	2	17	2	1
8:00 AM	27	0	0	15	0	1
8:05 AM	38	2	4	11	0	0
8:10 AM	52	0	1	4	0	1
8:15 AM	46	1	1	6	0	1
8:20 AM	56	0	1	11	0	0
8:25 AM	45	2	0	5	0	1
8:30 AM	54	1	1	10	1	0
8:35 AM	51	1	1	14	0	0
8:40 AM	39	0	1	9	0	0
8:45 AM	39	0	0	13	0	0
8:50 AM	24	1	0	17	0	2
8:55 AM	31	1	2	14	0	0
<b>Total</b>	<b>953</b>	<b>11</b>	<b>24</b>	<b>295</b>	<b>4</b>	<b>16</b>

**HOV**

**Location:** Capitol Expy & Cunningham Ave

**Date:** 11/1/2017

**Time:** 4:00 PM - 6:00 PM

**Site Code:** 14533308

Start Time	Northbound			Southbound		
	Passenger Cars	Heavy Vehicles	Buses	Passenger Cars	Heavy Vehicles	Buses
4:00 PM	22	1	0	28	0	0
4:05 PM	27	0	0	27	0	1
4:10 PM	29	1	1	31	1	0
4:15 PM	16	1	0	30	1	1
4:20 PM	21	0	2	33	1	0
4:25 PM	24	0	0	33	0	1
4:30 PM	17	0	0	29	1	0
4:35 PM	24	1	0	34	0	0
4:40 PM	20	0	0	34	0	0
4:45 PM	32	2	1	21	0	1
4:50 PM	28	0	0	37	0	0
4:55 PM	15	0	1	36	1	1
5:00 PM	25	0	0	32	0	1
5:05 PM	31	0	0	26	0	0
5:10 PM	16	2	0	20	1	1
5:15 PM	22	0	0	43	0	1
5:20 PM	29	0	1	30	0	0
5:25 PM	30	0	0	37	1	0
5:30 PM	22	1	0	21	0	1
5:35 PM	20	0	1	28	0	1
5:40 PM	27	1	0	39	0	0
5:45 PM	30	0	1	30	0	0
5:50 PM	19	0	0	39	0	1
5:55 PM	27	0	0	37	0	0
<b>Total</b>	<b>573</b>	<b>10</b>	<b>8</b>	<b>755</b>	<b>7</b>	<b>11</b>



HOV

Location: Capitol Expy & Tully Rd

Date: 11/1/2017

Time: 7:00 AM - 9:00 AM

Site Code: 14533302

Start Time	Northbound			Southbound		
	Passenger Cars	Heavy Vehicles	Buses	Passenger Cars	Heavy Vehicles	Buses
7:00 AM	20	1	0	7	1	0
7:05 AM	23	1	0	8	0	0
7:10 AM	30	2	0	6	0	0
7:15 AM	32	1	0	5	3	0
7:20 AM	28	1	0	8	1	0
7:25 AM	34	1	0	8	2	0
7:30 AM	30	1	0	5	0	0
7:35 AM	32	0	0	13	1	0
7:40 AM	27	0	0	18	1	0
7:45 AM	27	1	0	20	2	0
7:50 AM	35	0	0	10	0	0
7:55 AM	25	2	0	18	2	0
8:00 AM	19	3	0	15	1	0
8:05 AM	20	2	0	12	0	0
8:10 AM	41	1	0	6	0	0
8:15 AM	52	1	0	8	2	0
8:20 AM	50	0	0	14	0	0
8:25 AM	27	1	0	11	1	0
8:30 AM	35	1	0	4	0	0
8:35 AM	25	0	0	9	1	0
8:40 AM	26	1	0	13	0	0
8:45 AM	19	0	0	8	0	0
8:50 AM	21	1	0	12	2	0
8:55 AM	25	1	0	6	0	0
<b>Total</b>	<b>703</b>	<b>23</b>	<b>0</b>	<b>244</b>	<b>20</b>	<b>0</b>





HOV

Location: Capitol Expy & Tully Rd

Date: 11/1/2017

Time: 4:00 PM - 6:00 PM

Site Code: 14533324

Start Time	Northbound			Southbound		
	Passenger Cars	Heavy Vehicles	Buses	Passenger Cars	Heavy Vehicles	Buses
4:00 PM	13	1	0	14	0	0
4:05 PM	16	0	0	16	1	0
4:10 PM	26	1	0	12	0	0
4:15 PM	14	0	0	21	0	0
4:20 PM	15	3	0	19	2	0
4:25 PM	14	0	0	15	2	0
4:30 PM	10	1	0	19	0	0
4:35 PM	15	0	0	25	0	0
4:40 PM	9	1	0	23	0	0
4:45 PM	19	2	0	12	1	0
4:50 PM	19	0	0	23	0	0
4:55 PM	15	1	0	15	1	0
5:00 PM	20	0	0	22	0	0
5:05 PM	27	0	0	24	0	0
5:10 PM	26	2	0	13	1	0
5:15 PM	20	0	0	22	1	0
5:20 PM	14	1	0	18	1	0
5:25 PM	22	0	0	26	0	0
5:30 PM	34	0	0	16	2	0
5:35 PM	25	1	0	22	1	0
5:40 PM	18	1	0	28	0	0
5:45 PM	14	1	0	36	1	0
5:50 PM	21	0	0	18	1	0
5:55 PM	27	0	0	25	0	0
<b>Total</b>	<b>453</b>	<b>16</b>	<b>0</b>	<b>484</b>	<b>15</b>	<b>0</b>

## VTA Eastridge Parking Counts

Source: VTA Operations (Michael Catangay)

Updated: 12/20/17

Year	Month	Count
2011	April	23
2011	January	21
2011	October	33
2012	February	27
2012	October	36
2013	February	32
2014	December	84
2015	April	113
2016	December	65
2016	January	52
2016	May	102
2017	October	148



Location: Capitol Expy -- Ocala Ave - Pedestrians  
 Start Date: 11/1/2017  
 Start Time: 2:00:00 PM  
 Site Code: 14533329

Start Time	Capitol Expy North Leg		Ocala Ave East Leg		Capitol Expy South Leg		Ocala Ave West Leg	
	Adult	School Age	Adult	School Age	Adult	School Age	Adult	School Age
02:00 PM	0	0	0	0	0	0	1	0
02:05 PM	3	1	0	0	0	0	0	0
02:10 PM	0	0	0	0	0	0	0	0
02:15 PM	0	0	0	0	0	1	1	0
02:20 PM	0	0	1	0	0	0	1	0
02:25 PM	0	0	0	0	0	0	0	0
02:30 PM	0	0	0	0	0	0	0	1
02:35 PM	0	0	1	0	0	24	1	0
02:40 PM	0	0	0	0	0	0	1	0
02:45 PM	1	1	0	0	0	1	0	0
02:50 PM	0	16	0	0	0	0	0	0
02:55 PM	0	38	0	0	0	2	0	0
03:00 PM	0	10	0	0	0	0	0	0
03:05 PM	0	0	0	0	0	0	0	0
03:10 PM	0	2	0	0	0	0	0	0
03:15 PM	0	1	0	0	0	0	0	0
03:20 PM	0	2	0	0	0	0	0	0
03:25 PM	0	1	0	0	0	1	0	0
03:30 PM	0	0	0	0	0	0	0	0
03:35 PM	0	4	0	0	0	0	0	1
03:40 PM	0	3	1	0	0	0	0	0
03:45 PM	0	10	1	0	0	1	0	0
03:50 PM	0	0	0	0	0	0	0	1
03:55 PM	0	0	1	0	0	0	0	3
<b>Total</b>	<b>4</b>	<b>89</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>30</b>	<b>5</b>	<b>6</b>



Location: Capitol Expy -- Ocala Ave - Adult Bikes  
 Start Date: 11/1/2017  
 Start Time: 2:00:00 PM  
 Site Code: 14533329

Start Time	Capitol Expy Southbound			Ocala Ave Westbound			Capitol Expy Northbound			Ocala Ave Eastbound		
	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left
02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
02:05 PM	0	0	0	0	0	0	0	0	1	0	0	0
02:10 PM	0	0	0	0	0	0	0	0	0	0	0	0
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
02:20 PM	0	0	0	0	0	0	1	0	0	0	0	0
02:25 PM	0	0	0	0	0	0	0	0	0	0	0	0
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
02:35 PM	0	1	0	0	0	0	0	0	0	0	0	0
02:40 PM	0	0	0	0	0	1	0	0	0	0	0	0
02:45 PM	0	1	1	0	2	0	0	0	0	0	0	0
02:50 PM	0	0	0	0	0	0	0	0	0	0	0	0
02:55 PM	0	0	0	0	0	0	0	0	0	0	0	0
03:00 PM	0	0	0	0	1	0	0	0	0	0	0	0
03:05 PM	0	0	0	0	0	0	0	0	0	0	0	0
03:10 PM	0	0	0	0	0	0	0	0	0	0	0	0
03:15 PM	0	0	0	0	0	0	0	1	0	0	0	0
03:20 PM	0	0	0	0	0	0	0	0	0	0	0	0
03:25 PM	0	0	0	0	0	0	0	0	0	1	1	0
03:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
03:35 PM	0	0	0	0	0	0	0	0	0	0	0	0
03:40 PM	0	2	0	0	0	0	0	0	0	0	0	0
03:45 PM	0	1	0	0	0	0	0	0	0	0	0	0
03:50 PM	0	0	0	0	0	0	0	0	0	0	0	0
03:55 PM	0	0	0	0	1	0	0	1	0	0	0	0
<b>Total</b>	<b>0</b>	<b>5</b>	<b>1</b>	<b>0</b>	<b>4</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>0</b>



Location: Capitol Expy -- Ocala Ave - School Age Bikes  
 Start Date: 11/1/2017  
 Start Time: 2:00:00 PM  
 Site Code: 14533329

Start Time	Capitol Expy Southbound			Ocala Ave Westbound			Capitol Expy Northbound			Ocala Ave Eastbound		
	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left
02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
02:05 PM	0	0	0	0	0	0	0	0	0	0	0	0
02:10 PM	0	0	0	0	0	0	0	0	0	0	0	0
02:15 PM	0	0	0	0	0	0	0	1	0	0	0	0
02:20 PM	0	0	0	0	0	0	0	0	0	0	0	0
02:25 PM	0	0	0	0	0	0	0	0	0	0	0	0
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
02:35 PM	0	0	0	0	0	0	0	0	0	0	0	0
02:40 PM	0	0	0	0	0	0	0	0	0	0	0	0
02:45 PM	0	0	0	0	0	0	0	0	0	0	0	0
02:50 PM	0	0	0	0	1	0	0	0	0	0	0	0
02:55 PM	0	0	0	0	3	0	0	0	0	0	0	0
03:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
03:05 PM	0	0	0	0	0	0	0	0	0	0	0	0
03:10 PM	0	0	0	0	0	0	0	1	0	0	0	0
03:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
03:20 PM	0	0	0	0	0	0	0	0	0	0	0	0
03:25 PM	0	0	0	0	0	0	0	0	0	0	0	0
03:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
03:35 PM	0	0	0	0	0	0	0	0	0	0	0	0
03:40 PM	0	0	0	0	0	0	0	0	0	0	0	0
03:45 PM	0	0	0	0	0	0	0	0	0	0	0	0
03:50 PM	0	0	0	0	0	0	0	0	0	0	0	0
03:55 PM	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>



Quality Counts  
TRANSPARENCY OF DATA  
 IMPROVING OUR WORLD

When the queue extends past the camera range, the number of visible queued cars are listed, followed by a plus sign.

Site Code: 14533320

Date: 11/1/2017

Location: Capitol Expy & Ocala Ave (EBL)

Time: 7am-9am

Time Queue Releases	Length of queue (In cars)	Notes
7:00:55 AM	1	
7:03:43 AM	8	
7:06:33 AM	6	
7:09:28 AM	2	
7:12:13 AM	3	
7:15:03 AM	2	
7:17:53 AM	2	
7:20:44 AM	1	
7:23:33 AM	3	
7:26:24 AM	1	
7:29:14 AM	1	
7:32:08 AM	0	
7:34:58 AM	7	
7:37:45 AM	4	
7:40:37 AM	4	
7:43:26 AM	4	
7:46:16 AM	5	
7:49:06 AM	5	
7:51:57 AM	4	
7:54:45 AM	3	
7:57:35 AM	3	
8:00:27 AM	8	
8:03:17 AM	4	
8:06:07 AM	6	
8:08:56 AM	8	
8:11:48 AM	9	
8:14:38 AM	2	
8:17:25 AM	3	
8:20:39 AM	0	
8:23:06 AM	6	
8:25:55 AM	4	
8:28:46 AM	1	
8:31:35 AM	4	
8:34:26 AM	2	
8:37:18 AM	3	
8:40:20 AM	0	
8:42:55 AM	6	
8:46:13 AM	0	
8:48:35 AM	5	
8:51:26 AM	4	
8:54:15 AM	5	
8:57:05 AM	5	
8:59:53 AM	2	



Quality Counts

When the queue extends past the camera range, the number of visible queued cars are listed, followed by a plus sign.

Site Code: 14533321  
Date: 11/1/2017  
Location: Capitol Expy & Ocala Ave (EBL)  
Time: 2pm-4pm

Time Queue Releases	Length of queue (in cars)	Notes
2:01:21 PM	1	
2:03:55 PM	0	
2:06:21 PM	3	
2:08:51 PM	1	
2:11:22 PM	1	
2:13:51 PM	1	
2:16:21 PM	3	
2:18:51 PM	5	
2:21:21 PM	4	
2:23:51 PM	4	
2:26:21 PM	5	
2:28:50 PM	2	
2:31:21 PM	7	
2:36:21 PM	2	
2:38:52 PM	3	
2:41:20 PM	2	
2:43:55 PM	0	
2:46:24 PM	0	
2:49:05 PM	6	
2:51:44 PM	5	
2:54:26 PM	3	
2:57:05 PM	2	
2:59:45 PM	4	
3:02:25 PM	2	
3:05:05 PM	2	
3:07:45 PM	5	
3:10:24 PM	6	
3:13:05 PM	4	
3:15:45 PM	2	
3:18:25 PM	4	
3:21:04 PM	8	
3:23:44 PM	7	
3:26:24 PM	6	
3:29:05 PM	6	
3:31:48 PM	3	
3:34:24 PM	5	
3:37:05 PM	5	
3:39:47 PM	6	
3:42:25 PM	4	
3:45:05 PM	1	
3:47:46 PM	7	
3:50:28 PM	6	
3:53:04 PM	5	
3:55:45 PM	6	
3:58:28 PM	6	



Quality Counts

When the queue extends past the camera range, the number of visible queued cars are listed, followed by a plus sign.

Site Code: 14533322  
Date: 11/17/2017  
Location: Capitol Expy & Ocala Ave (EBL)  
Time: 4pm-6pm

Time Queue Releases	Length of queue (in cars)	Notes
4:01:09 PM	0	
4:03:45 PM	1	
4:06:25 PM	7	
4:09:04 PM	6	
4:11:46 PM	7	
4:14:24 PM	8	
4:17:05 PM	4	
4:19:57 PM	5	
4:22:25 PM	2	
4:25:05 PM	1	
4:27:44 PM	3	
4:30:25 PM	4	
4:33:04 PM	7	
4:35:44 PM	3	
4:39:00 PM	0	
4:41:06 PM	4	
4:43:47 PM	6	
4:46:23 PM	7	
4:49:06 PM	3	
4:51:46 PM	4	
4:54:26 PM	6	
4:57:07 PM	2	
4:59:47 PM	2	
5:02:25 PM	3	
5:05:05 PM	7	
5:07:46 PM	2	
5:10:26 PM	3	
5:13:08 PM	4	
5:16:00 PM	0	
5:18:28 PM	5	
5:21:04 PM	1	
5:23:54 PM	7	
5:26:44 PM	5	
5:29:34 PM	7	
5:32:25 PM	5	
5:35:14 PM	6	
5:38:07 PM	4	
5:40:54 PM	2	
5:43:44 PM	4	
5:46:35 PM	2	
5:49:00 PM	0	
5:52:29 PM	4	
5:55:09 PM	3	
5:57:51 PM	3	





When the queue extends past the camera range, the number of visible queued cars are listed, followed by a plus sign.

Site Code: 14533317  
 Date: 11/1/2017  
 Location: Capitol Expy & Ocala Ave (NBL)  
 Time: 7am-9am

Time Queue Releases	Length of queue (In cars)	Notes
7:01:20 AM	2	
7:04:09 AM	6	
7:06:58 AM	8	
7:09:48 AM	1	
7:12:39 AM	7	
7:15:28 AM	9	
7:18:19 AM	5	
7:21:08 AM	5	
7:23:59 AM	8	
7:26:49 AM	9	
7:29:39 AM	11	
7:32:29 AM	6	
7:35:19 AM	11	
7:38:10 AM	11	
7:41:00 AM	13	
7:43:50 AM	10	
7:46:39 AM	11	
7:49:30 AM	13	
7:52:19 AM	19	
7:55:09 AM	9	
7:57:59 AM	5	
8:00:49 AM	18	
8:03:39 AM	19	
8:06:30 AM	17	
8:09:19 AM	14	
8:12:10 AM	9	
8:14:58 AM	12	
8:17:48 AM	19	
8:20:40 AM	13	
8:23:29 AM	13	
8:26:20 AM	13	
8:29:10 AM	16	
8:31:58 AM	9	
8:34:49 AM	1	
8:37:39 AM	17	
8:40:27 AM	15	
8:43:19 AM	14	
8:46:09 AM	5	
8:48:59 AM	8	
8:51:49 AM	3	
8:54:38 AM	7	
8:57:28 AM	9	



Quality Counts

When the queue extends past the camera range, the number of visible queued cars are listed, followed by a

Site Code: 14533318  
Date: 11/17/2017  
Location: Capitol Expy & Ocala Ave (NBL)  
Time: 2pm-4pm

Time Queue Releases	Length of queue (In cars)	Notes
2:01:51 PM	5	
2:04:21 PM	5	
2:06:51 PM	5	
2:09:21 PM	7	
2:11:51 PM	5	
2:14:21 PM	7	
2:16:51 PM	4	
2:19:21 PM	5	
2:21:51 PM	8	
2:24:21 PM	3	
2:26:51 PM	4	
2:29:21 PM	4	
2:31:51 PM	4	
2:34:21 PM	14	
2:36:51 PM	4	
2:39:21 PM	5	
2:41:51 PM	5	
2:44:21 PM	5	
2:46:51 PM	8	
2:48:21 PM	3	
2:51:10 PM	8	
2:53:50 PM	11	
2:56:34 PM	15	
2:59:08 PM	15	
3:01:49 PM	17	
3:04:28 PM	18	
3:07:06 PM	15	
3:09:50 PM	6	
3:12:30 PM	7	
3:15:12 PM	13	
3:17:49 PM	17	
3:20:33 PM	13	
3:23:11 PM	10	
3:25:50 PM	6	
3:28:36 PM	10	
3:31:11 PM	9	
3:33:51 PM	12	
3:36:30 PM	9	
3:39:10 PM	8	
3:41:51 PM	8	
3:44:30 PM	10	
3:47:17 PM	11	
3:49:54 PM	9	
3:52:31 PM	9	Bus partially blocking view
3:54:45 PM	4	
3:57:57 PM	11	



Quality Counts

When the queue extends past the camera range, the number of visible queued cars are listed, followed by a plus sign.

Site Code: 14533319  
Date: 11/1/2017  
Location: Capitol Expy & Ocala Ave (NBL)  
Time: 4pm-6pm

Time Queue Releases	Length of queue (In cars)	Notes
4:00:11 PM	10	
4:03:11 PM	5	
4:05:21 PM	6	
4:08:31 PM	9	
4:11:14 PM	8	
4:13:26 PM	12	
4:16:28 PM	13	
4:18:47 PM	10	
4:21:50 PM	9	
4:24:27 PM	17	
4:27:11 PM	12	
4:29:39 PM	6	
4:32:36 PM	14	
4:34:41 PM	12	
4:37:59 PM	11	
4:40:09 PM	6	
4:43:12 PM	6	
4:45:33 PM	8	
4:48:13 PM	9	
4:51:19 PM	13	
4:53:28 PM	12	
4:56:13 PM	11	
4:59:11 PM	7	
5:01:28 PM	9	
5:04:37 PM	8	
5:06:51 PM	9	
5:09:46 PM	8	
5:12:29 PM	15	
5:14:56 PM	11	
5:17:56 PM	7	
5:20:15 PM	4	
5:22:56 PM	6	
5:26:02 PM	15	
5:28:29 PM	11	
5:31:24 PM	9	
5:34:11 PM	14	
5:37:08 PM	13	
5:40:11 PM	9	
5:42:42 PM	10	
5:45:49 PM	12	
5:48:48 PM	10	
5:51:53 PM	13	
5:54:34 PM	9	
5:56:56 PM	7	
5:59:57 PM	17	



When the queue extends past the camera range, the number of visible queued cars are listed, followed by a plus sign.

Site Code: 14533311  
 Date: 11/1/2017  
 Location: Capitol Expy & Ocala Ave (SBL)  
 Time: 7am-9am

Time Queue Releases	Length of queue (In cars)	Notes
7:02:37 AM	4	
7:05:07 AM	3	
7:08:26 AM	17	
7:11:16 AM	17	
7:14:08 AM	11	Semi truck partially blocking view
7:16:51 AM	11	
7:19:40 AM	12	
7:22:34 AM	15	
7:25:22 AM	14	
7:28:08 AM	21	
7:31:10 AM	11	
7:33:52 AM	14	
7:36:48 AM	12	
7:39:34 AM	21	
7:42:24 AM	21	
7:45:20 AM	21	
7:48:06 AM	18	
7:51:00 AM	21	
7:53:48 AM	24	
7:56:37 AM	24	
7:59:28 AM	24	
8:02:18 AM	25	
8:05:04 AM	26	
8:07:59 AM	24	
8:10:47 AM	28	
8:13:38 AM	22	
8:16:22 AM	21	
8:19:10 AM	16	
8:22:05 AM	12	
8:24:59 AM	6	
8:27:49 AM	12	
8:30:28 AM	13	
8:33:28 AM	11	
8:36:12 AM	4	
8:38:51 AM	9	
8:41:34 AM	5	
8:44:47 AM	4	
8:47:13 AM	5	
8:50:06 AM	4	
8:53:14 AM	7	
8:55:49 AM	6	
8:58:57 AM	6	



When the queue extends past the camera range, the number of visible queued cars are listed, followed by a plus sign.

**Site Code:** 14533312  
**Date:** 11/1/2017  
**Location:** Capitol Expy & Ocala Ave (SBL)  
**Time:** 2pm-4pm

Time Queue Releases	Length of queue (In cars)	Notes
2:00:42 PM	10	
2:02:38 PM	6	
2:05:03 PM	8	
2:07:38 PM	7	
2:10:32 PM	13	
2:12:40 PM	10	
2:15:18 PM	11	
2:17:38 PM	13	
2:20:40 PM	15	
2:22:42 PM	8	
2:25:11 PM	15	
2:27:46 PM	15	
2:30:14 PM	14	
2:32:47 PM	14	
2:35:08 PM	18	
2:38:11 PM	16	
2:40:41 PM	23	
2:43:04 PM	14	
2:45:13 PM	11	
2:48:03 PM	18	
2:49:17 PM	10	
2:50:50 PM	17	
2:51:57 PM	5	
2:53:31 PM	10	
2:54:39 PM	13	
2:56:15 PM	15	
2:57:16 PM	14	
2:58:48 PM	5	
2:59:56 PM	5	
3:01:30 PM	6	
3:02:38 PM	3	
3:04:08 PM	12	
3:05:18 PM	8	
3:06:47 PM	13	
3:07:55 PM	13	
3:09:30 PM	13	
3:10:35 PM	5	
3:12:10 PM	8	
3:13:16 PM	9	
3:14:50 PM	8	
3:17:28 PM	13	
3:18:35 PM	15	
3:20:09 PM	20	
3:21:15 PM	11	
3:22:49 PM	8	
3:23:56 PM	7	
3:25:30 PM	12	
3:26:36 PM	6	
3:28:16 PM	10	
3:29:17 PM	3	
3:30:50 PM	7	
3:31:55 PM	11	
3:33:31 PM	11	
3:34:36 PM	10	
3:36:11 PM	7	
3:37:15 PM	8	
3:38:50 PM	12	
3:39:56 PM	5	
3:41:29 PM	9	
3:42:37 PM	6	
3:44:11 PM	7	
3:45:16 PM	2	
3:46:56 PM	5	
3:47:59 PM	5	
3:49:28 PM	12	
3:50:36 PM	6	
3:52:11 PM	11	
3:53:16 PM	8	
3:54:24 PM	9	
3:55:57 PM	3	
3:57:30 PM	11	
3:58:47 PM	7	
3:59:51 PM	13	



When the queue extends past the camera range, the number of visible queued cars are listed, followed by a plus sign.

Site Code: 14533313  
 Date: 11/1/2017  
 Location: Capitol Expy & Ocala Ave (SBL)  
 Time: 4pm-6pm

Time Queue Releases	Length of queue (In cars)	Notes
4:01:16 PM	10	
4:02:50 PM	14	
4:03:57 PM	5	
4:05:02 PM	13	
4:06:36 PM	6	
4:08:11 PM	12	
4:09:16 PM	10	
4:10:56 PM	13	
4:12:00 PM	4	
4:13:07 PM	13	
4:14:37 PM	5	
4:16:08 PM	12	
4:17:17 PM	6	
4:18:29 PM	9	
4:19:57 PM	10	
4:21:31 PM	10	
4:22:38 PM	1	
4:24:08 PM	10	
4:25:17 PM	4	
4:26:52 PM	12	
4:27:57 PM	6	
4:29:21 PM	13	
4:30:38 PM	4	
4:32:17 PM	11	
4:33:18 PM	6	
4:34:25 PM	9	
4:35:58 PM	11	
4:37:31 PM	10	
4:38:40 PM	4	
4:39:50 PM	6	
4:41:19 PM	5	
4:42:54 PM	11	
4:43:57 PM	5	
4:45:12 PM	8	
4:46:40 PM	5	
4:47:54 PM	11	
4:49:19 PM	10	
4:51:00 PM	11	
4:52:01 PM	2	
4:53:09 PM	8	
4:54:40 PM	9	
4:55:53 PM	6	
4:57:19 PM	9	
4:58:51 PM	14	
4:59:59 PM	8	
5:01:17 PM	10	Bus partially blocking view
5:02:39 PM	7	
5:03:57 PM	10	
5:05:19 PM	3	
5:06:31 PM	6	
5:07:58 PM	9	
5:09:28 PM	13	
5:10:39 PM	6	
5:12:09 PM	11	
5:13:20 PM	1	
5:14:38 PM	15	
5:15:59 PM	5	
5:17:38 PM	14	
5:18:44 PM	11	
5:19:57 PM	13	
5:21:20 PM	14	
5:22:37 PM	9	
5:24:04 PM	6	
5:25:43 PM	12	
5:26:54 PM	3	
5:28:11 PM	9	
5:29:43 PM	9	
5:31:07 PM	12	
5:32:34 PM	15	
5:33:54 PM	8	
5:35:24 PM	10	
5:36:49 PM	10	
5:38:12 PM	4	
5:39:52 PM	14	
5:41:04 PM	4	
5:42:22 PM	16	
5:43:49 PM	5	
5:45:27 PM	9	
5:46:40 PM	8	
5:48:29 PM	10	
5:49:35 PM	5	
5:51:31 PM	15	
5:52:37 PM	8	
5:54:12 PM	10	
5:55:17 PM	8	
5:56:32 PM	17	
5:58:00 PM	5	
5:59:33 PM	13	



Quality Counts

When the queue extends past the camera range, the number of visible queued cars are listed, followed by a plus sign.

Site Code: 14533314

Date: 11/1/2017

Location: Capitol Expy & Ocala Ave (WBL)

Time: 7am-9am

Time Queue Releases	Length of queue (in cars)	Notes
7:01:18 AM	8	
7:04:07 AM	6	
7:06:59 AM	6	
7:09:54 AM	5	
7:12:39 AM	8	
7:15:28 AM	6	
7:18:16 AM	4	
7:21:10 AM	7	
7:23:58 AM	3	
7:26:49 AM	7	
7:29:40 AM	7	
7:32:26 AM	6	
7:35:17 AM	6	
7:38:08 AM	5	
7:40:59 AM	9	
7:43:49 AM	9	
7:46:39 AM	8	
7:49:28 AM	7	
7:52:19 AM	6	
7:55:09 AM	10	
7:57:59 AM	9	
8:00:51 AM	6	
8:03:44 AM	0	
8:06:30 AM	7	
8:09:18 AM	9	
8:12:09 AM	2	
8:15:02 AM	5	
8:17:49 AM	6	
8:20:39 AM	5	
8:23:28 AM	8	
8:26:19 AM	4	
8:29:10 AM	9	
8:31:57 AM	7	
8:34:46 AM	9	
8:37:39 AM	8	
8:40:27 AM	9	
8:43:18 AM	4	
8:46:09 AM	7	
8:48:58 AM	9	
8:51:48 AM	6	
8:54:37 AM	5	
8:57:28 AM	9	



Quality Counts

When the queue extends past the camera range, the number of visible queued cars are listed, followed by a plus sign.

Site Code: 14533315

Date: 11/1/2017

Location: Capitol Expy & Ocala Ave (WBL)

Time: 2pm-4pm

Time Queue Releases	Length of queue (In cars)	Notes
2:07:45 PM	4	
2:04:13 PM	3	
2:06:43 PM	2	
2:09:15 PM	9	
2:11:43 PM	3	
2:14:14 PM	10	
2:16:43 PM	7	
2:19:19 PM	7	
2:21:44 PM	9	
2:24:14 PM	5	
2:29:13 PM	7	
2:31:44 PM	4	
2:34:14 PM	4	
2:36:43 PM	6	
2:39:14 PM	6	
2:41:43 PM	6	
2:44:14 PM	4	
2:46:45 PM	5	
2:49:30 PM	1	
2:52:08 PM	3	
2:54:49 PM	7	
2:57:32 PM	7	
3:00:09 PM	5	
3:02:47 PM	1	
3:05:28 PM	8	
3:08:08 PM	6	
3:10:47 PM	9	
3:13:28 PM	5	
3:16:07 PM	7	
3:18:48 PM	2	
3:21:29 PM	4	
3:24:10 PM	7	
3:26:50 PM	9	
3:29:28 PM	7	
3:32:10 PM	10	
3:34:48 PM	10	
3:37:28 PM	9	
3:40:08 PM	10	
3:42:48 PM	9	
3:45:39 PM	9	
3:48:12 PM	9	
3:50:50 PM	7	
3:53:30 PM	8	
3:56:10 PM	10	
3:58:51 PM	6	





Quality Counts  
TRANSPARENCY DATA  
 COUNTY OF HAWAII, HAWAII

When the queue extends past the camera range, the number of visible queued cars are listed, followed by a plus sign.

Site Code: 14533316  
 Date: 11/1/2017  
 Location: Capitol Expy & Ocala Ave (WBL)  
 Time: 4pm-6pm

Time Queue Releases	Length of queue (In cars)	Notes
4:01:29 PM	5	
4:04:07 PM	4	
4:06:48 PM	6	
4:09:27 PM	6	
4:12:10 PM	8	
4:14:48 PM	9	
4:17:30 PM	10	
4:20:21 PM	10	
4:22:48 PM	5	
4:25:31 PM	8	
4:28:08 PM	7	
4:30:48 PM	7	
4:33:28 PM	3	
4:36:10 PM	6	
4:38:55 PM	6	
4:41:30 PM	5	
4:44:09 PM	9	
4:46:50 PM	7	
4:49:30 PM	8	
4:52:09 PM	9	
4:54:51 PM	6	
4:57:30 PM	9	
5:00:10 PM	9	
5:02:49 PM	8	
5:05:32 PM	10	
5:08:08 PM	11	
5:10:49 PM	10	
5:13:30 PM	10	
5:16:10 PM	9	
5:18:52 PM	10	
5:21:32 PM	10	
5:24:19 PM	9	
5:27:07 PM	8	
5:29:57 PM	7	
5:32:48 PM	2	
5:35:37 PM	8	
5:38:28 PM	10	
5:41:20 PM	5	
5:44:10 PM	10	
5:46:58 PM	6	
5:50:09 PM	4	
5:52:52 PM	8	
5:55:34 PM	7	
5:58:18 PM	4	



Location: Capitol Expy -- Ocala Ave - School Buses

Start Date: 11/1/2017

Start Time: 7:00:00 AM

Site Code: 14533305

Start Time	Capitol Expy Southbound			Ocala Ave Westbound			Capitol Expy Northbound			Ocala Ave Eastbound					
	Right	Thru	Left	Right	Thru	Left	U-Turns	Right	Thru	Left	U-Turns	Right	Thru	Left	U-Turns
07:00 AM	0	1	0	0	1	0	0	0	1	0	0	0	0	0	0
07:05 AM	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
07:10 AM	0	1	1	0	1	0	0	0	2	0	0	0	0	0	0
07:15 AM	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0
07:20 AM	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0
07:25 AM	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
07:35 AM	2	1	0	0	0	0	0	0	0	0	0	0	1	0	0
07:40 AM	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0
07:45 AM	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
07:50 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
07:55 AM	0	0	2	0	0	0	0	0	1	0	0	0	1	0	0
08:00 AM	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0
08:05 AM	0	0	0	0	1	0	0	1	1	0	0	1	0	0	0
08:10 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
08:15 AM	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0
08:20 AM	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
08:25 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0
08:35 AM	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
08:40 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:50 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
08:55 AM	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0
<b>Total</b>	<b>3</b>	<b>9</b>	<b>4</b>	<b>7</b>	<b>9</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>11</b>	<b>2</b>	<b>0</b>	<b>1</b>	<b>3</b>	<b>0</b>	<b>0</b>



Location: Capitol Expy -- Ocala Ave School Buses

Start Date: 11/1/2017

Start Time: 2:00:00 PM

Site Code: 14533329

Start Time	Capitol Expy Southbound			Ocala Ave Westbound			Capitol Expy Northbound			Ocala Ave Eastbound			
	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	U-Turns
02:00 PM	1	0	0	0	0	0	0	0	0	0	0	0	0
02:05 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
02:10 PM	0	0	0	0	0	0	0	1	0	0	1	0	0
02:15 PM	0	0	1	0	0	0	0	0	0	0	0	0	0
02:20 PM	0	0	1	0	0	0	1	0	0	0	0	0	0
02:25 PM	0	1	0	0	0	0	0	0	0	0	0	0	0
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
02:35 PM	0	0	0	0	0	0	0	0	2	0	0	1	0
02:40 PM	1	0	0	0	0	0	0	0	0	0	0	0	0
02:45 PM	1	0	0	0	2	0	0	0	0	0	0	0	0
02:50 PM	0	2	0	0	0	0	0	1	0	0	0	0	0
02:55 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00 PM	2	1	0	0	0	0	0	0	0	0	0	0	0
03:05 PM	0	1	0	0	0	0	0	0	0	0	0	0	0
03:10 PM	0	0	0	0	0	0	0	2	0	0	0	0	0
03:15 PM	0	1	0	0	0	0	0	0	0	0	1	0	0
03:20 PM	0	1	1	0	0	0	0	0	0	0	0	0	0
03:25 PM	0	2	0	0	0	0	0	0	0	0	0	0	0
03:30 PM	0	2	0	0	0	0	0	0	2	0	0	0	0
03:35 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
03:40 PM	0	0	0	0	0	0	0	0	0	0	0	1	0
03:45 PM	0	1	0	0	0	0	0	0	0	0	0	0	0
03:50 PM	0	0	0	0	0	0	1	0	0	0	0	0	0
03:55 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>5</b>	<b>12</b>	<b>3</b>	<b>0</b>	<b>4</b>	<b>3</b>	<b>0</b>	<b>9</b>	<b>3</b>	<b>0</b>	<b>2</b>	<b>3</b>	<b>0</b>



Location: Capitol Expy -- Ocala Ave  
 Start Date: 11/1/2017  
 Start Time: 4:00:00 PM  
 Site Code: 14533306

Start Time	Capitol Expy Southbound			Ocala Ave Westbound			Capitol Expy Northbound			Ocala Ave Eastbound					
	Right	Thru	Left	Right	Thru	Left	U-Turns	Right	Thru	Left	U-Turns	Right	Thru	Left	U-Turns
04:00 PM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
04:05 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:10 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
04:20 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:25 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:35 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:40 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:50 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:55 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:05 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:10 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:20 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:25 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:35 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:40 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:50 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:55 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>



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# Capital Expwy Section Summaries

Prepared for:  
 Kittelson & Associates, Inc.  
 155 Grand Avenue, Suite 900  
 Oakland, CA

## Route 1A: Northbound Capital Expressway from Nieman Blvd to I-680

Section	START			END			Length
	Route	Node	Type	Route	Node	Type	
1	Capitol Expwy	Nieman Blvd	Intersection	Capitol Expwy	Quimby Rd	Intersection	0.53 Miles
2	Capitol Expwy	Quimby Rd	Intersection	Capitol Expwy	Tully Rd	Intersection	0.56 Miles
3	Capitol Expwy	Tully Rd	Intersection	Capitol Expwy	Cunningham Ave	Intersection	0.53 Miles
4	Capitol Expwy	Cunningham Ave	Intersection	Capitol Expwy	Ocala Ave	Intersection	0.23 Miles
5	Capitol Expwy	Ocala Ave	Intersection	Capitol Expwy	Story Rd	Intersection	0.81 Miles
6	Capitol Expwy	Story Rd	Intersection	Capitol Expwy	Capitol Ave	Intersection	0.37 Miles
7	Capitol Expwy	Capitol Ave	Intersection	Capitol Expwy	I-680 NB Ramp	Intersection	0.34 Miles

Length of Study Route: 3.39 Miles

## Route 1B: Southbound Capital Expressway from I-680 to Nieman Blvd

Section	START			END			Length
	Route	Node	Type	Route	Node	Type	
1	Capitol Expwy	I-680 NB Ramp	Intersection	Capitol Expwy	Capitol Ave	Intersection	0.28 Miles
2	Capitol Expwy	Capitol Ave	Intersection	Capitol Expwy	Story Rd	Intersection	0.37 Miles
3	Capitol Expwy	Story Rd	Intersection	Capitol Expwy	Ocala Ave	Intersection	0.82 Miles
4	Capitol Expwy	Ocala Ave	Intersection	Capitol Expwy	Cunningham Ave	Intersection	0.25 Miles
5	Capitol Expwy	Cunningham Ave	Intersection	Capitol Expwy	Tully Rd	Intersection	0.50 Miles
6	Capitol Expwy	Tully Rd	Intersection	Capitol Expwy	Quimby Rd	Intersection	0.58 Miles
7	Capitol Expwy	Quimby Rd	Intersection	Capitol Expwy	Nieman Blvd	Intersection	0.54 Miles

Length of Study Route: 3.34 Miles



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# Travel Time by Section

Prepared For:

**Kittelson & Associates, Inc.**  
 155 Grand Avenue, Suite 900  
 Oakland, CA

**ROUTE Northbound Capitol Expressway - Nieman to I-680**

**COLLECTION DATE** Wednesday, October 25, 2017

**VEHICLE TYPE** HOV

**PEAK PERIOD** 7:00 AM - 9:00 AM

**WEATHER** Clear

Section	RUNS								Average
	1 7:00 AM	2 7:08 AM	3 7:30 AM	4	5 8:12 AM	6 8:23 AM	7 8:46 AM	8 8:58 AM	
1	57	51	48	-	53	62	53	61	55
2	76	134	149	-	153	153	111	101	125
3	43	79	43	-	44	56	45	43	50
4	21	48	31	-	39	148	22	39	50
5	215	239	716	-	388	259	341	92	321
6	65	368	190	-	176	85	104	57	149
7	62	194	39	-	64	103	49	102	88
<b>Total Time</b>	<b>08:59</b>	<b>18:33</b>	<b>20:16</b>	<b>-</b>	<b>15:17</b>	<b>14:26</b>	<b>12:05</b>	<b>08:15</b>	<b>13:59</b>

**Notes:** Run #4 missed due to a miscommunication with the GP driver.



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# Average Speed by Section

Prepared For:

Kittelson & Associates, Inc.  
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 Oakland, CA

ROUTE Northbound Capitol Expressway - Nieman to I-680

COLLECTION DATE Wednesday, October 25, 2017

VEHICLE TYPE HOV

PEAK PERIOD 7:00 AM - 9:00 AM

WEATHER Clear

Section	RUNS								Average
	1 7:00 AM	2 7:08 AM	3 7:30 AM	4	5 8:12 AM	6 8:23 AM	7 8:46 AM	8 8:58 AM	
1	32	37	40	-	37	31	36	31	35
2	28	15	14	-	13	13	19	20	17
3	44	25	44	-	42	34	41	43	39
4	42	19	29	-	24	6	41	24	26
5	13	12	4	-	7	11	8	31	12
6	21	4	7	-	8	15	14	23	13
7	20	6	31	-	19	13	25	13	18
Average	29	17	24	-	21	18	26	26	23

Notes: Run #4 missed due to a miscommunication with the GP driver.



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# Travel Time by Section

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 Oakland, CA

ROUTE Northbound Capitol Expressway - Nieman to I-680

COLLECTION DATE Wednesday, October 25, 2017

VEHICLE TYPE HOV

PEAK PERIOD 4:00 PM - 6:00 PM

WEATHER Clear

Section	RUNS								Average
	1 4:03 PM	2 4:17 PM	3 4:31 PM	4 4:48 PM	5 5:02 PM	6 5:19 PM	7 5:39 PM	8 5:50 PM	
1	73	57	126	94	127	58	84	63	83
2	149	111	71	88	56	141	122	145	110
3	116	148	147	153	161	151	135	144	144
4	40	17	36	24	38	32	38	36	33
5	118	142	109	72	117	117	71	106	107
6	41	48	38	79	35	41	75	36	49
7	116	133	41	30	27	32	31	27	55
<b>Total Time</b>	<b>10:53</b>	<b>10:56</b>	<b>09:28</b>	<b>09:00</b>	<b>09:21</b>	<b>09:32</b>	<b>08:56</b>	<b>09:17</b>	<b>09:40</b>

Notes:





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COLLECTION DATE Wednesday, October 25, 2017

VEHICLE TYPE HOV

PEAK PERIOD 4:00 PM - 6:00 PM

WEATHER Clear

Section	RUNS								Average
	1 4:03 PM	2 4:17 PM	3 4:31 PM	4 4:48 PM	5 5:02 PM	6 5:19 PM	7 5:39 PM	8 5:50 PM	
1	24	32	15	19	16	32	30	29	25
2	14	19	28	23	35	15	17	14	21
3	17	13	13	13	12	13	14	14	13
4	22	51	24	38	24	28	23	25	29
5	24	21	27	39	25	25	40	27	28
6	33	27	36	19	39	33	19	37	30
7	11	9	30	41	45	39	39	46	32
Average	21	25	25	27	28	26	26	27	26

Notes:



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# Travel Time by Section

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 Oakland, CA

ROUTE Northbound Capitol Expressway - Nleman to I-680

COLLECTION DATE Thursday, October 26, 2017

VEHICLE TYPE HOV

PEAK PERIOD 7:00 AM - 9:00 AM

WEATHER Clear

Section	RUNS								Average
	1 7:00 AM	2 7:16 AM	3 7:30 AM	4 7:47 AM	5 7:58 AM	6 8:18 AM	7 8:29 AM	8 8:49 AM	
1	60	66	62	69	56	47	56	54	59
2	107	133	113	121	146	141	128	135	128
3	63	42	44	36	43	55	67	43	49
4	70	29	39	24	22	179	150	20	67
5	98	78	221	89	74	106	115	67	106
6	41	311	93	160	150	162	173	40	141
7	68	124	125	125	42	54	54	53	81
<b>Total Time</b>	<b>08:27</b>	<b>13:03</b>	<b>11:37</b>	<b>10:24</b>	<b>08:53</b>	<b>12:24</b>	<b>12:23</b>	<b>06:52</b>	<b>10:30</b>

Notes:



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VEHICLE TYPE HOV

PEAK PERIOD 7:00 AM - 9:00 AM

WEATHER Clear

Section	RUNS								Average
	1 7:00 AM	2 7:16 AM	3 7:30 AM	4 7:47 AM	5 7:58 AM	6 8:18 AM	7 8:29 AM	8 8:49 AM	
1	31	29	31	27	34	41	34	35	33
2	20	15	18	17	14	14	16	15	16
3	30	45	43	52	44	34	28	43	40
4	12	31	23	38	39	5	6	45	25
5	30	36	13	32	39	27	25	43	31
6	33	5	14	9	9	9	8	35	15
7	18	10	11	9	29	23	23	23	18
Average	25	24	22	26	30	22	20	34	25

Notes:



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COLLECTION DATE Thursday, October 26, 2017

VEHICLE TYPE HOV

PEAK PERIOD 4:00 PM - 6:00 PM

WEATHER Clear

Section	RUNS								Average
	1 4:00 PM	2 4:14 PM	3 4:31 PM	4 4:45 PM	5 5:04 PM	6 5:16 PM	7 5:33 PM	8 5:47 PM	
1	53	64	57	54	60	60	68	55	59
2	83	163	124	144	201	188	124	160	148
3	147	112	157	129	133	135	154	137	138
4	32	35	40	24	27	35	51	51	37
5	70	118	104	139	122	123	107	109	112
6	85	38	42	48	41	49	57	45	51
7	34	28	54	115	37	123	113	101	76
<b>Total Time</b>	<b>08:24</b>	<b>09:18</b>	<b>09:38</b>	<b>10:53</b>	<b>10:21</b>	<b>11:53</b>	<b>11:14</b>	<b>10:58</b>	<b>10:20</b>

Notes:



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COLLECTION DATE Thursday, October 26, 2017

VEHICLE TYPE HOV

PEAK PERIOD 4:00 PM - 6:00 PM

WEATHER Clear

Section	RUNS								Average
	1 4:00 PM	2 4:14 PM	3 4:31 PM	4 4:45 PM	5 5:04 PM	6 5:16 PM	7 5:33 PM	8 5:47 PM	
1	35	30	32	34	32	30	27	35	32
2	25	12	17	14	10	11	16	13	15
3	13	17	12	15	14	14	13	14	14
4	28	26	22	38	34	26	18	18	26
5	40	24	28	21	24	23	27	26	27
6	17	36	33	29	33	27	24	30	29
7	36	43	23	11	33	10	11	12	22
Average	28	27	24	23	26	20	19	21	24

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ROUTE Northbound Capitol Expressway - Nieman to I-680

COLLECTION DATE Wednesday, October 25, 2017

VEHICLE TYPE SOV

PEAK PERIOD 7:00 AM - 9:00 AM

WEATHER Clear

Section	RUNS								Average
	1 7:00 AM	2 7:08 AM	3 7:30 AM	4 7:38 AM	5 8:12 AM	6 8:23 AM	7 8:46 AM	8 8:58 AM	
1	97	55	51	39	49	58	56	54	57
2	49	160	141	40	154	149	96	113	113
3	46	55	45	137	38	98	56	46	65
4	24	55	32	32	44	127	23	33	46
5	197	377	717	588	400	385	296	216	397
6	367	166	193	182	171	190	131	49	181
7	53	37	61	37	32	140	42	46	56
<b>Total Time</b>	<b>13:53</b>	<b>15:05</b>	<b>20:40</b>	<b>17:35</b>	<b>14:48</b>	<b>19:07</b>	<b>11:40</b>	<b>09:17</b>	<b>15:16</b>

Notes:



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**ROUTE** Northbound Capitol Expressway - Nieman to I-680

**COLLECTION DATE** Wednesday, October 25, 2017

**VEHICLE TYPE** SOV

**PEAK PERIOD** 7:00 AM - 9:00 AM

**WEATHER** Clear

Section	RUNS								Average
	1 7:00 AM	2 7:08 AM	3 7:30 AM	4 7:38 AM	5 8:12 AM	6 8:23 AM	7 8:46 AM	8 8:58 AM	
1	20	34	38	50	39	32	34	34	35
2	41	13	14	50	13	14	21	18	23
3	41	34	42	14	50	19	35	41	34
4	37	17	28	27	20	7	40	27	25
5	15	8	4	5	7	8	9	13	9
6	4	8	7	7	8	7	11	28	10
7	23	33	20	33	38	9	30	27	26
<b>Average</b>	<b>26</b>	<b>21</b>	<b>22</b>	<b>27</b>	<b>25</b>	<b>14</b>	<b>26</b>	<b>27</b>	<b>23</b>

Notes:



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COLLECTION DATE Wednesday, October 25, 2017

VEHICLE TYPE SOV

PEAK PERIOD 4:00 PM - 6:00 PM

WEATHER Clear

Section	RUNS								Average
	1 4:03 PM	2 4:17 PM	3 4:31 PM	4 4:48 PM	5 5:02 PM	6 5:19 PM	7 5:39 PM	8 5:50 PM	
1	55	48	56	137	139	50	62	144	86
2	126	117	132	63	63	134	136	95	108
3	150	152	150	130	154	154	139	93	140
4	34	17	33	31	24	30	37	28	29
5	117	64	115	88	119	127	116	81	103
6	39	106	38	57	44	33	51	71	55
7	32	26	38	27	116	32	121	23	52
<b>Total Time</b>	<b>09:13</b>	<b>08:50</b>	<b>09:22</b>	<b>08:53</b>	<b>10:59</b>	<b>09:20</b>	<b>11:02</b>	<b>08:55</b>	<b>09:34</b>

Notes:





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COLLECTION DATE Wednesday, October 25, 2017

VEHICLE TYPE SOV

PEAK PERIOD 4:00 PM - 6:00 PM

WEATHER Clear

Section	RUNS								Average
	1 4:03 PM	2 4:17 PM	3 4:31 PM	4 4:46 PM	5 5:02 PM	6 5:19 PM	7 5:39 PM	8 5:50 PM	
1	34	39	33	14	14	37	29	13	27
2	16	17	16	31	30	16	15	21	20
3	13	12	13	15	13	12	14	21	14
4	27	54	27	29	36	30	24	28	32
5	24	43	25	31	25	23	25	36	29
6	34	14	36	25	31	40	27	20	28
7	39	47	32	46	11	39	10	53	35
Average	27	33	26	27	23	28	21	27	26

Notes:



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ROUTE Northbound Captol Expressway - Nieman to I-680

COLLECTION DATE Thursday, October 26, 2017 VEHICLE TYPE SOV

PEAK PERIOD 7:00 AM - 9:00 AM WEATHER Clear

Section	RUNS								Average
	1 7:00 AM	2 7:16 AM	3 7:30 AM	4 7:47 AM	5 7:58 AM	6 8:18 AM	7 8:29 AM	8 8:49 AM	
1	101	44	56	50	57	49	55	41	57
2	47	56	117	127	116	139	128	145	109
3	38	104	40	39	39	48	143	49	63
4	17	47	44	29	46	171	96	20	59
5	78	102	240	106	77	85	230	69	123
6	48	216	185	161	168	54	70	38	117
7	102	127	58	90	44	48	48	34	69
<b>Total Time</b>	<b>07:09</b>	<b>11:36</b>	<b>12:20</b>	<b>10:02</b>	<b>09:07</b>	<b>09:54</b>	<b>12:50</b>	<b>06:36</b>	<b>09:57</b>

Notes:



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# Average Speed by Section

Prepared For:

**Kittelson & Associates, Inc.**  
 155 Grand Avenue, Suite 900  
 Oakland, CA

**ROUTE** Northbound Capitol Expressway - Nleman to I-680

**COLLECTION DATE** Thursday, October 26, 2017

**VEHICLE TYPE** SOV

**PEAK PERIOD** 7:00 AM - 9:00 AM

**WEATHER** Clear

Section	RUNS								Average
	1 7:00 AM	2 7:16 AM	3 7:30 AM	4 7:47 AM	5 7:58 AM	6 8:18 AM	7 8:29 AM	8 8:49 AM	
1	19	43	34	36	33	39	34	46	36
2	42	36	17	17	18	15	16	14	22
3	50	18	47	49	47	39	13	38	38
4	49	19	20	31	20	5	9	45	25
5	37	27	12	27	37	34	12	42	29
6	29	6	7	8	8	25	20	36	18
7	12	10	21	13	28	26	25	36	21
<b>Average</b>	<b>34</b>	<b>23</b>	<b>23</b>	<b>26</b>	<b>27</b>	<b>26</b>	<b>19</b>	<b>37</b>	<b>27</b>

Notes:



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# Travel Time by Section

Prepared For

Kittelson & Associates, Inc.  
 155 Grand Avenue, Suite 900  
 Oakland, CA

ROUTE Northbound Capitol Expressway - Nieman to I-680

COLLECTION DATE Thursday, October 26, 2017

VEHICLE TYPE SOV

PEAK PERIOD 4:00 PM - 6:00 PM

WEATHER Clear

Section	RUNS								Average
	1 4:00 PM	2 4:14 PM	3 4:34 PM	4 4:45 PM	5 5:01 PM	6 5:16 PM	7 5:34 PM	8 5:47 PM	
1	82	52	132	44	42	57	139	45	74
2	55	131	80	119	134	186	65	156	116
3	147	164	127	160	42	134	141	151	133
4	31	20	19	25	49	33	32	22	29
5	125	91	130	74	112	114	112	135	112
6	33	58	33	81	35	29	39	36	43
7	33	25	26	26	33	21	41	23	29
<b>Total Time</b>	<b>08:26</b>	<b>09:01</b>	<b>09:07</b>	<b>08:49</b>	<b>07:27</b>	<b>09:34</b>	<b>09:29</b>	<b>09:28</b>	<b>08:55</b>

Notes:



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# Average Speed by Section

Prepared For:

Kittelson & Associates, Inc.  
 155 Grand Avenue, Suite 900  
 Oakland, CA

ROUTE Northbound Capitol Expressway - Nleman to I-680

COLLECTION DATE Thursday, October 26, 2017

VEHICLE TYPE SOV

PEAK PERIOD 4:00 PM - 6:00 PM

WEATHER Clear

Section	RUNS								Average
	1 4:00 PM	2 4:14 PM	3 4:34 PM	4 4:45 PM	5 5:01 PM	6 5:16 PM	7 5:34 PM	8 5:47 PM	
1	24	36	15	42	45	32	14	42	31
2	35	15	24	17	16	11	30	13	20
3	13	12	15	12	43	14	14	12	17
4	29	38	48	35	19	27	27	38	33
5	23	32	22	37	26	25	26	22	27
6	41	25	40	18	39	47	34	38	35
7	37	49	48	47	37	59	30	53	45
Average	29	30	30	30	32	31	25	31	30

Notes:



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# Travel Time by Section

Prepared For:

Kittelson & Associates, Inc.  
 155 Grand Avenue, Suite 900  
 Oakland, CA

ROUTE Southbound Capitol Expressway - I-680 to Nieman

COLLECTION DATE Wednesday, October 25, 2017

VEHICLE TYPE HOV

PEAK PERIOD 7:00 AM - 9:00 AM

WEATHER Clear

Section	RUNS								Average
	1 7:17 AM	2	3 7:59 AM	4 8:11 AM	5 8:35 AM	6 8:47 AM	7 9:09 AM	8 9:11 AM	
1	27	-	60	22	22	29	20	40	31
2	53	-	37	30	42	81	106	110	66
3	115	-	86	72	142	60	71	116	95
4	22	-	23	23	34	20	23	23	24
5	59	-	69	62	50	93	69	62	66
6	172	-	53	57	95	53	96	58	83
7	84	-	38	40	38	41	42	52	48
<b>Total Time</b>	<b>08:52</b>	<b>-</b>	<b>06:06</b>	<b>05:06</b>	<b>07:03</b>	<b>06:17</b>	<b>07:07</b>	<b>07:41</b>	<b>06:53</b>

Notes: Run #2 missed due to a miscommunication with the GP driver.



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# Average Speed by Section

Prepared For:

Kittelson & Associates, Inc.  
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 Oakland, CA

ROUTE Southbound Captol Expressway - I-680 to Nieman

COLLECTION DATE Wednesday, October 25, 2017

VEHICLE TYPE HOV

PEAK PERIOD 7:00 AM - 9:00 AM

WEATHER Clear

Section	RUNS								Average
	1 7:17 AM	2 -	3 7:59 AM	4 8:11 AM	5 8:35 AM	6 8:47 AM	7 9:09 AM	8 9:11 AM	
1	36	-	17	45	45	32	51	25	36
2	24	-	36	45	33	18	13	13	26
3	26	-	33	40	20	48	40	24	33
4	39	-	37	40	28	44	38	38	38
5	31	-	28	30	36	21	26	30	29
6	12	-	37	35	22	38	22	35	29
7	23	-	52	49	52	48	47	38	44
Average	27	-	34	41	33	35	34	29	33

Notes: Run #2 missed due to a miscommunication with the GP driver.



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# Travel Time by Section

Prepared For:

**Kittelson & Associates, Inc.**  
 155 Grand Avenue, Suite 900  
 Oakland, CA

**ROUTE** Southbound Capitol Expressway - I-680 to Nieman

**COLLECTION DATE** Wednesday, October 25, 2017

**VEHICLE TYPE** HOV

**PEAK PERIOD** 4:00 PM - 6:00 PM

**WEATHER** Clear

Section	RUNS								Average
	1 3:59 PM	2 4:17 PM	3 4:37 PM	4 4:51 PM	5 5:00 PM	6 5:17 PM	7 5:35 PM	8 5:51 PM	
1	37	108	117	97	110	110	95	96	96
2	36	36	39	71	36	156	140	58	72
3	189	67	75	71	99	67	70	183	100
4	22	22	21	19	107	19	24	25	32
5	42	43	44	41	53	47	52	63	48
6	47	44	49	48	51	48	45	48	48
7	45	44	40	46	47	45	37	47	44
<b>Total Time</b>	<b>06:38</b>	<b>06:04</b>	<b>06:25</b>	<b>06:33</b>	<b>08:23</b>	<b>08:12</b>	<b>07:43</b>	<b>08:40</b>	<b>07:20</b>

Notes:





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# Average Speed by Section

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**ROUTE** Southbound Capitol Expressway - I-680 to Nieman

**COLLECTION DATE** Wednesday, October 25, 2017

**VEHICLE TYPE** HOV

**PEAK PERIOD** 4:00 PM - 6:00 PM

**WEATHER** Clear

Section	RUNS								Average
	1	2	3	4	5	6	7	8	
	3:59 PM	4:17 PM	4:37 PM	4:51 PM	5:00 PM	5:17 PM	5:35 PM	5:51 PM	
1	27	9	9	10	9	9	10	10	12
2	35	38	34	19	37	9	10	23	26
3	17	42	38	40	29	42	41	16	33
4	42	41	42	46	8	47	38	36	37
5	45	44	43	46	36	40	36	30	40
6	43	46	41	42	39	42	45	42	43
7	44	44	49	43	42	43	53	42	45
<b>Average</b>	<b>36</b>	<b>38</b>	<b>37</b>	<b>35</b>	<b>29</b>	<b>33</b>	<b>33</b>	<b>28</b>	<b>34</b>

Notes:



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ROUTE Southbound Capitol Expressway - I-680 to Nleman

COLLECTION DATE Thursday, October 26, 2017

VEHICLE TYPE HOV

PEAK PERIOD 7:00 AM - 9:00 AM

WEATHER Clear

Section	RUNS								Average
	1 7:03 AM	2 7:16 AM	3 7:32 AM	4 7:45 AM	5 8:01 AM	6 8:13 AM	7 8:33 AM	8 8:45 AM	
1	21	36	22	29	23	79	58	23	36
2	29	52	31	81	42	33	33	38	42
3	61	79	167	68	145	66	57	185	104
4	20	22	23	22	37	22	19	22	23
5	57	55	43	56	50	57	45	55	52
6	73	49	124	51	78	56	91	87	76
7	41	44	40	45	43	45	51	42	44
<b>Total Time</b>	<b>05:02</b>	<b>05:37</b>	<b>07:30</b>	<b>05:52</b>	<b>06:58</b>	<b>05:58</b>	<b>05:54</b>	<b>07:32</b>	<b>06:18</b>

Notes:



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ROUTE Southbound Capitol Expressway - I-680 to Nieman

COLLECTION DATE Thursday, October 26, 2017

VEHICLE TYPE HOV

PEAK PERIOD 7:00 AM - 9:00 AM

WEATHER Clear

Section	RUNS								Average
	1 7:03 AM	2 7:16 AM	3 7:32 AM	4 7:45 AM	5 8:01 AM	6 8:13 AM	7 8:33 AM	8 8:45 AM	
1	47	26	46	33	43	13	18	44	34
2	47	27	44	18	31	41	41	36	36
3	47	37	17	42	20	43	50	16	34
4	45	40	39	41	26	42	47	40	40
5	33	35	42	34	36	33	41	33	36
6	28	41	17	39	27	36	23	23	29
7	48	45	49	44	45	44	37	47	45
Average	42	36	36	36	33	36	37	34	36

Notes:



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# Travel Time by Section

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ROUTE Southbound Capitol Expressway - I-880 to Nieman

COLLECTION DATE Thursday, October 26, 2017 VEHICLE TYPE HOV

PEAK PERIOD 4:00 PM - 6:00 PM WEATHER Clear

Section	RUNS								Average
	1 3:58 PM	2 4:17 PM	3 4:29 PM	4 4:46 PM	5 5:01 PM	6 5:18 PM	7 5:33 PM	8 5:48 PM	
1	81	46	116	91	88	87	46	117	84
2	52	112	50	34	38	38	145	50	65
3	134	79	72	71	66	179	71	187	107
4	21	25	22	104	20	22	21	24	32
5	47	49	45	46	43	42	44	48	46
6	53	47	59	70	43	46	42	49	51
7	46	41	144	49	50	43	40	51	58
<b>Total Time</b>	<b>07:14</b>	<b>06:39</b>	<b>08:28</b>	<b>07:45</b>	<b>05:48</b>	<b>07:37</b>	<b>06:49</b>	<b>08:46</b>	<b>07:23</b>

Notes:



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# Average Speed by Section

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ROUTE Southbound Capitol Expressway - I-680 to Nieman

COLLECTION DATE Thursday, October 26, 2017

VEHICLE TYPE HOV

PEAK PERIOD 4:00 PM - 6:00 PM

WEATHER Clear

Section	RUNS								Average
	1 3:58 PM	2 4:17 PM	3 4:29 PM	4 4:46 PM	5 5:01 PM	6 5:18 PM	7 5:33 PM	8 5:48 PM	
1	12	20	9	11	11	12	20	8	13
2	24	13	27	41	36	35	9	26	26
3	22	36	40	40	43	16	40	16	32
4	43	36	41	9	46	40	43	37	37
5	40	38	42	40	44	45	43	39	41
6	38	42	34	30	46	44	48	41	40
7	42	49	14	40	40	46	49	37	40
Average	32	33	29	30	38	34	36	29	33

Notes:



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# Travel Time by Section

Prepared For:

**Kittelson & Associates, Inc.**  
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 Oakland, CA

**ROUTE** Southbound Capitol Expressway - I-680 to Nieman

**COLLECTION DATE** Wednesday, October 25, 2017

**VEHICLE TYPE** SOV

**PEAK PERIOD** 7:00 AM - 9:00 AM

**WEATHER** Clear

Section	RUNS								Average
	1 7:17 AM	2 7:23 AM	3 7:57 AM	4 7:59 AM	5 8:35 AM	6 8:47 AM	7 9:09 AM	8 9:11 AM	
1	27	4	33	52	21	81	19	37	34
2	84	149	49	36	34	40	99	58	69
3	84	127	178	94	174	74	72	134	117
4	24	27	26	20	25	20	24	63	29
5	55	117	96	82	90	72	129	60	88
6	179	45	53	45	44	54	49	62	66
7	80	126	51	38	37	49	40	51	59
<b>Total Time</b>	<b>08:53</b>	<b>09:55</b>	<b>08:06</b>	<b>06:07</b>	<b>07:05</b>	<b>06:30</b>	<b>07:12</b>	<b>07:45</b>	<b>07:42</b>

Notes:



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# Average Speed by Section

Prepared For:

Kittelson & Associates, Inc.  
 155 Grand Avenue, Suite 900  
 Oakland, CA

ROUTE Southbound Capitol Expressway - I-580 to Nieman

COLLECTION DATE Wednesday, October 25, 2017

VEHICLE TYPE SOV

PEAK PERIOD 7:00 AM - 9:00 AM

WEATHER Clear

Section	RUNS								Average
	1 7:17 AM	2 7:23 AM	3 7:57 AM	4 7:59 AM	5 8:35 AM	6 8:47 AM	7 9:09 AM	8 9:11 AM	
1	38	0	31	20	48	13	53	28	29
2	16	9	27	38	38	35	14	23	25
3	34	23	16	30	17	38	40	21	27
4	37	33	34	43	36	43	37	16	35
5	33	16	20	23	21	26	15	31	23
6	12	44	38	45	44	37	41	32	37
7	24	16	39	51	54	41	50	38	39
Average	28	20	29	36	37	33	36	27	31

Notes:



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# Travel Time by Section

Prepared For:

**Kittelson & Associates, Inc.**  
 155 Grand Avenue, Suite 900  
 Oakland, CA

**ROUTE** Southbound Capitol Expressway - I-680 to Nieman

**COLLECTION DATE** Wednesday, October 25, 2017

**VEHICLE TYPE** SOV

**PEAK PERIOD** 4:00 PM - 6:00 PM

**WEATHER** Clear

Section	RUNS								Average
	1 4:00 PM	2 4:17 PM	3 4:30 PM	4 4:51 PM	5 5:00 PM	6 5:17 PM	7 5:36 PM	8 5:53 PM	
1	35	112	82	57	104	111	46	45	74
2	137	43	47	122	65	180	150	138	110
3	68	76	161	73	69	79	84	97	88
4	19	22	21	18	20	21	99	94	39
5	42	43	50	45	40	50	64	68	50
6	49	45	49	48	42	57	66	60	52
7	40	46	41	47	42	153	42	55	58
<b>Total Time</b>	<b>06:30</b>	<b>06:27</b>	<b>07:31</b>	<b>06:50</b>	<b>06:22</b>	<b>10:51</b>	<b>09:11</b>	<b>09:17</b>	<b>07:52</b>

Notes:





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# Average Speed by Section

Prepared For:

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 155 Grand Avenue, Suite 900  
 Oakland, CA

ROUTE Southbound Capitol Expressway - I-680 to Nleman

COLLECTION DATE Wednesday, October 25, 2017 VEHICLE TYPE SOV

PEAK PERIOD 4:00 PM - 6:00 PM WEATHER Clear

Section	RUNS								Average
	1 4:00 PM	2 4:17 PM	3 4:30 PM	4 4:51 PM	5 5:00 PM	6 5:17 PM	7 5:36 PM	8 5:53 PM	
1	28	9	12	16	10	9	17	21	15
2	10	31	27	12	21	8	10	10	16
3	42	38	18	39	41	36	33	29	35
4	49	41	44	49	45	42	9	10	36
5	44	43	37	43	47	38	29	28	39
6	41	45	41	41	47	36	31	34	39
7	50	42	48	42	47	13	47	35	41
Average	38	36	33	35	37	26	25	24	32

Notes:



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# Travel Time by Section

Prepared For:

Kittelson & Associates, Inc.  
 155 Grand Avenue, Suite 900  
 Oakland, CA

ROUTE Southbound Capitol Expressway - I-680 to Nieman

COLLECTION DATE Thursday, October 26, 2017

VEHICLE TYPE SOV

PEAK PERIOD 7:00 AM - 9:00 AM

WEATHER Clear

Section	RUNS								Average
	1 7:03 AM	2 7:18 AM	3 7:32 AM	4 7:45 AM	5 8:03 AM	6 8:13 AM	7 8:33 AM	8 8:45 AM	
1	22	22	21	31	46	83	56	23	38
2	29	35	30	75	57	33	34	30	40
3	61	177	168	72	142	62	62	60	101
4	21	22	22	21	50	19	22	18	24
5	89	50	118	64	45	70	95	74	76
6	47	99	47	47	86	48	44	46	58
7	41	39	41	43	35	42	46	38	41
<b>Total Time</b>	<b>05:10</b>	<b>07:24</b>	<b>07:27</b>	<b>05:53</b>	<b>07:41</b>	<b>05:57</b>	<b>05:59</b>	<b>04:49</b>	<b>06:18</b>

Notes:



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 155 Grand Avenue, Suite 900  
 Oakland, CA

ROUTE Southbound Capitol Expressway - I-680 to Nieman

COLLECTION DATE Thursday, October 26, 2017

VEHICLE TYPE SOV

PEAK PERIOD 7:00 AM - 9:00 AM

WEATHER Clear

Section	RUNS								Average
	1 7:03 AM	2 7:18 AM	3 7:32 AM	4 7:45 AM	5 8:03 AM	6 8:13 AM	7 8:33 AM	8 8:45 AM	
1	47	45	48	31	22	13	18	45	34
2	46	39	45	19	23	41	40	46	37
3	47	16	17	40	20	46	46	47	35
4	43	40	40	41	20	45	40	49	40
5	22	37	16	30	41	28	20	26	27
6	43	21	42	42	23	41	45	43	38
7	48	51	49	46	58	47	40	52	49
Average	42	36	37	36	30	37	36	44	37

Notes:



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# Travel Time by Section

Prepared For:

Kittelson & Associates, Inc.  
 155 Grand Avenue, Suite 900  
 Oakland, CA

ROUTE Southbound Capitol Expressway - I-680 to Nleman

COLLECTION DATE Thursday, October 26, 2017

VEHICLE TYPE SOV

PEAK PERIOD 4:00 PM - 6:00 PM

WEATHER Clear

Section	RUNS								Average
	1 3:58 PM	2 4:17 PM	3 4:28 PM	4 4:46 PM	5 5:00 PM	6 5:18 PM	7 5:32 PM	8 5:48 PM	
1	74	122	109	98	72	98	76	115	96
2	48	41	53	150	44	150	148	77	89
3	149	72	72	66	72	78	68	180	95
4	22	18	19	18	17	19	19	23	19
5	61	41	36	44	36	50	46	49	45
6	47	42	41	54	44	46	53	47	47
7	40	42	38	47	45	41	43	37	42
<b>Total Time</b>	<b>07:21</b>	<b>06:18</b>	<b>06:08</b>	<b>07:57</b>	<b>05:30</b>	<b>08:02</b>	<b>07:33</b>	<b>08:48</b>	<b>07:12</b>

Notes:



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**ROUTE** Southbound Capitol Expressway - I-680 to Nieman

**COLLECTION DATE** Thursday, October 26, 2017

**VEHICLE TYPE** SOV

**PEAK PERIOD** 4:00 PM - 6:00 PM

**WEATHER** Clear

Section	RUNS								Average
	1	2	3	4	5	6	7	8	
	3:58 PM	4:17 PM	4:28 PM	4:46 PM	5:00 PM	5:18 PM	5:32 PM	5:48 PM	
1	14	8	9	10	14	10	13	9	11
2	27	33	26	9	31	9	9	18	20
3	19	40	40	43	40	37	42	18	35
4	40	48	46	50	52	45	47	39	46
5	31	46	52	43	52	38	41	38	43
6	43	48	50	38	46	43	38	43	43
7	49	47	52	41	43	48	46	53	48
<b>Average</b>	<b>32</b>	<b>39</b>	<b>39</b>	<b>33</b>	<b>40</b>	<b>33</b>	<b>34</b>	<b>31</b>	<b>35</b>

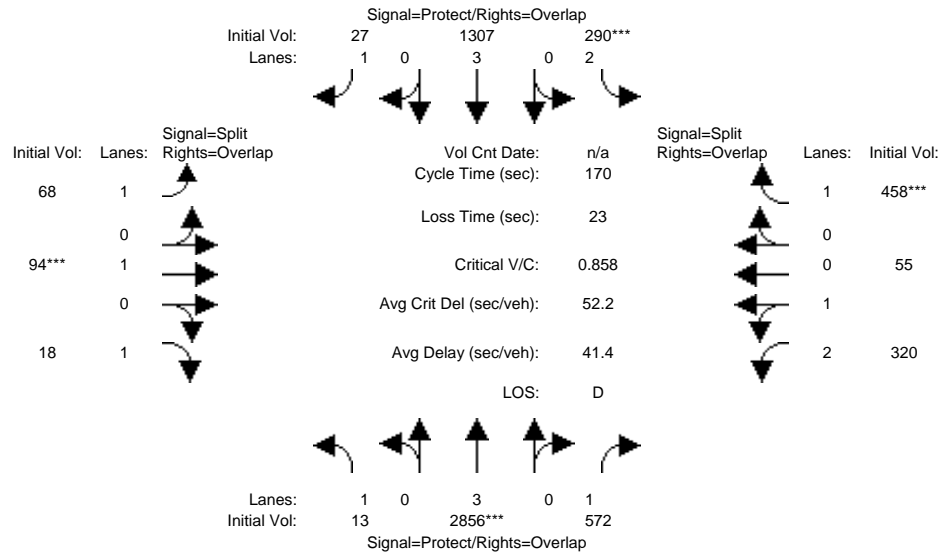
Notes:

**Appendix B**  
**Level of Service Calculations**

Capitol Expressway LRT Corridor  
San Jose  
Santa Clara County

Level Of Service Computation Report  
2000 HCM Operations (Future Volume Alternative)  
2017 AM NP

Intersection #1: Capitol Expressway & Capitol Avenue



Street Name:	Capitol Expressway						Capitol Avenue / Excalibur Drive					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	5.2	5.8	5.8	5.9	5.8	5.8	5.5	5.5	5.5	5.9	5.9	5.9

Volume Module:	North Bound			South Bound			East Bound			West Bound		
Base Vol:	13	2856	572	290	1307	27	68	94	18	320	55	458
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	13	2856	572	290	1307	27	68	94	18	320	55	458
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	13	2856	572	290	1307	27	68	94	18	320	55	458
User Adj:	1.00	0.86	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	13	2456	572	290	1307	27	68	94	18	320	55	458
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	13	2456	572	290	1307	27	68	94	18	320	55	458
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	13	2456	572	290	1307	27	68	94	18	320	55	458

Saturation Flow Module:	North Bound			South Bound			East Bound			West Bound		
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.83	1.00	0.92	0.92	1.00	0.92	0.85	0.95	0.92
Lanes:	1.00	3.00	1.00	2.00	3.00	1.00	1.00	1.00	1.00	2.60	0.40	1.00
Final Sat.:	1750	5700	1750	3150	5700	1750	1750	1900	1750	4218	725	1750

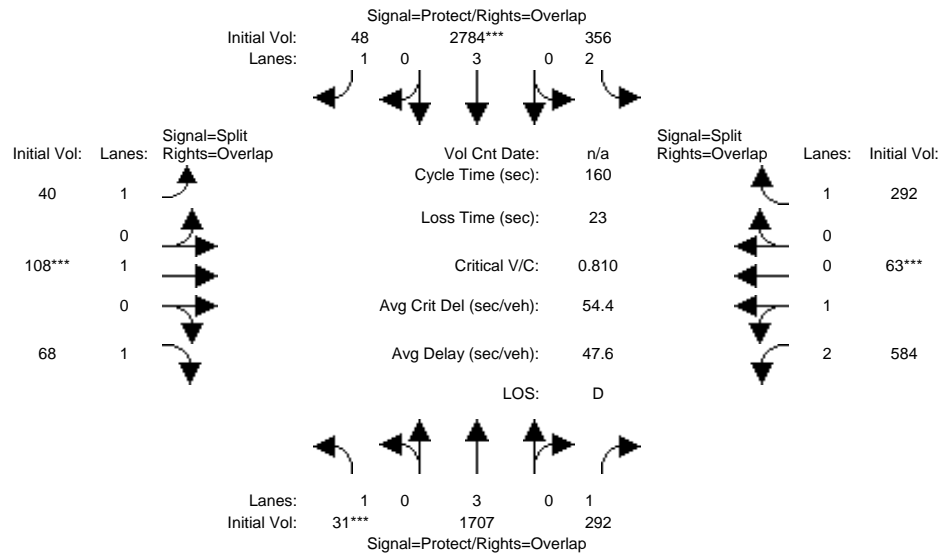
Capacity Analysis Module:	North Bound			South Bound			East Bound			West Bound		
Vol/Sat:	0.01	0.43	0.33	0.09	0.23	0.02	0.04	0.05	0.01	0.08	0.08	0.26
Crit Moves:	****			****			****			****		
Green Time:	5.0	85.2	111.3	20.1	104	119.7	15.5	15.5	17.3	26.1	26.1	46.2
Volume/Cap:	0.25	0.86	0.50	0.78	0.37	0.02	0.43	0.54	0.10	0.49	0.49	0.96
Delay/Veh:	83.3	40.0	15.4	82.9	16.6	7.6	74.9	77.3	69.5	66.4	66.4	92.9
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	83.3	40.0	15.4	82.9	16.6	7.6	74.9	77.3	69.5	66.4	66.4	92.9
LOS by Move:	F	D	B	F	B	A	E	E	E	E	E	F
HCM2k95thQ:	1	55	27	19	20	1	8	10	2	14	14	48

Note: Queue reported is the number of cars per lane.

Capitol Expressway LRT Corridor  
San Jose  
Santa Clara County

Level Of Service Computation Report  
2000 HCM Operations (Future Volume Alternative)  
2017 PM NP

Intersection #1: Capitol Expressway & Capitol Avenue



Street Name:	Capitol Expressway						Capitol Avenue / Excalibur Drive					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	5.2	5.8	5.8	5.9	5.8	5.8	5.5	5.5	5.5	5.9	5.9	5.9

Volume Module:												
Base Vol:	31	1707	292	356	2784	48	40	108	68	584	63	292
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	31	1707	292	356	2784	48	40	108	68	584	63	292
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	31	1707	292	356	2784	48	40	108	68	584	63	292
User Adj:	1.00	0.79	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	31	1349	292	356	2784	48	40	108	68	584	63	292
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	31	1349	292	356	2784	48	40	108	68	584	63	292
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	31	1349	292	356	2784	48	40	108	68	584	63	292

Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.83	1.00	0.92	0.92	1.00	0.92	0.86	0.95	0.92
Lanes:	1.00	3.00	1.00	2.00	3.00	1.00	1.00	1.00	1.00	2.73	0.27	1.00
Final Sat.:	1750	5700	1750	3150	5700	1750	1750	1900	1750	4464	482	1750

Capacity Analysis Module:												
Vol/Sat:	0.02	0.24	0.17	0.11	0.49	0.03	0.02	0.06	0.04	0.13	0.13	0.17
Crit Moves:	***			***			***			***		
Green Time:	5.8	63.2	99.3	26.1	83.2	95.7	12.5	12.5	18.3	36.1	36.1	62.2
Volume/Cap:	0.49	0.60	0.27	0.69	0.94	0.05	0.29	0.73	0.34	0.58	0.58	0.43
Delay/Veh:	81.4	35.0	7.4	67.2	52.4	18.5	70.8	88.6	66.3	56.0	56.0	36.3
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	81.4	35.0	7.4	67.2	52.4	18.5	70.8	88.6	66.3	56.0	56.0	36.3
LOS by Move:	F	C	A	E	D	B	E	F	E	E	E	D
HCM2k95thQ:	3	26	7	20	73	3	5	13	7	20	20	20

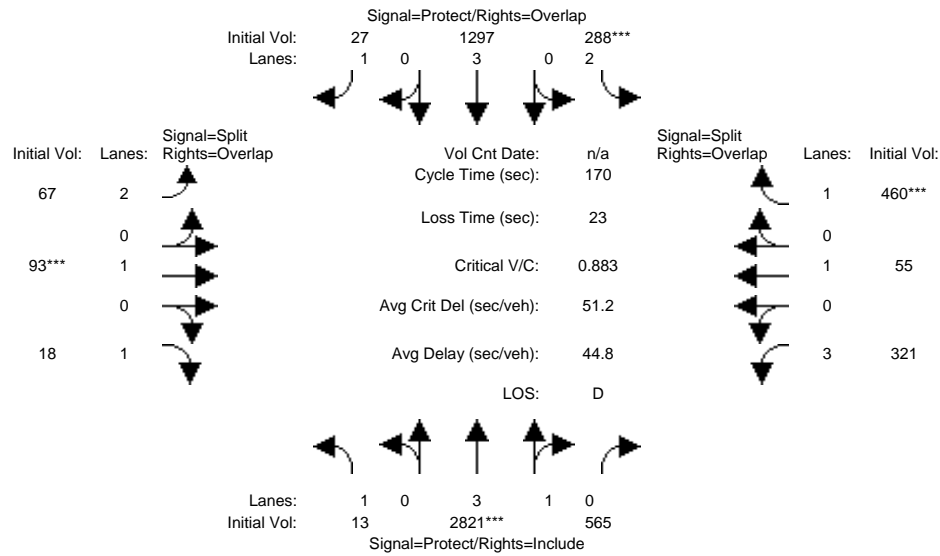
Note: Queue reported is the number of cars per lane.



Capitol Expressway LRT Corridor  
San Jose  
Santa Clara County

Level Of Service Computation Report  
2000 HCM Operations (Future Volume Alternative)  
2017 AM PP

Intersection #1: Capitol Expressway & Capitol Avenue



Street Name:	Capitol Expressway						Capitol Avenue / Excalibur Drive					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	5.2	5.8	5.8	5.9	5.8	5.8	5.5	5.5	5.5	5.9	5.9	5.9

Volume Module:												
Base Vol:	13	2821	565	288	1297	27	67	93	18	321	55	460
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	13	2821	565	288	1297	27	67	93	18	321	55	460
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	13	2821	565	288	1297	27	67	93	18	321	55	460
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	13	2821	565	288	1297	27	67	93	18	321	55	460
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	13	2821	565	288	1297	27	67	93	18	321	55	460
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	13	2821	565	288	1297	27	67	93	18	321	55	460

Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.99	0.95	0.83	1.00	0.92	0.83	1.00	0.92	0.80	1.00	0.92
Lanes:	1.00	3.30	0.70	2.00	3.00	1.00	2.00	1.00	1.00	3.00	1.00	1.00
Final Sat.:	1750	6246	1251	3150	5700	1750	3150	1900	1750	4551	1900	1750

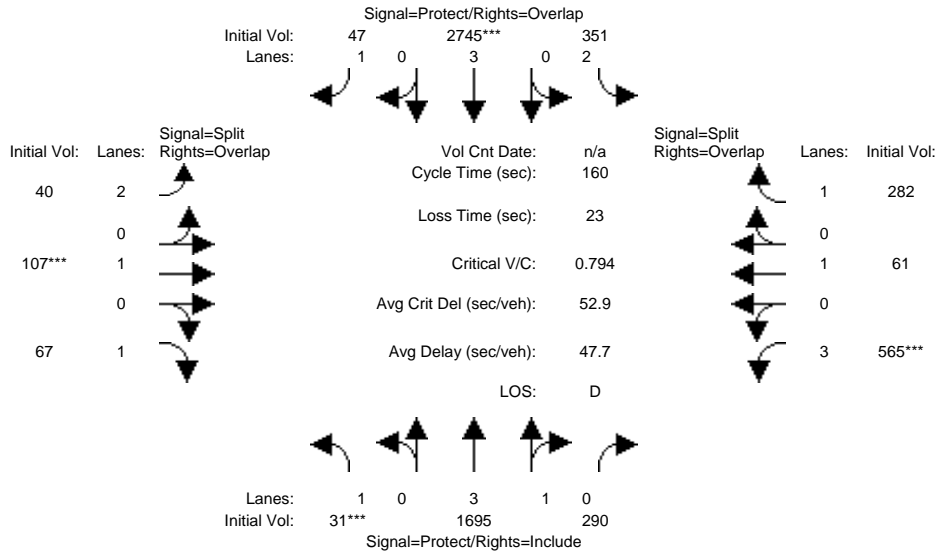
Capacity Analysis Module:												
Vol/Sat:	0.01	0.45	0.45	0.09	0.23	0.02	0.02	0.05	0.01	0.07	0.03	0.26
Crit Moves:	****			****			****			****		
Green Time:	5.0	85.2	85.2	20.1	104	119.7	15.5	15.5	17.3	26.1	26.1	46.2
Volume/Cap:	0.25	0.90	0.90	0.77	0.37	0.02	0.23	0.54	0.10	0.46	0.19	0.97
Delay/Veh:	83.3	42.0	42.0	82.4	16.6	7.6	72.1	77.1	69.5	66.0	63.0	93.9
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	83.3	42.0	42.0	82.4	16.6	7.6	72.1	77.1	69.5	66.0	63.0	93.9
LOS by Move:	F	D	D	F	B	A	E	E	E	E	E	F
HCM2k95thQ:	1	59	59	19	20	1	4	10	2	13	5	49

Note: Queue reported is the number of cars per lane.

Capitol Expressway LRT Corridor  
San Jose  
Santa Clara County

Level Of Service Computation Report  
2000 HCM Operations (Future Volume Alternative)  
2017 PM PP

Intersection #1: Capitol Expressway & Capitol Avenue



Street Name:	Capitol Expressway						Capitol Avenue / Excalibur Drive					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	5.2	5.8	5.8	5.9	5.8	5.8	5.5	5.5	5.5	5.9	5.9	5.9

Volume Module:	North Bound			South Bound			East Bound			West Bound		
Base Vol:	31	1695	290	351	2745	47	40	107	67	565	61	282
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	31	1695	290	351	2745	47	40	107	67	565	61	282
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	31	1695	290	351	2745	47	40	107	67	565	61	282
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	31	1695	290	351	2745	47	40	107	67	565	61	282
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	31	1695	290	351	2745	47	40	107	67	565	61	282
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	31	1695	290	351	2745	47	40	107	67	565	61	282

Saturation Flow Module:	North Bound			South Bound			East Bound			West Bound		
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.99	0.95	0.83	1.00	0.92	0.83	1.00	0.92	0.80	1.00	0.92
Lanes:	1.00	3.39	0.61	2.00	3.00	1.00	2.00	1.00	1.00	3.00	1.00	1.00
Final Sat.:	1750	6402	1095	3150	5700	1750	3150	1900	1750	4551	1900	1750

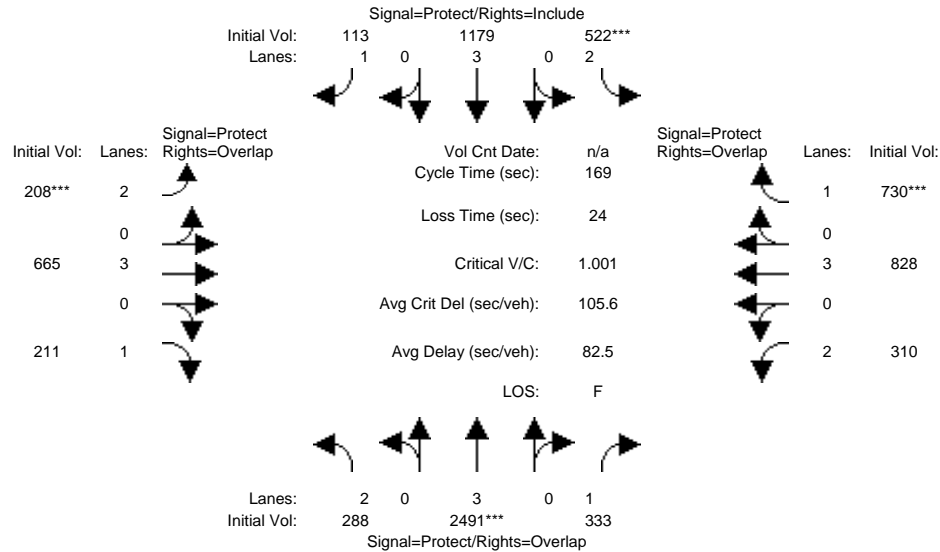
Capacity Analysis Module:	North Bound			South Bound			East Bound			West Bound		
Vol/Sat:	0.02	0.26	0.26	0.11	0.48	0.03	0.01	0.06	0.04	0.12	0.03	0.16
Crit Moves:	***			****			****			****		
Green Time:	5.8	63.2	63.2	26.1	83.2	95.7	12.5	12.5	18.3	36.1	36.1	62.2
Volume/Cap:	0.49	0.67	0.67	0.68	0.93	0.04	0.16	0.72	0.33	0.55	0.14	0.41
Delay/Veh:	81.4	36.4	36.4	66.8	50.7	18.5	69.2	87.9	66.2	55.4	49.7	36.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	81.4	36.4	36.4	66.8	50.7	18.5	69.2	87.9	66.2	55.4	49.7	36.0
LOS by Move:	F	D	D	E	D	B	E	F	E	E	D	D
HCM2k95thQ:	3	29	29	20	71	3	2	13	7	19	5	19

Note: Queue reported is the number of cars per lane.

Capitol Expressway LRT Corridor  
San Jose  
Santa Clara County

Level Of Service Computation Report  
2000 HCM Operations (Future Volume Alternative)  
2017 AM NP

Intersection #2: Capitol Expressway & Story Road



Street Name:	Capitol Expressway						Story Road					
	North Bound			South Bound			East Bound			West Bound		
Approach:												
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	5.5	5.8	5.8	5.9	5.8	5.8	6.3	6.1	6.1	6.3	6.2	6.2

Volume Module:												
Base Vol:	288	2491	333	522	1179	113	208	665	211	310	828	730
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	288	2491	333	522	1179	113	208	665	211	310	828	730
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	288	2491	333	522	1179	113	208	665	211	310	828	730
User Adj:	1.00	0.86	1.00	1.00	0.79	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	288	2142	333	522	931	113	208	665	211	310	828	730
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	288	2142	333	522	931	113	208	665	211	310	828	730
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	288	2142	333	522	931	113	208	665	211	310	828	730

Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.83	1.00	0.92	0.83	1.00	0.92	0.83	1.00	0.92	0.83	1.00	0.92
Lanes:	2.00	3.00	1.00	2.00	3.00	1.00	2.00	3.00	1.00	2.00	3.00	1.00
Final Sat.:	3150	5700	1750	3150	5700	1750	3150	5700	1750	3150	5700	1750

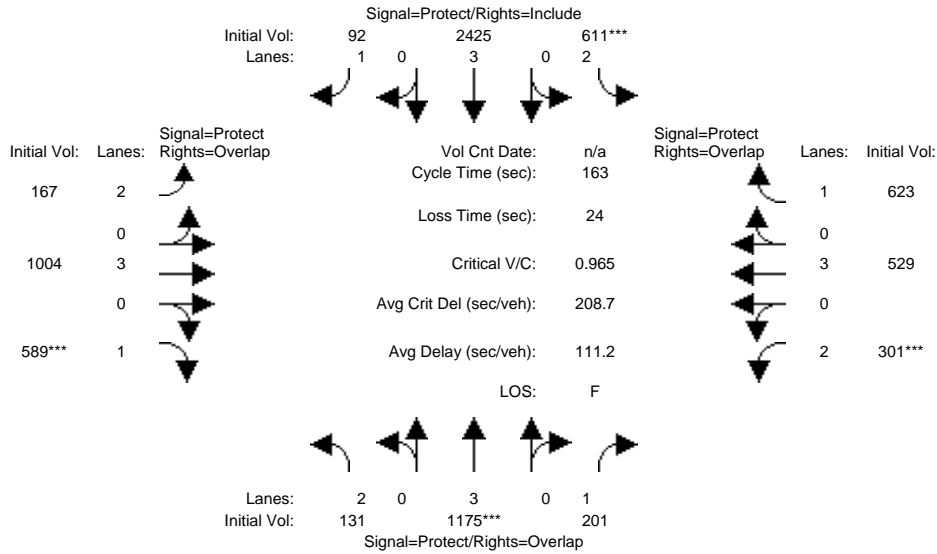
Capacity Analysis Module:												
Vol/Sat:	0.09	0.38	0.19	0.17	0.16	0.06	0.07	0.12	0.12	0.10	0.15	0.42
Crit Moves:	****			****			****			****		
Green Time:	21.5	65.2	79.9	21.1	65.2	65.2	15.7	43.9	65.4	14.7	42.8	63.9
Volume/Cap:	0.72	0.97	0.40	1.33	0.42	0.17	0.71	0.45	0.31	1.13	0.57	1.10
Delay/Veh:	77.0	71.1	35.4	237.7	43.0	38.4	82.4	52.6	36.4	171.6	55.7	119.3
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	77.0	71.1	35.4	237.7	43.0	38.4	82.4	52.6	36.4	171.6	55.7	119.3
LOS by Move:	E	E	D	F	D	D	F	D	D	F	E	F
HCM2k95thQ:	15	57	24	43	23	9	15	19	17	27	23	81

Note: Queue reported is the number of cars per lane.

Capitol Expressway LRT Corridor  
San Jose  
Santa Clara County

Level Of Service Computation Report  
2000 HCM Operations (Future Volume Alternative)  
2017 PM NP

Intersection #2: Capitol Expressway & Story Road



Street Name:	Capitol Expressway						Story Road					
	North Bound			South Bound			East Bound			West Bound		
Approach:												
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	5.5	5.8	5.8	5.9	5.8	5.8	6.3	6.1	6.1	6.3	6.2	6.2

Volume Module:												
Base Vol:	131	1175	201	611	2425	92	167	1004	589	301	529	623
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	131	1175	201	611	2425	92	167	1004	589	301	529	623
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	131	1175	201	611	2425	92	167	1004	589	301	529	623
User Adj:	1.00	0.79	1.00	1.00	0.86	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	131	928	201	611	2086	92	167	1004	589	301	529	623
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	131	928	201	611	2086	92	167	1004	589	301	529	623
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	131	928	201	611	2086	92	167	1004	589	301	529	623

Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.83	1.00	0.92	0.60	1.00	0.92	0.83	0.83	0.92	0.83	1.00	0.92
Lanes:	2.00	3.00	1.00	2.00	3.00	1.00	2.00	3.00	1.00	2.00	3.00	1.00
Final Sat.:	3150	5700	1750	2268	5700	1750	3150	4731	1750	3150	5700	1750

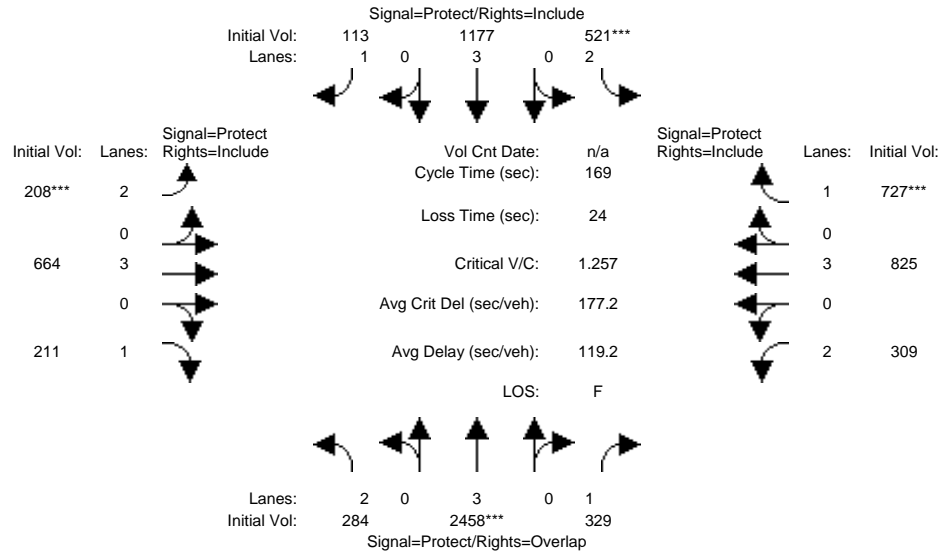
Capacity Analysis Module:												
Vol/Sat:	0.04	0.16	0.11	0.27	0.37	0.05	0.05	0.21	0.34	0.10	0.09	0.36
Crit Moves:	****			****			****			****		
Green Time:	15.5	34.2	50.9	20.1	62.2	62.2	17.7	44.9	60.4	16.7	43.8	60.9
Volume/Cap:	0.44	0.78	0.37	2.18	0.96	0.14	0.49	0.77	0.91	0.93	0.35	0.95
Delay/Veh:	70.7	64.8	47.0	616.3	66.3	37.0	69.5	57.2	65.3	105.5	48.2	73.8
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	70.7	64.8	47.0	616.3	66.3	37.0	69.5	57.2	65.3	105.5	48.2	73.8
LOS by Move:	E	E	D	F	E	D	E	E	E	F	D	E
HCM2k95thQ:	7	26	16	65	54	7	10	30	54	22	13	59

Note: Queue reported is the number of cars per lane.

Capitol Expressway LRT Corridor  
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Intersection #2: Capitol Expressway & Story Road



Street Name:	Capitol Expressway						Story Road					
	North Bound			South Bound			East Bound			West Bound		
Approach:												
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	5.5	5.8	5.8	5.9	5.8	5.8	6.3	6.1	6.1	6.3	6.3	6.2

Volume Module:												
Base Vol:	284	2458	329	521	1177	113	208	664	211	309	825	727
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	284	2458	329	521	1177	113	208	664	211	309	825	727
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	284	2458	329	521	1177	113	208	664	211	309	825	727
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	284	2458	329	521	1177	113	208	664	211	309	825	727
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	284	2458	329	521	1177	113	208	664	211	309	825	727
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	284	2458	329	521	1177	113	208	664	211	309	825	727

Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.83	1.00	0.92	0.83	1.00	0.92	0.83	1.00	0.92	0.83	1.00	0.92
Lanes:	2.00	3.00	1.00	2.00	3.00	1.00	2.00	3.00	1.00	2.00	3.00	1.00
Final Sat.:	3150	5700	1750	3150	5700	1750	3150	5700	1750	3150	5700	1750

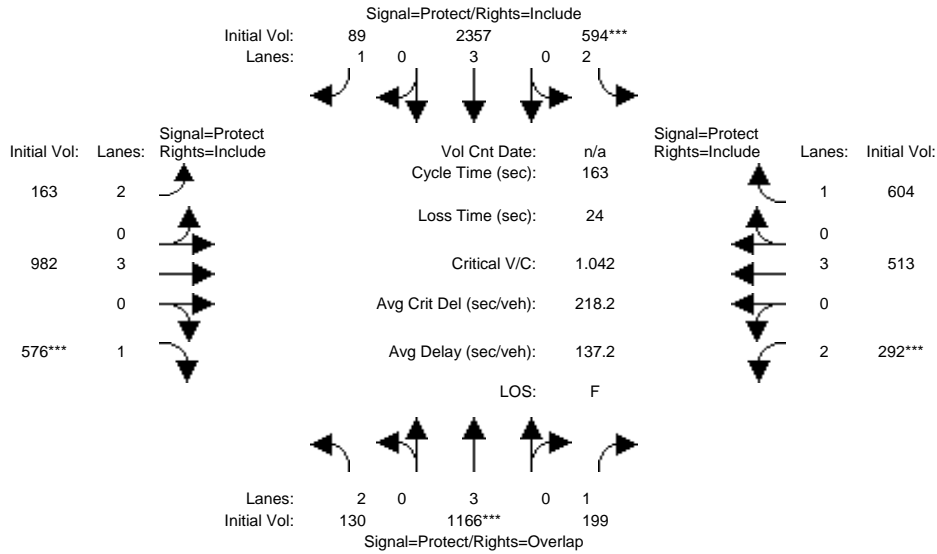
Capacity Analysis Module:												
Vol/Sat:	0.09	0.43	0.19	0.17	0.21	0.06	0.07	0.12	0.12	0.10	0.14	0.42
Crit Moves:	****			****			****			****		
Green Time:	21.5	65.2	65.2	21.1	65.2	65.2	15.7	43.9	43.9	14.7	42.8	42.8
Volume/Cap:	0.71	1.12	0.49	1.32	0.54	0.17	0.71	0.45	0.46	1.13	0.57	1.64
Delay/Veh:	76.5	118	44.7	236.6	45.4	38.4	82.4	52.6	53.4	170.3	55.6	361.2
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	76.5	118	44.7	236.6	45.4	38.4	82.4	52.6	53.4	170.3	55.6	361.2
LOS by Move:	E	F	D	F	D	D	F	D	D	F	E	F
HCM2k95thQ:	15	77	25	42	29	9	15	19	19	27	23	118

Note: Queue reported is the number of cars per lane.

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Intersection #2: Capitol Expressway & Story Road



Street Name:	Capitol Expressway						Story Road					
	North Bound			South Bound			East Bound			West Bound		
Approach:												
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	5.5	5.8	5.8	5.9	5.8	5.8	6.3	6.1	6.1	6.3	6.2	6.2

Volume Module:												
Base Vol:	130	1166	199	594	2357	89	163	982	576	292	513	604
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	130	1166	199	594	2357	89	163	982	576	292	513	604
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	130	1166	199	594	2357	89	163	982	576	292	513	604
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	130	1166	199	594	2357	89	163	982	576	292	513	604
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	130	1166	199	594	2357	89	163	982	576	292	513	604
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	130	1166	199	594	2357	89	163	982	576	292	513	604

Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.83	1.00	0.92	0.60	1.00	0.92	0.83	0.83	0.92	0.83	1.00	0.92
Lanes:	2.00	3.00	1.00	2.00	3.00	1.00	2.00	3.00	1.00	2.00	3.00	1.00
Final Sat.:	3150	5700	1750	2268	5700	1750	3150	4731	1750	3150	5700	1750

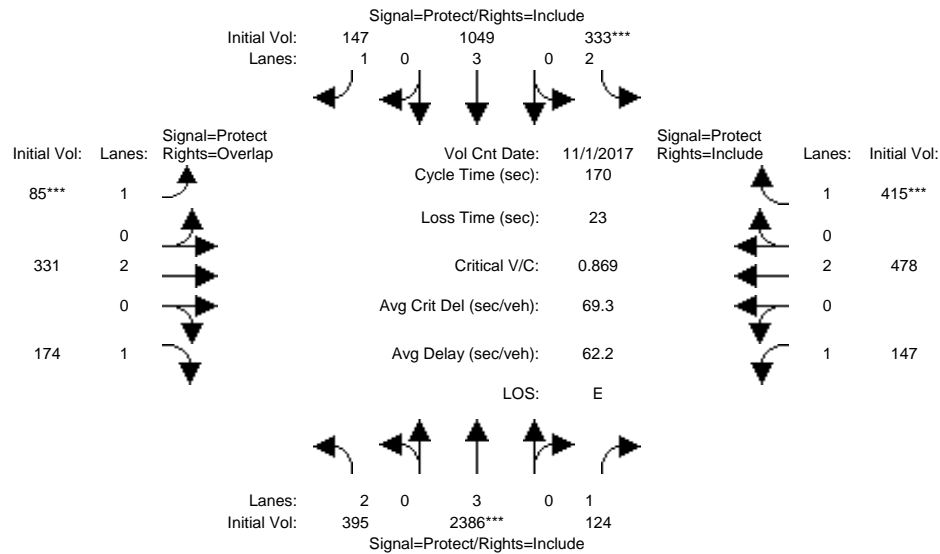
Capacity Analysis Module:												
Vol/Sat:	0.04	0.20	0.11	0.26	0.41	0.05	0.05	0.21	0.33	0.09	0.09	0.35
Crit Moves:	****			****			****			****		
Green Time:	15.5	34.2	50.9	20.1	62.2	62.2	17.7	44.9	44.9	16.7	43.8	43.8
Volume/Cap:	0.43	0.98	0.36	2.12	1.08	0.13	0.48	0.75	1.19	0.90	0.33	1.28
Delay/Veh:	70.6	84.9	47.0	589.2	103	36.9	69.3	56.5	165.5	99.7	48.0	203.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	70.6	84.9	47.0	589.2	103	36.9	69.3	56.5	165.5	99.7	48.0	203.0
LOS by Move:	E	F	D	F	F	D	E	E	F	F	D	F
HCM2k95thQ:	7	35	16	63	70	7	10	29	71	21	13	79

Note: Queue reported is the number of cars per lane.

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Intersection #3: Capitol Expressway & Ocala Avenue



Street Name:	Capitol Expressway						Ocala Avenue					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	5.2	5.8	5.8	5.8	5.8	5.8	5.5	5.7	5.7	5.9	5.7	5.7

Volume Module:	>>	Count	Date:	1 Nov 2017	<<	7:45 - 8:45 AM						
Base Vol:	395	2386	124	333	1049	147	85	331	174	147	478	415
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	395	2386	124	333	1049	147	85	331	174	147	478	415
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	395	2386	124	333	1049	147	85	331	174	147	478	415
User Adj:	1.00	0.86	1.00	1.00	0.79	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	395	2052	124	333	829	147	85	331	174	147	478	415
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	395	2052	124	333	829	147	85	331	174	147	478	415
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	395	2052	124	333	829	147	85	331	174	147	478	415

Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.83	1.00	0.92	0.83	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	2.00	3.00	1.00	2.00	3.00	1.00	1.00	2.00	1.00	1.00	2.00	1.00
Final Sat.:	3150	5700	1750	3150	5700	1750	1750	3800	1750	1750	3800	1750

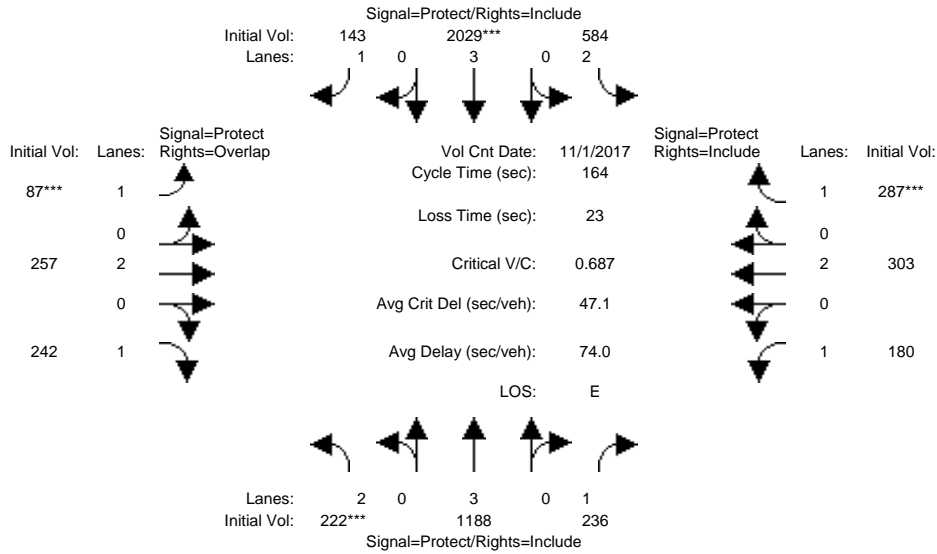
Capacity Analysis Module:												
Vol/Sat:	0.13	0.36	0.07	0.11	0.15	0.08	0.05	0.09	0.10	0.08	0.13	0.24
Crit Moves:	****			****			****			****		
Green Time:	24.8	65.2	65.2	18.2	59.2	59.2	14.5	45.3	70.1	18.1	49.3	49.3
Volume/Cap:	0.86	0.94	0.18	0.99	0.42	0.24	0.57	0.33	0.24	0.79	0.43	0.82
Delay/Veh:	89.4	59.9	35.4	121.6	42.9	40.4	89.6	51.0	33.4	102.0	50.3	69.8
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	89.4	59.9	35.4	121.6	42.9	40.4	89.6	51.0	33.4	102.0	50.3	69.8
LOS by Move:	F	E	D	F	D	D	F	D	C	F	D	E
HCM2k95thQ:	22	62	9	22	19	11	10	13	12	17	17	38

Note: Queue reported is the number of cars per lane.

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Intersection #3: Capitol Expressway & Ocala Avenue



Street Name:	Capitol Expressway						Ocala Avenue					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	5.2	5.8	5.8	5.8	5.8	5.8	5.5	5.7	5.7	5.9	5.7	5.7

Volume Module:	>>	Count	Date:	1 Nov 2017	<<	4:50 PM - 5:50 PM						
Base Vol:	222	1188	236	584	2029	143	87	257	242	180	303	287
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	222	1188	236	584	2029	143	87	257	242	180	303	287
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	222	1188	236	584	2029	143	87	257	242	180	303	287
User Adj:	1.00	0.79	1.00	1.00	0.86	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	222	939	236	584	1745	143	87	257	242	180	303	287
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	222	939	236	584	1745	143	87	257	242	180	303	287
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	222	939	236	584	1745	143	87	257	242	180	303	287

Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.83	1.00	0.92	0.83	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	2.00	3.00	1.00	2.00	3.00	1.00	1.00	2.00	1.00	1.00	2.00	1.00
Final Sat.:	3150	5700	1750	3150	5700	1750	1750	3800	1750	1750	3800	1750

Capacity Analysis Module:												
Vol/Sat:	0.07	0.16	0.13	0.19	0.31	0.08	0.05	0.07	0.14	0.10	0.08	0.16
Crit Moves:	***			****			****					****
Green Time:	17.8	45.2	45.2	22.2	74.2	74.2	13.5	29.3	47.1	20.1	36.3	36.3
Volume/Cap:	0.65	0.60	0.49	1.37	0.68	0.18	0.60	0.38	0.48	0.84	0.36	0.74
Delay/Veh:	79.3	53.2	53.3	251.5	36.9	27.3	90.0	60.9	51.6	101.1	55.2	71.5
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	79.3	53.2	53.3	251.5	36.9	27.3	90.0	60.9	51.6	101.1	55.2	71.5
LOS by Move:	E	D	D	F	D	C	F	E	D	F	E	E
HCM2k95thQ:	13	23	18	45	35	9	11	11	19	20	12	26

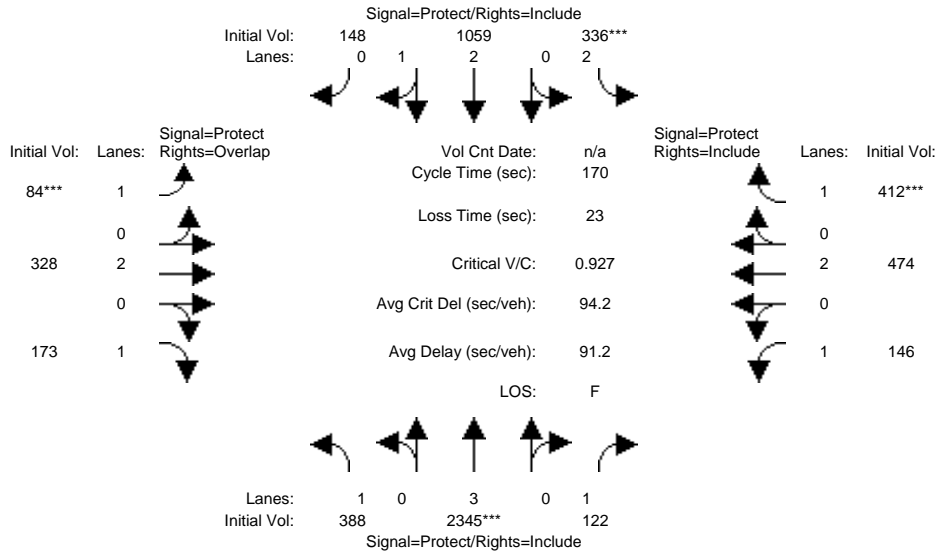
Note: Queue reported is the number of cars per lane.



Capitol Expressway LRT Corridor  
San Jose  
Santa Clara County

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Intersection #3: Capitol Expressway & Ocala Avenue



Street Name:	Capitol Expressway						Ocala Avenue					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	5.2	5.8	5.8	5.8	5.8	5.8	5.5	5.7	5.7	5.9	5.7	5.7

Volume Module:	North Bound			South Bound			East Bound			West Bound		
Base Vol:	388	2345	122	336	1059	148	84	328	173	146	474	412
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	388	2345	122	336	1059	148	84	328	173	146	474	412
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	388	2345	122	336	1059	148	84	328	173	146	474	412
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	388	2345	122	336	1059	148	84	328	173	146	474	412
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	388	2345	122	336	1059	148	84	328	173	146	474	412
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	388	2345	122	336	1059	148	84	328	173	146	474	412

Saturation Flow Module:	North Bound			South Bound			East Bound			West Bound		
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.83	0.99	0.95	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	1.00	3.00	1.00	2.00	2.62	0.38	1.00	2.00	1.00	1.00	2.00	1.00
Final Sat.:	1750	5700	1750	3150	4912	687	1750	3800	1750	1750	3800	1750

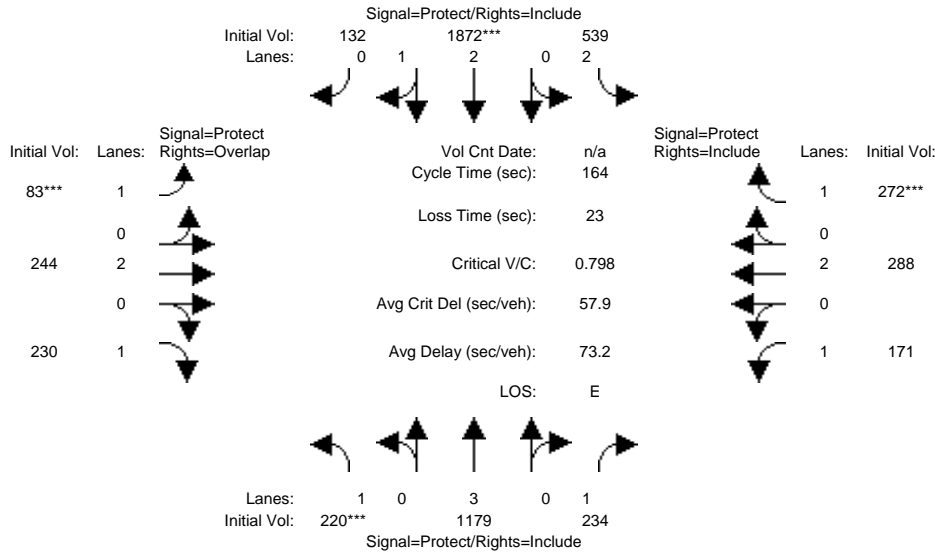
Capacity Analysis Module:	North Bound			South Bound			East Bound			West Bound		
Vol/Sat:	0.22	0.41	0.07	0.11	0.22	0.22	0.05	0.09	0.10	0.08	0.12	0.24
Crit Moves:	****			****			****			****		
Green Time:	24.8	65.2	65.2	18.2	59.2	59.2	14.5	45.3	70.1	18.1	49.3	49.3
Volume/Cap:	1.52	1.07	0.18	1.00	0.62	0.62	0.56	0.32	0.24	0.78	0.43	0.81
Delay/Veh:	325.5	94.6	35.3	123.9	47.5	47.5	89.2	50.9	33.4	101.3	50.2	69.3
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	325.5	94.6	35.3	123.9	47.5	47.5	89.2	50.9	33.4	101.3	50.2	69.3
LOS by Move:	F	F	D	F	D	D	F	D	C	F	D	E
HCM2k95thQ:	63	81	9	22	29	29	10	12	12	17	17	37

Note: Queue reported is the number of cars per lane.

Capitol Expressway LRT Corridor  
San Jose  
Santa Clara County

Level Of Service Computation Report  
2000 HCM Operations (Future Volume Alternative)  
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Intersection #3: Capitol Expressway & Ocala Avenue



Street Name:	Capitol Expressway						Ocala Avenue					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	5.2	5.8	5.8	5.8	5.8	5.8	5.5	5.7	5.7	5.9	5.7	5.7

Volume Module:	North Bound			South Bound			East Bound			West Bound		
Base Vol:	220	1179	234	539	1872	132	83	244	230	171	288	272
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	220	1179	234	539	1872	132	83	244	230	171	288	272
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	220	1179	234	539	1872	132	83	244	230	171	288	272
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	220	1179	234	539	1872	132	83	244	230	171	288	272
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	220	1179	234	539	1872	132	83	244	230	171	288	272
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	220	1179	234	539	1872	132	83	244	230	171	288	272

Saturation Flow Module:	North Bound			South Bound			East Bound			West Bound		
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.83	0.98	0.95	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	1.00	3.00	1.00	2.00	2.80	0.20	1.00	2.00	1.00	1.00	2.00	1.00
Final Sat.:	1750	5700	1750	3150	5231	369	1750	3800	1750	1750	3800	1750

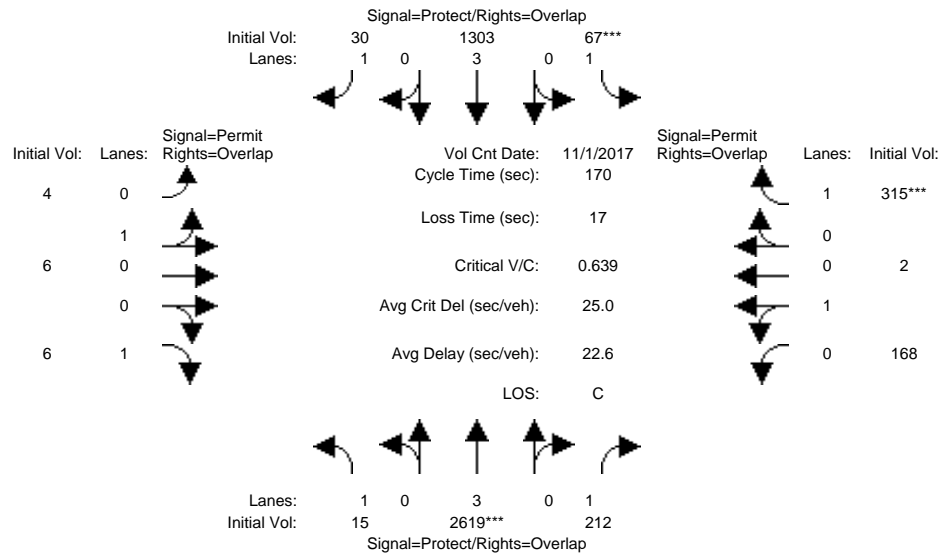
Capacity Analysis Module:	North Bound			South Bound			East Bound			West Bound		
Vol/Sat:	0.13	0.21	0.13	0.17	0.36	0.36	0.05	0.06	0.13	0.10	0.08	0.16
Crit Moves:	***			****			****			****		
Green Time:	17.8	45.2	45.2	22.2	74.2	74.2	13.5	29.3	47.1	20.1	36.3	36.3
Volume/Cap:	1.16	0.75	0.49	1.26	0.79	0.79	0.58	0.36	0.46	0.80	0.34	0.70
Delay/Veh:	187.6	57.6	53.1	207.2	40.9	40.9	88.2	60.6	51.0	95.7	54.9	69.1
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	187.6	57.6	53.1	207.2	40.9	40.9	88.2	60.6	51.0	95.7	54.9	69.1
LOS by Move:	F	E	D	F	D	D	F	E	D	F	D	E
HCM2k95thQ:	28	31	18	38	43	43	10	11	18	19	11	24

Note: Queue reported is the number of cars per lane.

Capitol Expressway LRT Corridor  
San Jose  
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2000 HCM Operations (Future Volume Alternative)  
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Intersection #4: Capitol Expressway and Cunningham Avenue



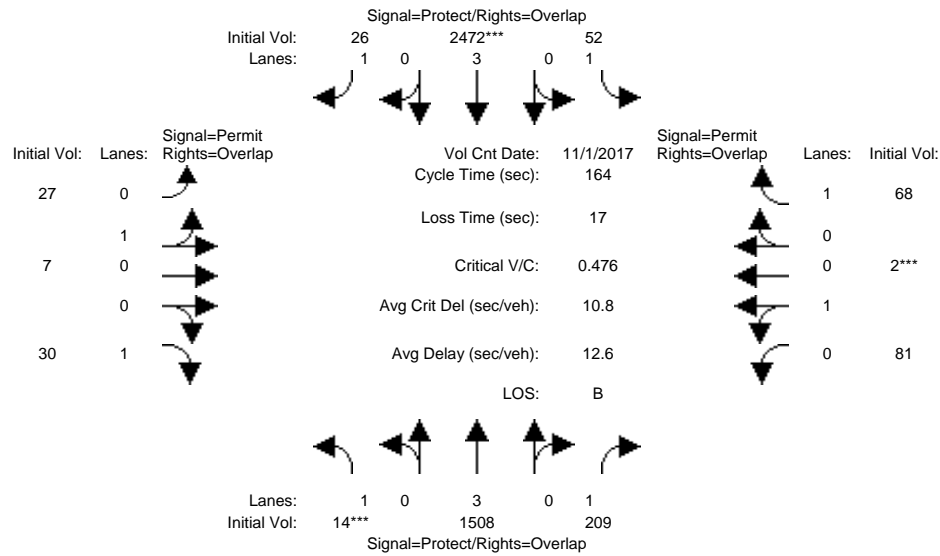
Street Name:	Capitol Expressway						Cunningham Avenue					
	North Bound			South Bound			East Bound			West Bound		
Approach:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	5.0	5.8	5.8	5.2	5.8	5.8	5.6	5.6	5.6	5.6	5.6	5.6
Volume Module: >> Count	15	2619	212	67	1303	30	4	6	6	168	2	315
Base Vol:	15	2619	212	67	1303	30	4	6	6	168	2	315
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	15	2619	212	67	1303	30	4	6	6	168	2	315
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	15	2619	212	67	1303	30	4	6	6	168	2	315
User Adj:	1.00	0.86	1.00	1.00	0.79	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	15	2252	212	67	1029	30	4	6	6	168	2	315
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	15	2252	212	67	1029	30	4	6	6	168	2	315
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	15	2252	212	67	1029	30	4	6	6	168	2	315
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.95	0.95	0.92	0.95	0.95	0.92
Lanes:	1.00	3.00	1.00	1.00	3.00	1.00	0.40	0.60	1.00	0.99	0.01	1.00
Final Sat.:	1750	5700	1750	1750	5700	1750	720	1080	1750	1779	21	1750
Capacity Analysis Module:												
Vol/Sat:	0.01	0.40	0.12	0.04	0.18	0.02	0.01	0.01	0.00	0.09	0.09	0.18
Crit Moves:	****			****								
Green Time:	6.0	116	116.2	9.8	119	119.2	27.4	27.4	33.4	27.4	27.4	37.2
Volume/Cap:	0.24	0.58	0.18	0.66	0.26	0.02	0.03	0.03	0.02	0.59	0.59	0.82
Delay/Veh:	88.9	14.7	10.0	108.1	9.4	7.8	60.4	60.4	55.2	74.4	74.4	81.1
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	88.9	14.7	10.0	108.1	9.4	7.8	60.4	60.4	55.2	74.4	74.4	81.1
LOS by Move:	F	B	B	F	A	A	E	E	E	E	E	F
HCM2k95thQ:	2	34	9	8	12	1	1	1	1	16	16	30

Note: Queue reported is the number of cars per lane.

Capitol Expressway LRT Corridor  
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2000 HCM Operations (Future Volume Alternative)  
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Intersection #4: Capitol Expressway and Cunningham Avenue



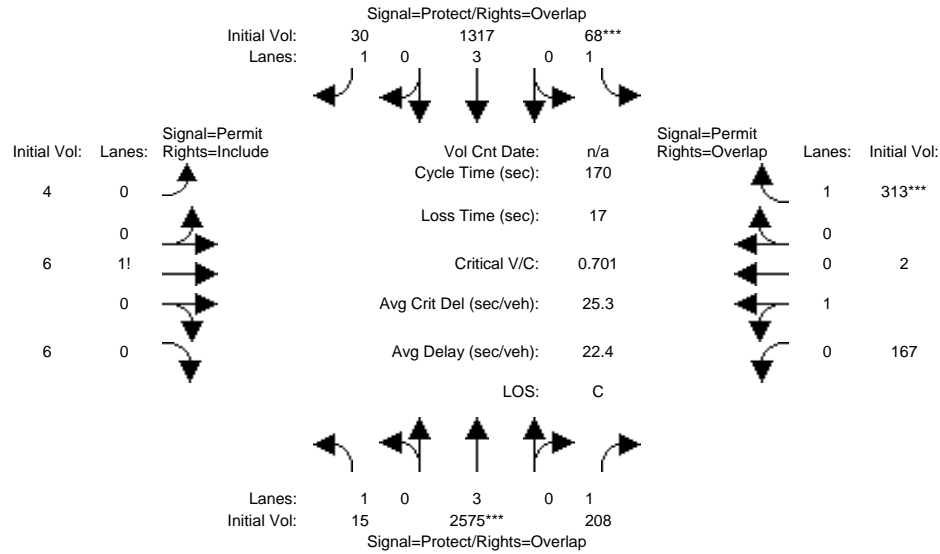
Street Name:	Capitol Expressway						Cunningham Avenue					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	5.0	5.8	5.8	5.2	5.8	5.8	5.6	5.6	5.6	5.6	5.6	5.6
Volume Module: >> Count	Date: 1 Nov 2017 << 4:50 PM - 5:50 PM											
Base Vol:	14	1508	209	52	2472	26	27	7	30	81	2	68
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	14	1508	209	52	2472	26	27	7	30	81	2	68
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	14	1508	209	52	2472	26	27	7	30	81	2	68
User Adj:	1.00	0.79	1.00	1.00	0.86	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	14	1191	209	52	2126	26	27	7	30	81	2	68
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	14	1191	209	52	2126	26	27	7	30	81	2	68
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	14	1191	209	52	2126	26	27	7	30	81	2	68
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.95	0.95	0.92	0.95	0.95	0.92
Lanes:	1.00	3.00	1.00	1.00	3.00	1.00	0.79	0.21	1.00	0.98	0.02	1.00
Final Sat.:	1750	5700	1750	1750	5700	1750	1429	371	1750	1757	43	1750
Capacity Analysis Module:												
Vol/Sat:	0.01	0.21	0.12	0.03	0.37	0.01	0.02	0.02	0.02	0.05	0.05	0.04
Crit Moves:	***			****						****		
Green Time:	3.0	119	119.2	8.8	125	125.2	19.4	19.4	22.4	19.4	19.4	28.2
Volume/Cap:	0.44	0.29	0.16	0.55	0.49	0.02	0.16	0.16	0.13	0.39	0.39	0.23
Delay/Veh:	117.6	7.9	7.2	97.1	7.7	4.7	66.6	66.6	63.3	72.1	72.1	60.2
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	117.6	7.9	7.2	97.1	7.7	4.7	66.6	66.6	63.3	72.1	72.1	60.2
LOS by Move:	F	A	A	F	A	A	E	E	E	E	E	E
HCM2k95thQ:	2	13	7	6	23	1	4	4	3	9	9	7

Note: Queue reported is the number of cars per lane.

Capitol Expressway LRT Corridor  
San Jose  
Santa Clara County

Level Of Service Computation Report  
2000 HCM Operations (Future Volume Alternative)  
2017 AM PP

Intersection #4: Capitol Expressway and Cunningham Avenue



Street Name:	Capitol Expressway						Cunningham Avenue					
	North Bound			South Bound			East Bound			West Bound		
Approach:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	5.0	5.8	5.8	5.2	5.8	5.8	5.6	5.6	5.6	5.6	5.6	5.6

Volume Module:												
Base Vol:	15	2575	208	68	1317	30	4	6	6	167	2	313
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	15	2575	208	68	1317	30	4	6	6	167	2	313
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	15	2575	208	68	1317	30	4	6	6	167	2	313
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	15	2575	208	68	1317	30	4	6	6	167	2	313
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	15	2575	208	68	1317	30	4	6	6	167	2	313
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	15	2575	208	68	1317	30	4	6	6	167	2	313

Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.92	0.92	0.92	0.95	0.95	0.92
Lanes:	1.00	3.00	1.00	1.00	3.00	1.00	0.25	0.37	0.38	0.99	0.01	1.00
Final Sat.:	1750	5700	1750	1750	5700	1750	438	656	656	1779	21	1750

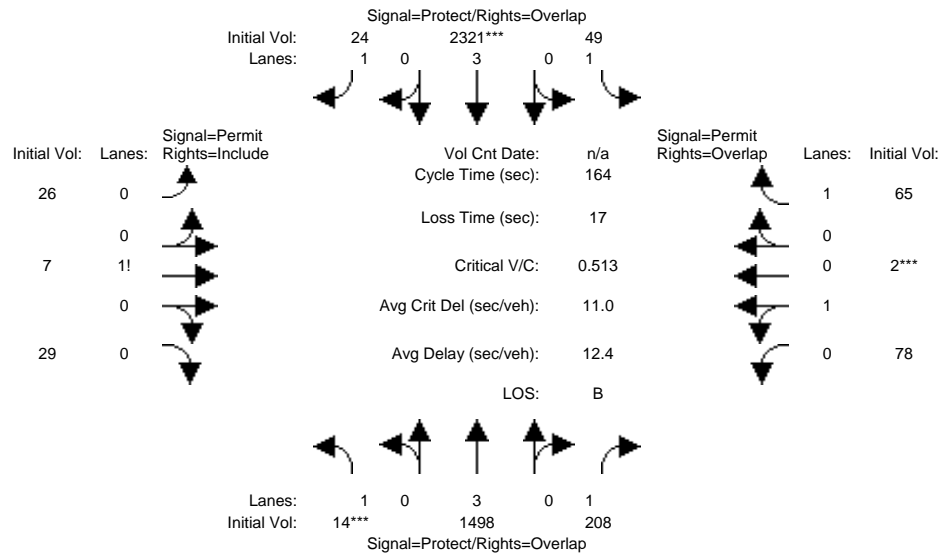
Capacity Analysis Module:												
Vol/Sat:	0.01	0.45	0.12	0.04	0.23	0.02	0.01	0.01	0.01	0.09	0.09	0.18
Crit Moves:	****			****						****		
Green Time:	6.0	116	116.2	9.8	119	119.2	27.4	27.4	27.4	27.4	27.4	37.2
Volume/Cap:	0.24	0.66	0.17	0.67	0.33	0.02	0.06	0.06	0.06	0.58	0.58	0.82
Delay/Veh:	88.9	16.4	10.0	109.2	10.1	7.8	60.7	60.7	60.7	74.3	74.3	80.5
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	88.9	16.4	10.0	109.2	10.1	7.8	60.7	60.7	60.7	74.3	74.3	80.5
LOS by Move:	F	B	A	F	B	A	E	E	E	E	E	F
HCM2k95thQ:	2	44	9	8	16	1	2	2	2	16	16	30

Note: Queue reported is the number of cars per lane.

Capitol Expressway LRT Corridor  
San Jose  
Santa Clara County

Level Of Service Computation Report  
2000 HCM Operations (Future Volume Alternative)  
2017 PM PP

Intersection #4: Capitol Expressway and Cunningham Avenue



Street Name:	Capitol Expressway						Cunningham Avenue					
	North Bound			South Bound			East Bound			West Bound		
Approach:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	5.0	5.8	5.8	5.2	5.8	5.8	5.6	5.6	5.6	5.6	5.6	5.6

Volume Module:												
Base Vol:	14	1498	208	49	2321	24	26	7	29	78	2	65
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	14	1498	208	49	2321	24	26	7	29	78	2	65
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	14	1498	208	49	2321	24	26	7	29	78	2	65
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	14	1498	208	49	2321	24	26	7	29	78	2	65
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	14	1498	208	49	2321	24	26	7	29	78	2	65
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	14	1498	208	49	2321	24	26	7	29	78	2	65

Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.92	0.92	0.92	0.95	0.95	0.92
Lanes:	1.00	3.00	1.00	1.00	3.00	1.00	0.42	0.11	0.47	0.97	0.03	1.00
Final Sat.:	1750	5700	1750	1750	5700	1750	734	198	819	1755	45	1750

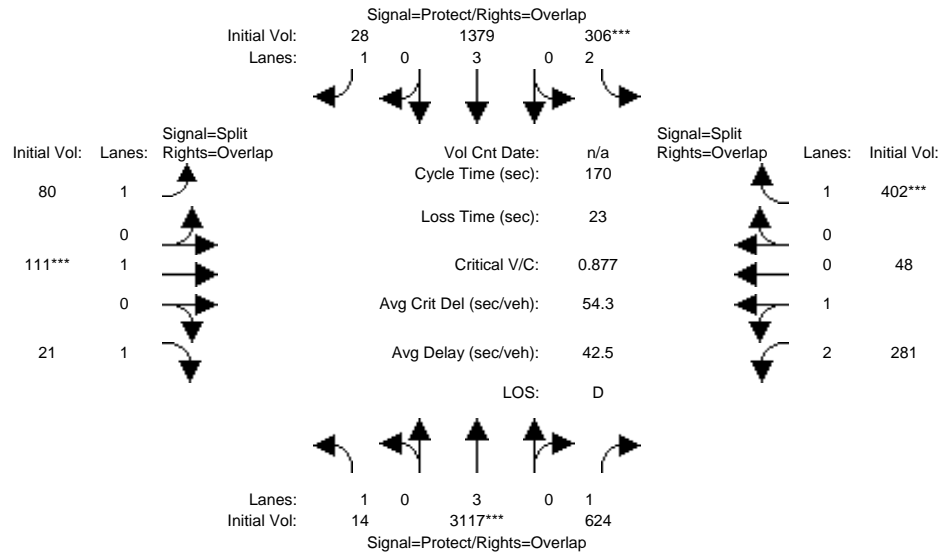
Capacity Analysis Module:												
Vol/Sat:	0.01	0.26	0.12	0.03	0.41	0.01	0.04	0.04	0.04	0.04	0.04	0.04
Crit Moves:	***			****						****		
Green Time:	3.0	119	119.2	8.8	125	125.2	19.4	19.4	22.4	19.4	19.4	28.2
Volume/Cap:	0.44	0.36	0.16	0.52	0.53	0.02	0.30	0.30	0.26	0.38	0.38	0.22
Delay/Veh:	117.6	8.5	7.2	94.7	8.2	4.7	69.8	69.8	66.0	71.7	71.7	60.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	117.6	8.5	7.2	94.7	8.2	4.7	69.8	69.8	66.0	71.7	71.7	60.0
LOS by Move:	F	A	A	F	A	A	E	E	E	E	E	E
HCM2k95thQ:	2	17	8	6	25	1	7	7	7	8	8	7

Note: Queue reported is the number of cars per lane.

Capitol Expressway LRT Corridor  
San Jose  
Santa Clara County

Level Of Service Computation Report  
2000 HCM Operations (Future Volume Alternative)  
2023 AM NP

Intersection #1: Capitol Expressway & Capitol Avenue



Street Name:	Capitol Expressway						Capitol Avenue / Excalibur Drive					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	5.2	5.8	5.8	5.9	5.8	5.8	5.5	5.5	5.5	5.9	5.9	5.9

Volume Module:	North Bound			South Bound			East Bound			West Bound		
Base Vol:	14	3117	624	306	1379	28	80	111	21	281	48	402
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	14	3117	624	306	1379	28	80	111	21	281	48	402
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	14	3117	624	306	1379	28	80	111	21	281	48	402
User Adj:	1.00	0.86	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	14	2681	624	306	1379	28	80	111	21	281	48	402
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	14	2681	624	306	1379	28	80	111	21	281	48	402
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	14	2681	624	306	1379	28	80	111	21	281	48	402

Saturation Flow Module:	North Bound			South Bound			East Bound			West Bound		
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.83	1.00	0.92	0.92	1.00	0.92	0.85	0.95	0.92
Lanes:	1.00	3.00	1.00	2.00	3.00	1.00	1.00	1.00	1.00	2.60	0.40	1.00
Final Sat.:	1750	5700	1750	3150	5700	1750	1750	1900	1750	4222	721	1750

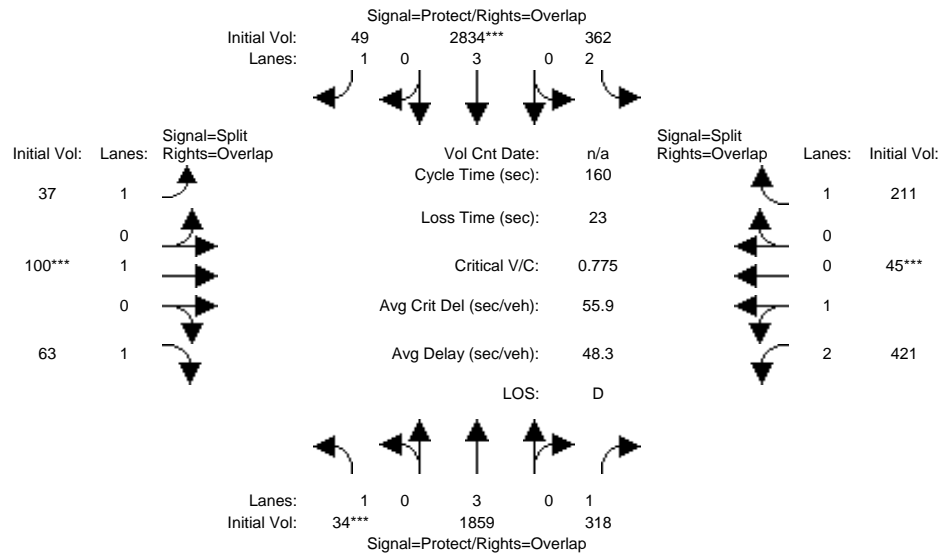
Capacity Analysis Module:	North Bound			South Bound			East Bound			West Bound		
Vol/Sat:	0.01	0.47	0.36	0.10	0.24	0.02	0.05	0.06	0.01	0.07	0.07	0.23
Crit Moves:	****			****			****			****		
Green Time:	5.0	85.2	111.3	20.1	104	119.7	15.5	15.5	17.3	26.1	26.1	46.2
Volume/Cap:	0.27	0.94	0.54	0.82	0.39	0.02	0.50	0.64	0.12	0.43	0.43	0.85
Delay/Veh:	83.6	46.8	16.3	86.8	16.9	7.6	76.1	82.4	69.7	65.6	65.6	71.6
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	83.6	46.8	16.3	86.8	16.9	7.6	76.1	82.4	69.7	65.6	65.6	71.6
LOS by Move:	F	D	B	F	B	A	E	F	E	E	E	E
HCM2k95thQ:	1	64	30	21	21	1	9	13	2	12	12	39

Note: Queue reported is the number of cars per lane.

Capitol Expressway LRT Corridor  
San Jose  
Santa Clara County

Level Of Service Computation Report  
2000 HCM Operations (Future Volume Alternative)  
2023 PM NP

Intersection #1: Capitol Expressway & Capitol Avenue



Street Name:	Capitol Expressway						Capitol Avenue / Excalibur Drive					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	5.2	5.8	5.8	5.9	5.8	5.8	5.5	5.5	5.5	5.9	5.9	5.9

Volume Module:												
Base Vol:	34	1859	318	362	2834	49	37	100	63	421	45	211
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	34	1859	318	362	2834	49	37	100	63	421	45	211
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	34	1859	318	362	2834	49	37	100	63	421	45	211
User Adj:	1.00	0.79	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	34	1469	318	362	2834	49	37	100	63	421	45	211
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	34	1469	318	362	2834	49	37	100	63	421	45	211
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	34	1469	318	362	2834	49	37	100	63	421	45	211

Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.83	1.00	0.92	0.92	1.00	0.92	0.86	0.95	0.92
Lanes:	1.00	3.00	1.00	2.00	3.00	1.00	1.00	1.00	1.00	2.73	0.27	1.00
Final Sat.:	1750	5700	1750	3150	5700	1750	1750	1900	1750	4468	478	1750

Capacity Analysis Module:												
Vol/Sat:	0.02	0.26	0.18	0.11	0.50	0.03	0.02	0.05	0.04	0.09	0.09	0.12
Crit Moves:	***			***			***			***		
Green Time:	5.8	63.2	99.3	26.1	83.2	95.7	12.5	12.5	18.3	36.1	36.1	62.2
Volume/Cap:	0.54	0.65	0.29	0.70	0.96	0.05	0.27	0.67	0.31	0.42	0.42	0.31
Delay/Veh:	84.4	36.2	7.5	67.7	55.0	18.5	70.5	83.3	66.0	53.2	53.2	34.2
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	84.4	36.2	7.5	67.7	55.0	18.5	70.5	83.3	66.0	53.2	53.2	34.2
LOS by Move:	F	D	A	E	D	B	E	F	E	D	D	C
HCM2k95thQ:	3	28	7	21	76	3	4	11	6	14	14	14

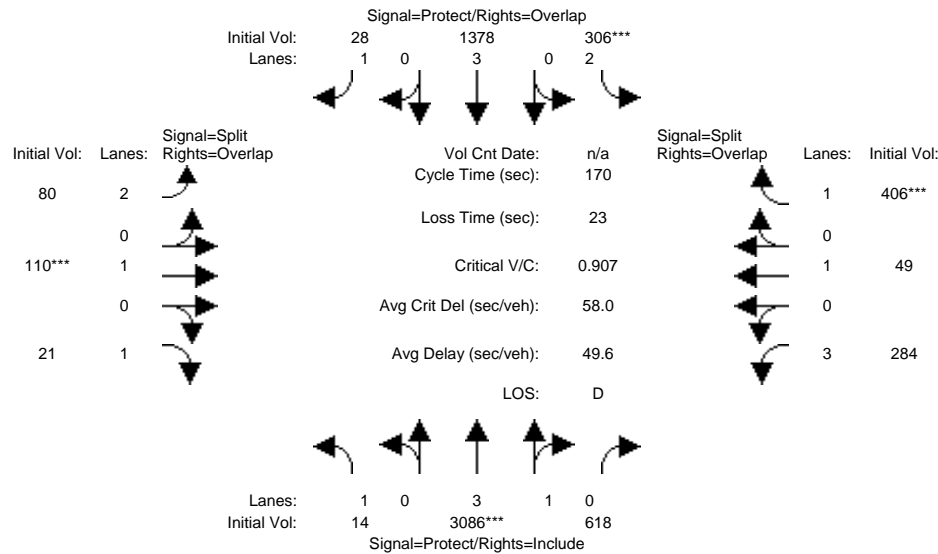
Note: Queue reported is the number of cars per lane.



Capitol Expressway LRT Corridor  
San Jose  
Santa Clara County

Level Of Service Computation Report  
2000 HCM Operations (Future Volume Alternative)  
2023 AM PP

Intersection #1: Capitol Expressway & Capitol Avenue



Street Name:	Capitol Expressway						Capitol Avenue / Excalibur Drive					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	5.2	5.8	5.8	5.9	5.8	5.8	5.5	5.5	5.5	5.9	5.9	5.9

Volume Module:	North Bound			South Bound			East Bound			West Bound		
Base Vol:	14	3086	618	306	1378	28	80	110	21	284	49	406
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	14	3086	618	306	1378	28	80	110	21	284	49	406
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	14	3086	618	306	1378	28	80	110	21	284	49	406
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	14	3086	618	306	1378	28	80	110	21	284	49	406
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	14	3086	618	306	1378	28	80	110	21	284	49	406
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	14	3086	618	306	1378	28	80	110	21	284	49	406

Saturation Flow Module:	North Bound			South Bound			East Bound			West Bound		
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.99	0.95	0.83	1.00	0.92	0.83	1.00	0.92	0.80	1.00	0.92
Lanes:	1.00	3.31	0.69	2.00	3.00	1.00	2.00	1.00	1.00	3.00	1.00	1.00
Final Sat.:	1750	6247	1251	3150	5700	1750	3150	1900	1750	4551	1900	1750

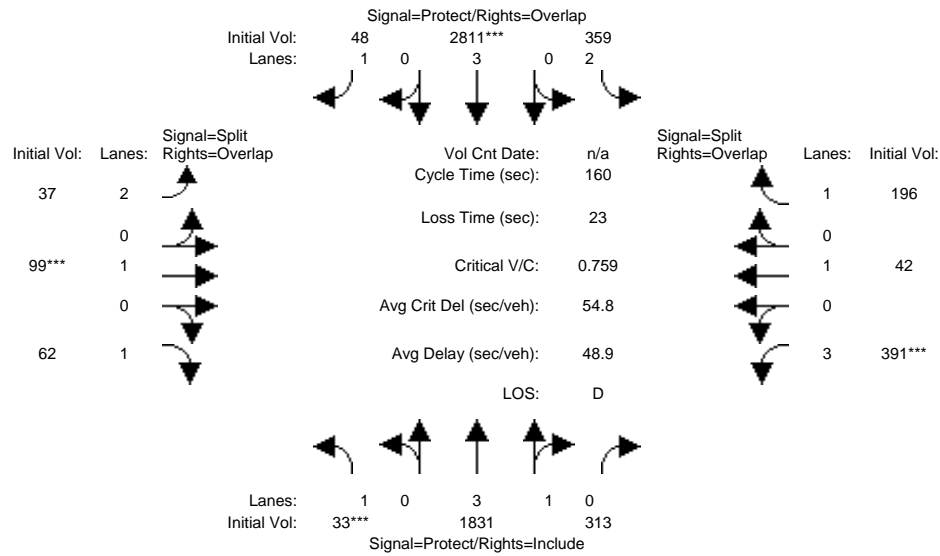
Capacity Analysis Module:	North Bound			South Bound			East Bound			West Bound		
Vol/Sat:	0.01	0.49	0.49	0.10	0.24	0.02	0.03	0.06	0.01	0.06	0.03	0.23
Crit Moves:	****			****			****			****		
Green Time:	5.0	85.2	85.2	20.1	104	119.7	15.5	15.5	17.3	26.1	26.1	46.2
Volume/Cap:	0.27	0.99	0.99	0.82	0.39	0.02	0.28	0.63	0.12	0.41	0.17	0.85
Delay/Veh:	83.6	53.3	53.3	86.8	16.9	7.6	72.6	82.0	69.7	65.3	62.8	72.6
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	83.6	53.3	53.3	86.8	16.9	7.6	72.6	82.0	69.7	65.3	62.8	72.6
LOS by Move:	F	D	D	F	B	A	E	F	E	E	E	E
HCM2k95thQ:	1	71	71	21	21	1	5	12	2	11	4	40

Note: Queue reported is the number of cars per lane.

Capitol Expressway LRT Corridor  
San Jose  
Santa Clara County

Level Of Service Computation Report  
2000 HCM Operations (Future Volume Alternative)  
2023 PM PP

Intersection #1: Capitol Expressway & Capitol Avenue



Street Name:	Capitol Expressway						Capitol Avenue / Excalibur Drive					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	5.2	5.8	5.8	5.9	5.8	5.8	5.5	5.5	5.5	5.9	5.9	5.9

Volume Module:												
Base Vol:	33	1831	313	359	2811	48	37	99	62	391	42	196
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	33	1831	313	359	2811	48	37	99	62	391	42	196
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	33	1831	313	359	2811	48	37	99	62	391	42	196
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	33	1831	313	359	2811	48	37	99	62	391	42	196
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	33	1831	313	359	2811	48	37	99	62	391	42	196
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	33	1831	313	359	2811	48	37	99	62	391	42	196

Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.99	0.95	0.83	1.00	0.92	0.83	1.00	0.92	0.80	1.00	0.92
Lanes:	1.00	3.39	0.61	2.00	3.00	1.00	2.00	1.00	1.00	3.00	1.00	1.00
Final Sat.:	1750	6403	1095	3150	5700	1750	3150	1900	1750	4551	1900	1750

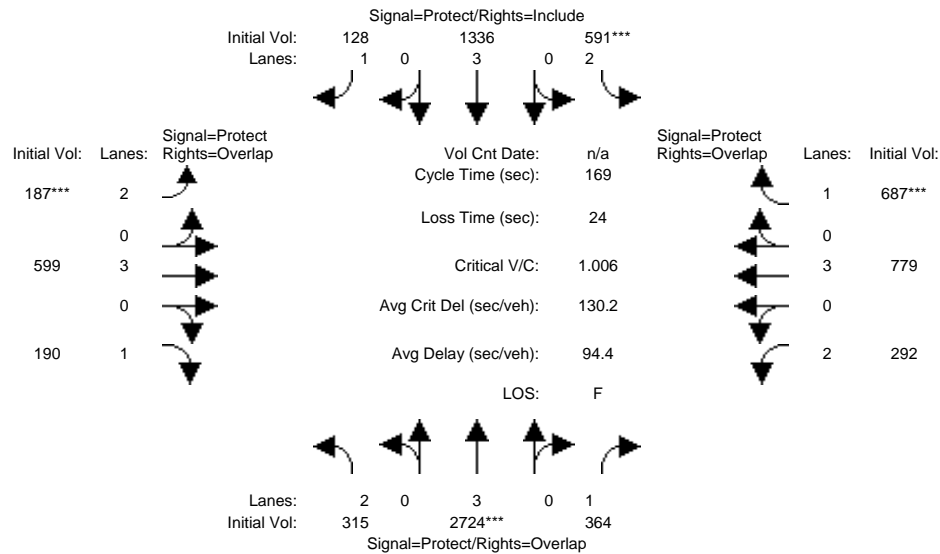
Capacity Analysis Module:												
Vol/Sat:	0.02	0.29	0.29	0.11	0.49	0.03	0.01	0.05	0.04	0.09	0.02	0.11
Crit Moves:	***			****			****			****		
Green Time:	5.8	63.2	63.2	26.1	83.2	95.7	12.5	12.5	18.3	36.1	36.1	62.2
Volume/Cap:	0.52	0.72	0.72	0.70	0.95	0.05	0.15	0.67	0.31	0.38	0.10	0.29
Delay/Veh:	83.2	37.8	37.8	67.5	53.7	18.5	69.1	82.8	65.9	52.7	49.2	33.9
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	83.2	37.8	37.8	67.5	53.7	18.5	69.1	82.8	65.9	52.7	49.2	33.9
LOS by Move:	F	D	D	E	D	B	E	F	E	D	D	C
HCM2k95thQ:	3	32	32	21	75	3	2	11	6	13	3	13

Note: Queue reported is the number of cars per lane.

Capitol Expressway LRT Corridor  
San Jose  
Santa Clara County

Level Of Service Computation Report  
2000 HCM Operations (Future Volume Alternative)  
2023 AM NP

Intersection #2: Capitol Expressway & Story Road



Street Name:	Capitol Expressway						Story Road					
	North Bound			South Bound			East Bound			West Bound		
Approach:												
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	5.5	5.8	5.8	5.9	5.8	5.8	6.3	6.1	6.1	6.3	6.2	6.2

Volume Module:												
Base Vol:	315	2724	364	591	1336	128	187	599	190	292	779	687
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	315	2724	364	591	1336	128	187	599	190	292	779	687
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	315	2724	364	591	1336	128	187	599	190	292	779	687
User Adj:	1.00	0.86	1.00	1.00	0.79	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	315	2343	364	591	1055	128	187	599	190	292	779	687
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	315	2343	364	591	1055	128	187	599	190	292	779	687
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	315	2343	364	591	1055	128	187	599	190	292	779	687

Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.83	1.00	0.92	0.83	1.00	0.92	0.83	1.00	0.92	0.83	1.00	0.92
Lanes:	2.00	3.00	1.00	2.00	3.00	1.00	2.00	3.00	1.00	2.00	3.00	1.00
Final Sat.:	3150	5700	1750	3150	5700	1750	3150	5700	1750	3150	5700	1750

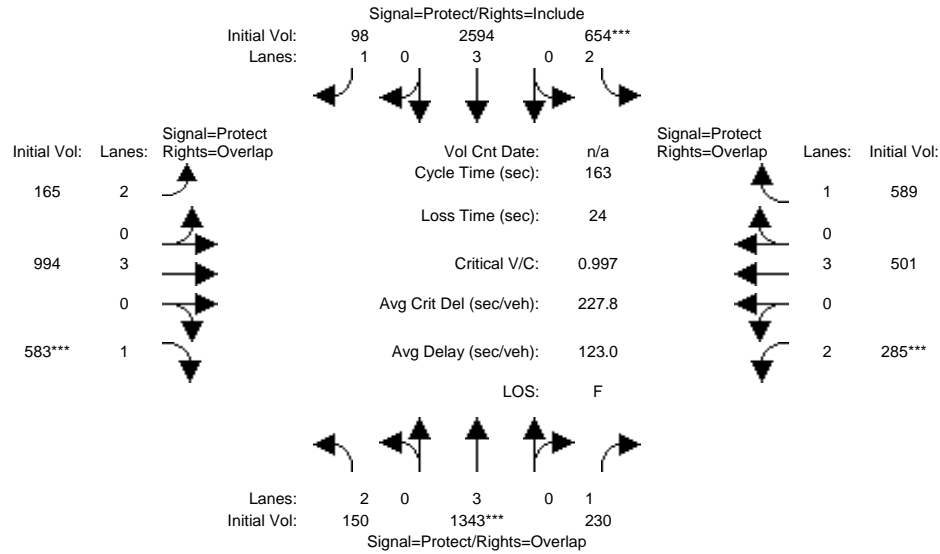
Capacity Analysis Module:												
Vol/Sat:	0.10	0.41	0.21	0.19	0.19	0.07	0.06	0.11	0.11	0.09	0.14	0.39
Crit Moves:	****			****			****			****		
Green Time:	21.5	65.2	79.9	21.1	65.2	65.2	15.7	43.9	65.4	14.7	42.8	63.9
Volume/Cap:	0.79	1.07	0.44	1.50	0.48	0.19	0.64	0.40	0.28	1.07	0.54	1.04
Delay/Veh:	81.4	97.7	36.2	312.9	44.2	38.8	78.6	51.9	35.8	149.9	55.0	97.8
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	81.4	97.7	36.2	312.9	44.2	38.8	78.6	51.9	35.8	149.9	55.0	97.8
LOS by Move:	F	F	D	F	D	D	E	D	D	F	D	F
HCM2k95thQ:	17	68	26	52	26	10	13	17	15	24	21	72

Note: Queue reported is the number of cars per lane.

Capitol Expressway LRT Corridor  
San Jose  
Santa Clara County

Level Of Service Computation Report  
2000 HCM Operations (Future Volume Alternative)  
2023 PM NP

Intersection #2: Capitol Expressway & Story Road



Street Name:	Capitol Expressway						Story Road					
	North Bound			South Bound			East Bound			West Bound		
Approach:												
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	5.5	5.8	5.8	5.9	5.8	5.8	6.3	6.1	6.1	6.3	6.2	6.2

Volume Module:												
Base Vol:	150	1343	230	654	2594	98	165	994	583	285	501	589
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	150	1343	230	654	2594	98	165	994	583	285	501	589
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	150	1343	230	654	2594	98	165	994	583	285	501	589
User Adj:	1.00	0.79	1.00	1.00	0.86	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	150	1061	230	654	2231	98	165	994	583	285	501	589
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	150	1061	230	654	2231	98	165	994	583	285	501	589
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	150	1061	230	654	2231	98	165	994	583	285	501	589

Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.83	1.00	0.92	0.60	1.00	0.92	0.83	0.83	0.92	0.83	1.00	0.92
Lanes:	2.00	3.00	1.00	2.00	3.00	1.00	2.00	3.00	1.00	2.00	3.00	1.00
Final Sat.:	3150	5700	1750	2268	5700	1750	3150	4731	1750	3150	5700	1750

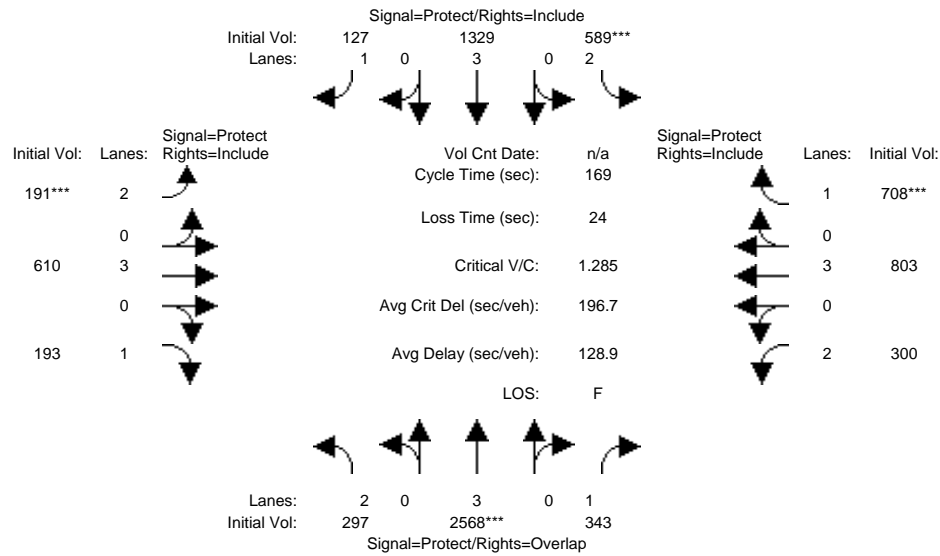
Capacity Analysis Module:												
Vol/Sat:	0.05	0.19	0.13	0.29	0.39	0.06	0.05	0.21	0.33	0.09	0.09	0.34
Crit Moves:	****			****			****			****		
Green Time:	15.5	34.2	50.9	20.1	62.2	62.2	17.7	44.9	60.4	16.7	43.8	60.9
Volume/Cap:	0.50	0.89	0.42	2.34	1.03	0.15	0.48	0.76	0.90	0.88	0.33	0.90
Delay/Veh:	71.4	71.6	48.0	684.9	82.7	37.1	69.4	56.9	63.9	95.7	47.9	63.8
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	71.4	71.6	48.0	684.9	82.7	37.1	69.4	56.9	63.9	95.7	47.9	63.8
LOS by Move:	E	E	D	F	F	D	E	E	E	F	D	E
HCM2k95thQ:	8	31	19	71	61	7	10	29	53	20	13	53

Note: Queue reported is the number of cars per lane.

Capitol Expressway LRT Corridor  
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Santa Clara County

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Intersection #2: Capitol Expressway & Story Road



Street Name:	Capitol Expressway						Story Road					
	North Bound			South Bound			East Bound			West Bound		
Approach:												
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	5.5	5.8	5.8	5.9	5.8	5.8	6.3	6.1	6.1	6.3	6.3	6.2

Volume Module:												
Base Vol:	297	2568	343	589	1329	127	191	610	193	300	803	708
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	297	2568	343	589	1329	127	191	610	193	300	803	708
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	297	2568	343	589	1329	127	191	610	193	300	803	708
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	297	2568	343	589	1329	127	191	610	193	300	803	708
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	297	2568	343	589	1329	127	191	610	193	300	803	708
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	297	2568	343	589	1329	127	191	610	193	300	803	708

Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.83	1.00	0.92	0.83	1.00	0.92	0.83	1.00	0.92	0.83	1.00	0.92
Lanes:	2.00	3.00	1.00	2.00	3.00	1.00	2.00	3.00	1.00	2.00	3.00	1.00
Final Sat.:	3150	5700	1750	3150	5700	1750	3150	5700	1750	3150	5700	1750

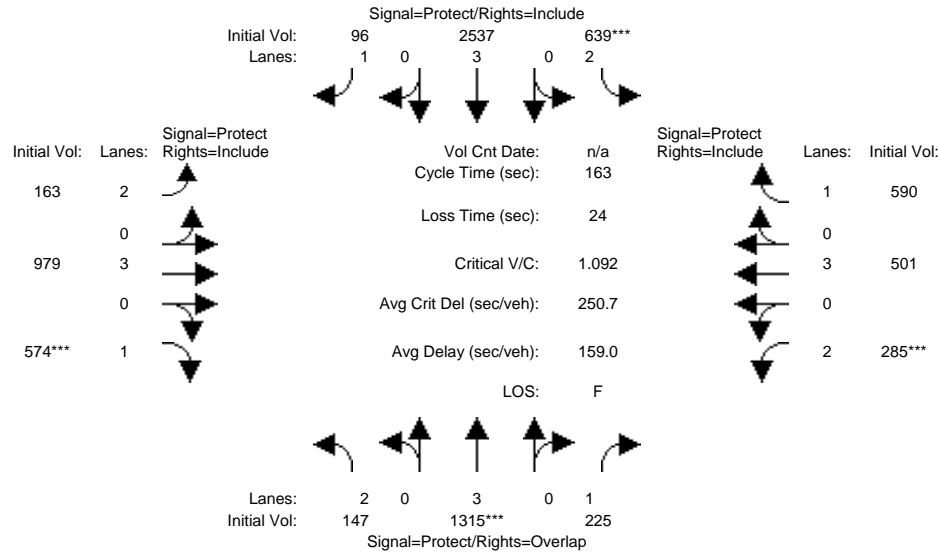
Capacity Analysis Module:												
Vol/Sat:	0.09	0.45	0.20	0.19	0.23	0.07	0.06	0.11	0.11	0.10	0.14	0.40
Crit Moves:	****			****			****			****		
Green Time:	21.5	65.2	65.2	21.1	65.2	65.2	15.7	43.9	43.9	14.7	42.8	42.8
Volume/Cap:	0.74	1.17	0.51	1.50	0.60	0.19	0.65	0.41	0.42	1.09	0.56	1.60
Delay/Veh:	78.3	139	45.2	310.6	47.2	38.8	79.2	52.0	52.7	159.2	55.3	342.3
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	78.3	139	45.2	310.6	47.2	38.8	79.2	52.0	52.7	159.2	55.3	342.3
LOS by Move:	E	F	D	F	D	D	E	D	D	F	E	F
HCM2k95thQ:	16	86	26	52	33	10	13	17	18	25	22	112

Note: Queue reported is the number of cars per lane.

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Intersection #2: Capitol Expressway & Story Road



Street Name:	Capitol Expressway						Story Road					
	North Bound			South Bound			East Bound			West Bound		
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	5.5	5.8	5.8	5.9	5.8	5.8	6.3	6.1	6.1	6.3	6.2	6.2

Volume Module:												
Base Vol:	147	1315	225	639	2537	96	163	979	574	285	501	590
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	147	1315	225	639	2537	96	163	979	574	285	501	590
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	147	1315	225	639	2537	96	163	979	574	285	501	590
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	147	1315	225	639	2537	96	163	979	574	285	501	590
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	147	1315	225	639	2537	96	163	979	574	285	501	590
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	147	1315	225	639	2537	96	163	979	574	285	501	590

Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.83	1.00	0.92	0.60	1.00	0.92	0.83	0.83	0.92	0.83	1.00	0.92
Lanes:	2.00	3.00	1.00	2.00	3.00	1.00	2.00	3.00	1.00	2.00	3.00	1.00
Final Sat.:	3150	5700	1750	2268	5700	1750	3150	4731	1750	3150	5700	1750

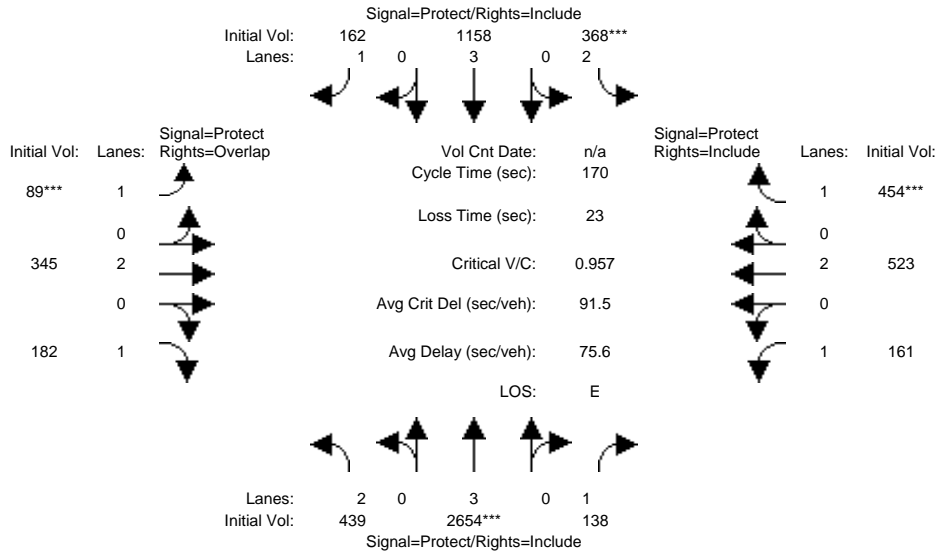
Capacity Analysis Module:												
Vol/Sat:	0.05	0.23	0.13	0.28	0.45	0.05	0.05	0.21	0.33	0.09	0.09	0.34
Crit Moves:	****			****			****			****		
Green Time:	15.5	34.2	50.9	20.1	62.2	62.2	17.7	44.9	44.9	16.7	43.8	43.8
Volume/Cap:	0.49	1.10	0.41	2.29	1.17	0.14	0.48	0.75	1.19	0.88	0.33	1.25
Delay/Veh:	71.3	123	47.9	660.9	137	37.1	69.3	56.4	163.9	95.7	47.9	190.7
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	71.3	123	47.9	660.9	137	37.1	69.3	56.4	163.9	95.7	47.9	190.7
LOS by Move:	E	F	D	F	F	D	E	E	F	F	D	F
HCM2k95thQ:	8	43	18	69	83	7	10	29	70	20	13	76

Note: Queue reported is the number of cars per lane.

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Intersection #3: Capitol Expressway & Ocala Avenue



Street Name:	Capitol Expressway						Ocala Avenue					
	North Bound			South Bound			East Bound			West Bound		
Approach:												
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	5.2	5.8	5.8	5.8	5.8	5.8	5.5	5.7	5.7	5.9	5.7	5.7

Volume Module:												
Base Vol:	439	2654	138	368	1158	162	89	345	182	161	523	454
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	439	2654	138	368	1158	162	89	345	182	161	523	454
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	439	2654	138	368	1158	162	89	345	182	161	523	454
User Adj:	1.00	0.86	1.00	1.00	0.79	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	439	2282	138	368	915	162	89	345	182	161	523	454
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	439	2282	138	368	915	162	89	345	182	161	523	454
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	439	2282	138	368	915	162	89	345	182	161	523	454

Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.83	1.00	0.92	0.83	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	2.00	3.00	1.00	2.00	3.00	1.00	1.00	2.00	1.00	1.00	2.00	1.00
Final Sat.:	3150	5700	1750	3150	5700	1750	1750	3800	1750	1750	3800	1750

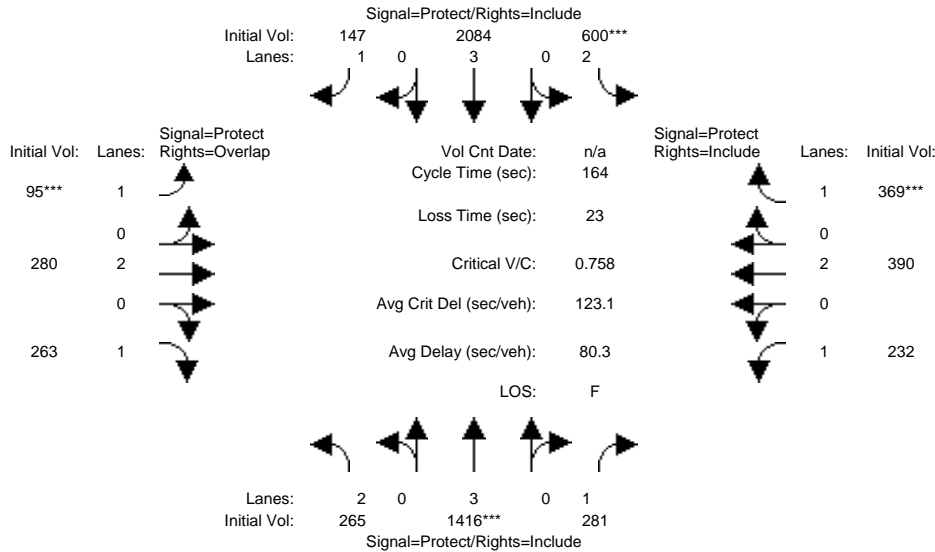
Capacity Analysis Module:												
Vol/Sat:	0.14	0.40	0.08	0.12	0.16	0.09	0.05	0.09	0.10	0.09	0.14	0.26
Crit Moves:	****			****			****			****		
Green Time:	24.8	65.2	65.2	18.2	59.2	59.2	14.5	45.3	70.1	18.1	49.3	49.3
Volume/Cap:	0.96	1.04	0.21	1.09	0.46	0.27	0.60	0.34	0.25	0.86	0.47	0.89
Delay/Veh:	104.2	84.4	35.8	151.4	43.8	40.9	91.3	51.2	33.6	112.6	51.2	78.8
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	104.2	84.4	35.8	151.4	43.8	40.9	91.3	51.2	33.6	112.6	51.2	78.8
LOS by Move:	F	F	D	F	D	D	F	D	C	F	D	E
HCM2k95thQ:	26	77	10	26	21	12	11	13	12	19	19	44

Note: Queue reported is the number of cars per lane.

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Intersection #3: Capitol Expressway & Ocala Avenue



Street Name:	Capitol Expressway						Ocala Avenue					
	North Bound			South Bound			East Bound			West Bound		
Approach:												
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	5.2	5.8	5.8	5.8	5.8	5.8	5.5	5.7	5.7	5.9	5.7	5.7

Volume Module:												
Base Vol:	265	1416	281	600	2084	147	95	280	263	232	390	369
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	265	1416	281	600	2084	147	95	280	263	232	390	369
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	265	1416	281	600	2084	147	95	280	263	232	390	369
User Adj:	1.00	0.79	1.00	1.00	0.86	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	265	1119	281	600	1792	147	95	280	263	232	390	369
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	265	1119	281	600	1792	147	95	280	263	232	390	369
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	265	1119	281	600	1792	147	95	280	263	232	390	369

Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.83	1.00	0.92	0.83	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	2.00	3.00	1.00	2.00	3.00	1.00	1.00	2.00	1.00	1.00	2.00	1.00
Final Sat.:	3150	5700	1750	3150	5700	1750	1750	3800	1750	1750	3800	1750

Capacity Analysis Module:												
Vol/Sat:	0.08	0.20	0.16	0.19	0.31	0.08	0.05	0.07	0.15	0.13	0.10	0.21
Crit Moves:	****			****			****			****		
Green Time:	17.8	45.2	45.2	22.2	74.2	74.2	13.5	29.3	47.1	20.1	36.3	36.3
Volume/Cap:	0.78	0.71	0.58	1.41	0.70	0.19	0.66	0.41	0.52	1.08	0.46	0.95
Delay/Veh:	86.9	56.3	56.3	267.5	37.4	27.4	94.3	61.6	52.9	156.7	57.2	98.3
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	86.9	56.3	56.3	267.5	37.4	27.4	94.3	61.6	52.9	156.7	57.2	98.3
LOS by Move:	F	E	E	F	D	C	F	E	D	F	E	F
HCM2k95thQ:	15	29	22	48	36	9	12	12	20	30	15	39

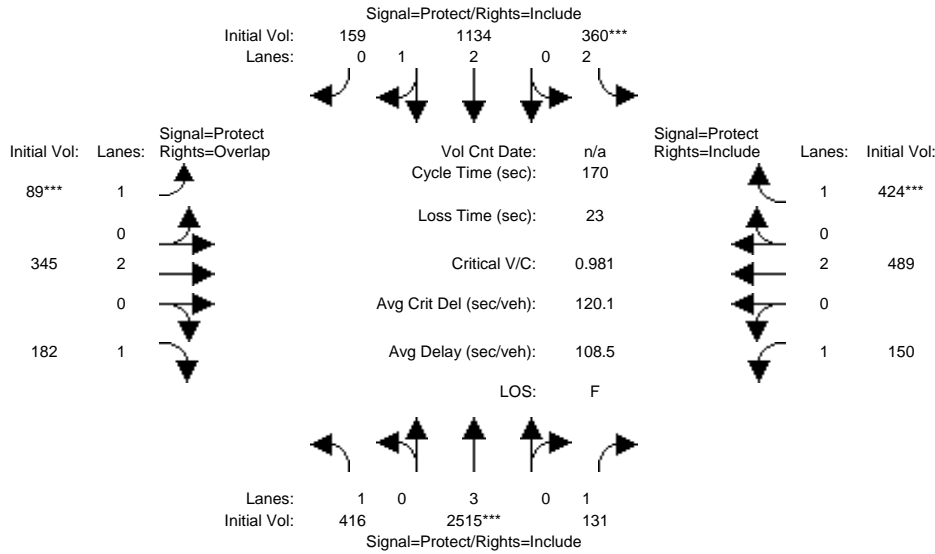
Note: Queue reported is the number of cars per lane.



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Santa Clara County

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Intersection #3: Capitol Expressway & Ocala Avenue



Street Name:	Capitol Expressway						Ocala Avenue					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	5.2	5.8	5.8	5.8	5.8	5.8	5.5	5.7	5.7	5.9	5.7	5.7

Volume Module:	North Bound			South Bound			East Bound			West Bound		
Base Vol:	416	2515	131	360	1134	159	89	345	182	150	489	424
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	416	2515	131	360	1134	159	89	345	182	150	489	424
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	416	2515	131	360	1134	159	89	345	182	150	489	424
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	416	2515	131	360	1134	159	89	345	182	150	489	424
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	416	2515	131	360	1134	159	89	345	182	150	489	424
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	416	2515	131	360	1134	159	89	345	182	150	489	424

Saturation Flow Module:	North Bound			South Bound			East Bound			West Bound		
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.83	0.99	0.95	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	1.00	3.00	1.00	2.00	2.62	0.38	1.00	2.00	1.00	1.00	2.00	1.00
Final Sat.:	1750	5700	1750	3150	4910	689	1750	3800	1750	1750	3800	1750

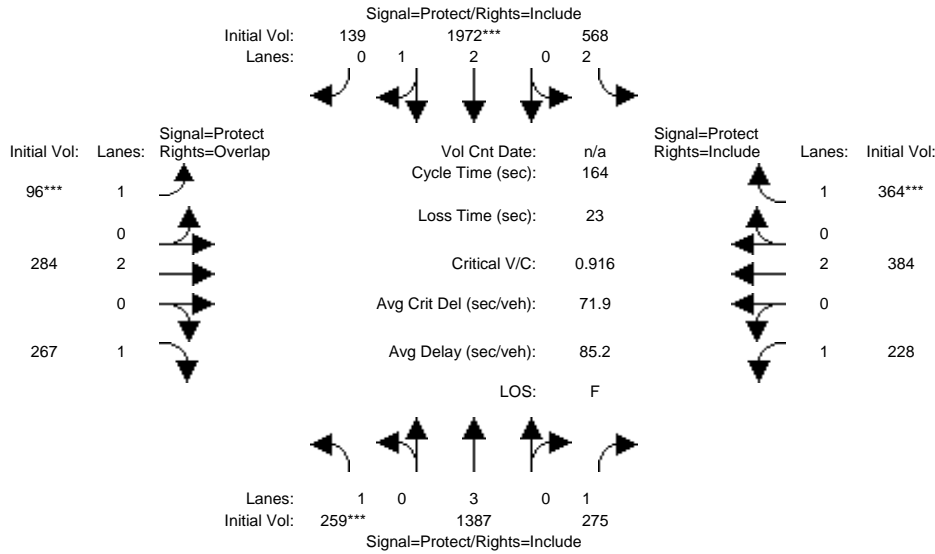
Capacity Analysis Module:	North Bound			South Bound			East Bound			West Bound		
Vol/Sat:	0.24	0.44	0.07	0.11	0.23	0.23	0.05	0.09	0.10	0.09	0.13	0.24
Crit Moves:	****			****			****			****		
Green Time:	24.8	65.2	65.2	18.2	59.2	59.2	14.5	45.3	70.1	18.1	49.3	49.3
Volume/Cap:	1.63	1.15	0.20	1.07	0.66	0.66	0.60	0.34	0.25	0.80	0.44	0.84
Delay/Veh:	373.0	126	35.6	143.8	48.8	48.8	91.3	51.2	33.6	104.0	50.5	71.5
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	373.0	126	35.6	143.8	48.8	48.8	91.3	51.2	33.6	104.0	50.5	71.5
LOS by Move:	F	F	D	F	D	D	F	D	C	F	D	E
HCM2k95thQ:	71	94	9	24	32	32	11	13	12	18	18	39

Note: Queue reported is the number of cars per lane.

Capitol Expressway LRT Corridor  
San Jose  
Santa Clara County

Level Of Service Computation Report  
2000 HCM Operations (Future Volume Alternative)  
2023 PM PP

Intersection #3: Capitol Expressway & Ocala Avenue



Street Name:	Capitol Expressway						Ocala Avenue					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	5.2	5.8	5.8	5.8	5.8	5.8	5.5	5.7	5.7	5.9	5.7	5.7

Volume Module:	259	1387	275	568	1972	139	96	284	267	228	384	364
Base Vol:	259	1387	275	568	1972	139	96	284	267	228	384	364
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	259	1387	275	568	1972	139	96	284	267	228	384	364
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	259	1387	275	568	1972	139	96	284	267	228	384	364
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	259	1387	275	568	1972	139	96	284	267	228	384	364
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	259	1387	275	568	1972	139	96	284	267	228	384	364
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	259	1387	275	568	1972	139	96	284	267	228	384	364

Saturation Flow Module:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.83	0.98	0.95	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	1.00	3.00	1.00	2.00	2.80	0.20	1.00	2.00	1.00	1.00	2.00	1.00
Final Sat.:	1750	5700	1750	3150	5231	369	1750	3800	1750	1750	3800	1750

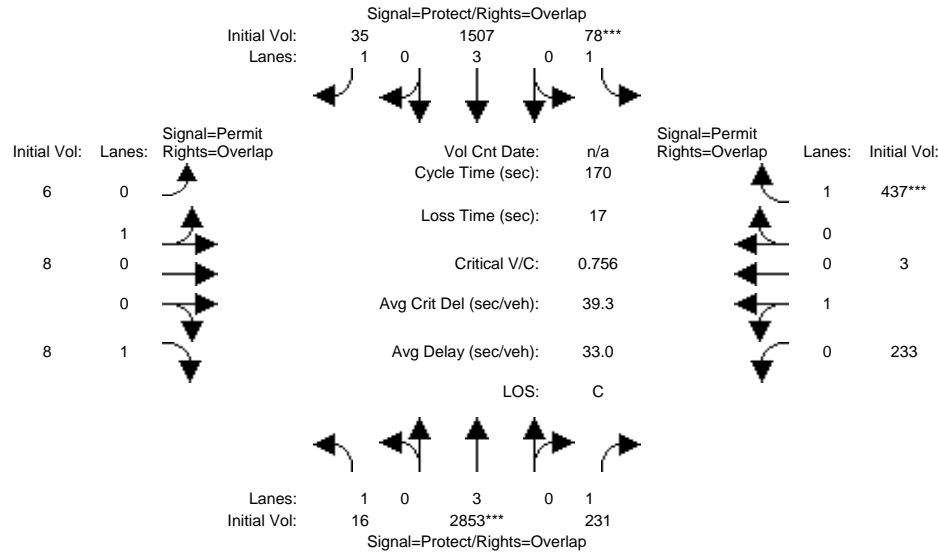
Capacity Analysis Module:	0.15	0.24	0.16	0.18	0.38	0.38	0.05	0.07	0.15	0.13	0.10	0.21
Vol/Sat:	0.15	0.24	0.16	0.18	0.38	0.38	0.05	0.07	0.15	0.13	0.10	0.21
Crit Moves:	***			***			***			***		
Green Time:	17.8	45.2	45.2	22.2	74.2	74.2	13.5	29.3	47.1	20.1	36.3	36.3
Volume/Cap:	1.36	0.88	0.57	1.33	0.83	0.83	0.67	0.42	0.53	1.06	0.46	0.94
Delay/Veh:	266.9	64.4	55.9	235.5	42.9	42.9	94.9	61.7	53.1	150.9	57.1	95.6
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	266.9	64.4	55.9	235.5	42.9	42.9	94.9	61.7	53.1	150.9	57.1	95.6
LOS by Move:	F	E	E	F	D	D	F	E	D	F	E	F
HCM2k95thQ:	38	40	22	43	47	47	12	12	21	29	15	38

Note: Queue reported is the number of cars per lane.

Capitol Expressway LRT Corridor  
San Jose  
Santa Clara County

Level Of Service Computation Report  
2000 HCM Operations (Future Volume Alternative)  
2023 AM NP

Intersection #4: Capitol Expressway and Cunningham Avenue



Street Name:	Capitol Expressway						Cunningham Avenue					
	North Bound			South Bound			East Bound			West Bound		
Approach:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	5.0	5.8	5.8	5.2	5.8	5.8	5.6	5.6	5.6	5.6	5.6	5.6

Volume Module:												
Base Vol:	16	2853	231	78	1507	35	6	8	8	233	3	437
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	16	2853	231	78	1507	35	6	8	8	233	3	437
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	16	2853	231	78	1507	35	6	8	8	233	3	437
User Adj:	1.00	0.86	1.00	1.00	0.79	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	16	2454	231	78	1191	35	6	8	8	233	3	437
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	16	2454	231	78	1191	35	6	8	8	233	3	437
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	16	2454	231	78	1191	35	6	8	8	233	3	437

Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.95	0.95	0.92	0.95	0.95	0.92
Lanes:	1.00	3.00	1.00	1.00	3.00	1.00	0.43	0.57	1.00	0.99	0.01	1.00
Final Sat.:	1750	5700	1750	1750	5700	1750	771	1029	1750	1777	23	1750

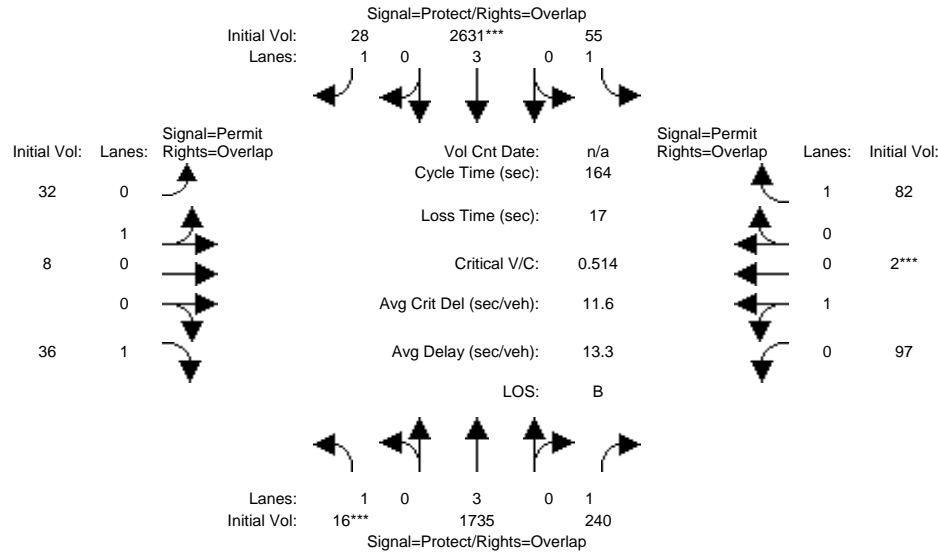
Capacity Analysis Module:												
Vol/Sat:	0.01	0.43	0.13	0.04	0.21	0.02	0.01	0.01	0.00	0.13	0.13	0.25
Crit Moves:	****			****						****		
Green Time:	6.0	116	116.2	9.8	119	119.2	27.4	27.4	33.4	27.4	27.4	37.2
Volume/Cap:	0.26	0.63	0.19	0.77	0.30	0.03	0.05	0.05	0.02	0.81	0.81	1.14
Delay/Veh:	89.7	15.7	10.2	122.0	9.8	7.8	60.6	60.6	55.3	90.3	90.3	156.7
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	89.7	15.7	10.2	122.0	9.8	7.8	60.6	60.6	55.3	90.3	90.3	156.7
LOS by Move:	F	B	B	F	A	A	E	E	E	F	F	F
HCM2k95thQ:	2	40	10	10	14	2	2	2	1	24	24	55

Note: Queue reported is the number of cars per lane.

Capitol Expressway LRT Corridor  
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Santa Clara County

Level Of Service Computation Report  
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Intersection #4: Capitol Expressway and Cunningham Avenue



Street Name:	Capitol Expressway						Cunningham Avenue					
	North Bound			South Bound			East Bound			West Bound		
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	5.0	5.8	5.8	5.2	5.8	5.8	5.6	5.6	5.6	5.6	5.6	5.6

Volume Module:												
Base Vol:	16	1735	240	55	2631	28	32	8	36	97	2	82
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	16	1735	240	55	2631	28	32	8	36	97	2	82
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	16	1735	240	55	2631	28	32	8	36	97	2	82
User Adj:	1.00	0.79	1.00	1.00	0.86	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	16	1371	240	55	2263	28	32	8	36	97	2	82
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	16	1371	240	55	2263	28	32	8	36	97	2	82
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	16	1371	240	55	2263	28	32	8	36	97	2	82

Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.95	0.95	0.92	0.95	0.95	0.92
Lanes:	1.00	3.00	1.00	1.00	3.00	1.00	0.80	0.20	1.00	0.98	0.02	1.00
Final Sat.:	1750	5700	1750	1750	5700	1750	1440	360	1750	1764	36	1750

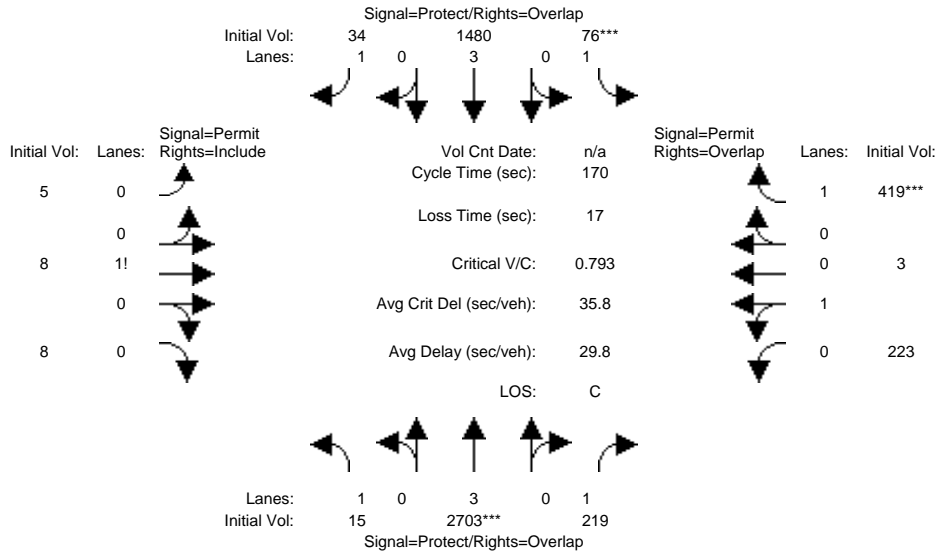
Capacity Analysis Module:												
Vol/Sat:	0.01	0.24	0.14	0.03	0.40	0.02	0.02	0.02	0.02	0.06	0.06	0.05
Crit Moves:	***			***						***		
Green Time:	3.0	119	119.2	8.8	125	125.2	19.4	19.4	22.4	19.4	19.4	28.2
Volume/Cap:	0.50	0.33	0.19	0.59	0.52	0.02	0.19	0.19	0.15	0.46	0.46	0.27
Delay/Veh:	126.3	8.3	7.4	99.8	8.1	4.7	67.1	67.1	63.7	74.6	74.6	61.2
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	126.3	8.3	7.4	99.8	8.1	4.7	67.1	67.1	63.7	74.6	74.6	61.2
LOS by Move:	F	A	A	F	A	A	E	E	E	E	E	E
HCM2k95thQ:	2	15	9	6	25	1	4	4	4	10	10	8

Note: Queue reported is the number of cars per lane.

Capitol Expressway LRT Corridor  
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Santa Clara County

Level Of Service Computation Report  
2000 HCM Operations (Future Volume Alternative)  
2023 AM PP

Intersection #4: Capitol Expressway and Cunningham Avenue



Street Name:	Capitol Expressway						Cunningham Avenue					
	North Bound			South Bound			East Bound			West Bound		
Approach:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	5.0	5.8	5.8	5.2	5.8	5.8	5.6	5.6	5.6	5.6	5.6	5.6

Volume Module:												
Base Vol:	15	2703	219	76	1480	34	5	8	8	223	3	419
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	15	2703	219	76	1480	34	5	8	8	223	3	419
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	15	2703	219	76	1480	34	5	8	8	223	3	419
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	15	2703	219	76	1480	34	5	8	8	223	3	419
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	15	2703	219	76	1480	34	5	8	8	223	3	419
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	15	2703	219	76	1480	34	5	8	8	223	3	419

Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.92	0.92	0.92	0.95	0.95	0.92
Lanes:	1.00	3.00	1.00	1.00	3.00	1.00	0.24	0.38	0.38	0.99	0.01	1.00
Final Sat.:	1750	5700	1750	1750	5700	1750	417	667	667	1776	24	1750

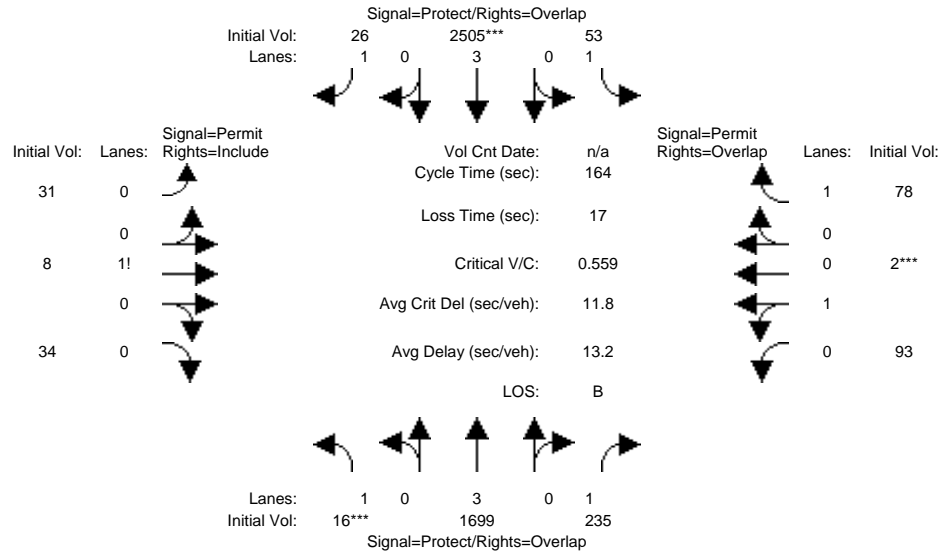
Capacity Analysis Module:												
Vol/Sat:	0.01	0.47	0.13	0.04	0.26	0.02	0.01	0.01	0.01	0.13	0.13	0.24
Crit Moves:	****			****						****		
Green Time:	6.0	116	116.2	9.8	119	119.2	27.4	27.4	27.4	27.4	27.4	37.2
Volume/Cap:	0.24	0.69	0.18	0.75	0.37	0.03	0.07	0.07	0.07	0.78	0.78	1.09
Delay/Veh:	88.9	17.2	10.1	119.1	10.5	7.8	61.0	61.0	61.0	86.8	86.8	140.2
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	88.9	17.2	10.1	119.1	10.5	7.8	61.0	61.0	61.0	86.8	86.8	140.2
LOS by Move:	F	B	B	F	B	A	E	E	E	F	F	F
HCM2k95thQ:	2	48	9	9	18	1	2	2	2	22	22	51

Note: Queue reported is the number of cars per lane.

Capitol Expressway LRT Corridor  
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Level Of Service Computation Report  
2000 HCM Operations (Future Volume Alternative)  
2023 PM PP

Intersection #4: Capitol Expressway and Cunningham Avenue



Street Name:	Capitol Expressway						Cunningham Avenue					
	North Bound			South Bound			East Bound			West Bound		
Approach:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	5.0	5.8	5.8	5.2	5.8	5.8	5.6	5.6	5.6	5.6	5.6	5.6

Volume Module:												
Base Vol:	16	1699	235	53	2505	26	31	8	34	93	2	78
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	16	1699	235	53	2505	26	31	8	34	93	2	78
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	16	1699	235	53	2505	26	31	8	34	93	2	78
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	16	1699	235	53	2505	26	31	8	34	93	2	78
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	16	1699	235	53	2505	26	31	8	34	93	2	78
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	16	1699	235	53	2505	26	31	8	34	93	2	78

Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.92	0.92	0.92	0.95	0.95	0.92
Lanes:	1.00	3.00	1.00	1.00	3.00	1.00	0.42	0.11	0.47	0.98	0.02	1.00
Final Sat.:	1750	5700	1750	1750	5700	1750	743	192	815	1762	38	1750

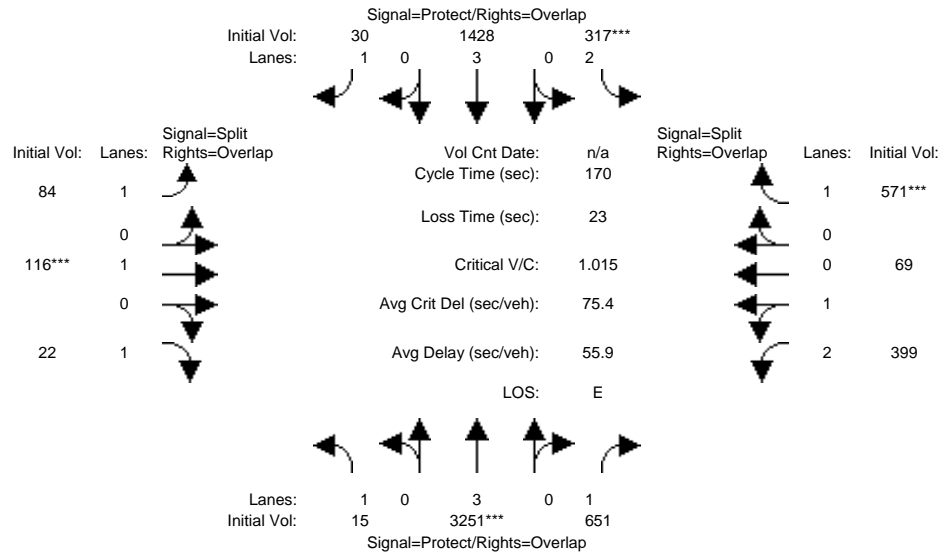
Capacity Analysis Module:												
Vol/Sat:	0.01	0.30	0.13	0.03	0.44	0.01	0.04	0.04	0.04	0.05	0.05	0.04
Crit Moves:	***			****						****		
Green Time:	3.0	119	119.2	8.8	125	125.2	19.4	19.4	22.4	19.4	19.4	28.2
Volume/Cap:	0.50	0.41	0.18	0.56	0.58	0.02	0.35	0.35	0.31	0.45	0.45	0.26
Delay/Veh:	126.3	9.0	7.4	98.0	8.7	4.7	71.2	71.2	67.1	73.9	73.9	60.9
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	126.3	9.0	7.4	98.0	8.7	4.7	71.2	71.2	67.1	73.9	73.9	60.9
LOS by Move:	F	A	A	F	A	A	E	E	E	E	E	E
HCM2k95thQ:	2	20	8	6	28	1	8	8	8	10	10	8

Note: Queue reported is the number of cars per lane.

Capitol Expressway LRT Corridor  
San Jose  
Santa Clara County

Level Of Service Computation Report  
2000 HCM Operations (Future Volume Alternative)  
2043 AM NP

Intersection #1: Capitol Expressway & Capitol Avenue



Street Name:	Capitol Expressway						Capitol Avenue / Excalibur Drive					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	5.2	5.8	5.8	5.9	5.8	5.8	5.5	5.5	5.5	5.9	5.9	5.9

Volume Module:	North Bound			South Bound			East Bound			West Bound		
Base Vol:	15	3251	651	317	1428	30	84	116	22	399	69	571
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	15	3251	651	317	1428	30	84	116	22	399	69	571
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	15	3251	651	317	1428	30	84	116	22	399	69	571
User Adj:	1.00	0.86	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	15	2796	651	317	1428	30	84	116	22	399	69	571
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	15	2796	651	317	1428	30	84	116	22	399	69	571
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	15	2796	651	317	1428	30	84	116	22	399	69	571

Saturation Flow Module:	North Bound			South Bound			East Bound			West Bound		
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.83	1.00	0.92	0.92	1.00	0.92	0.85	0.95	0.92
Lanes:	1.00	3.00	1.00	2.00	3.00	1.00	1.00	1.00	1.00	2.60	0.40	1.00
Final Sat.:	1750	5700	1750	3150	5700	1750	1750	1900	1750	4215	729	1750

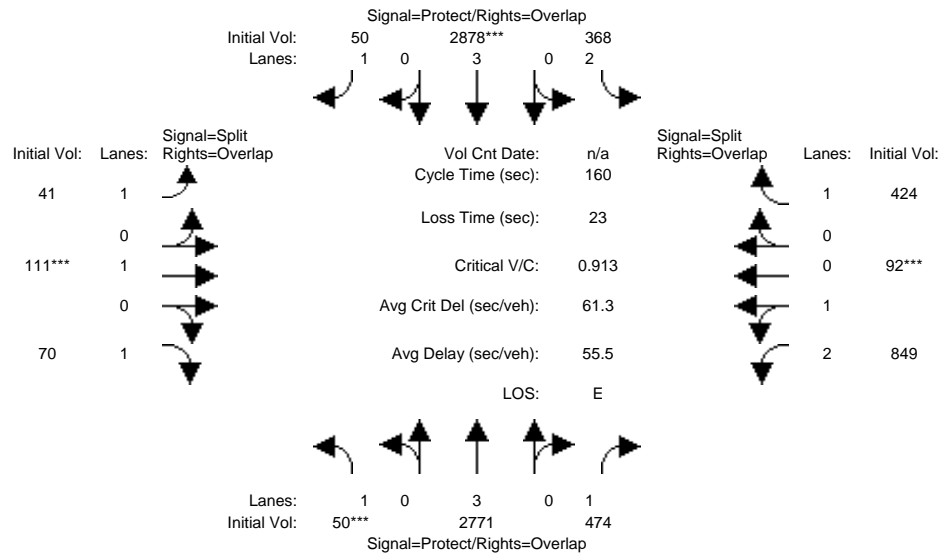
Capacity Analysis Module:	North Bound			South Bound			East Bound			West Bound		
Vol/Sat:	0.01	0.49	0.37	0.10	0.25	0.02	0.05	0.06	0.01	0.09	0.09	0.33
Crit Moves:	****			****			****			****		
Green Time:	5.0	85.2	111.3	20.1	104	119.7	15.5	15.5	17.3	26.1	26.1	46.2
Volume/Cap:	0.29	0.98	0.57	0.85	0.41	0.02	0.53	0.67	0.12	0.62	0.62	1.20
Delay/Veh:	83.9	53.8	16.8	90.4	17.1	7.6	77.0	84.5	69.8	68.8	68.8	170.9
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	83.9	53.8	16.8	90.4	17.1	7.6	77.0	84.5	69.8	68.8	68.8	170.9
LOS by Move:	F	D	B	F	B	A	E	F	E	E	E	F
HCM2k95thQ:	2	70	32	22	22	1	10	13	2	17	17	72

Note: Queue reported is the number of cars per lane.

Capitol Expressway LRT Corridor  
San Jose  
Santa Clara County

Level Of Service Computation Report  
2000 HCM Operations (Future Volume Alternative)  
2043 PM NP

Intersection #1: Capitol Expressway & Capitol Avenue



Street Name:	Capitol Expressway						Capitol Avenue / Excalibur Drive					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	5.2	5.8	5.8	5.9	5.8	5.8	5.5	5.5	5.5	5.9	5.9	5.9

Volume Module:												
Base Vol:	50	2771	474	368	2878	50	41	111	70	849	92	424
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	50	2771	474	368	2878	50	41	111	70	849	92	424
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	50	2771	474	368	2878	50	41	111	70	849	92	424
User Adj:	1.00	0.79	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	50	2189	474	368	2878	50	41	111	70	849	92	424
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	50	2189	474	368	2878	50	41	111	70	849	92	424
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	50	2189	474	368	2878	50	41	111	70	849	92	424

Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.83	1.00	0.92	0.92	1.00	0.92	0.86	0.95	0.92
Lanes:	1.00	3.00	1.00	2.00	3.00	1.00	1.00	1.00	1.00	2.73	0.27	1.00
Final Sat.:	1750	5700	1750	3150	5700	1750	1750	1900	1750	4462	484	1750

Capacity Analysis Module:												
Vol/Sat:	0.03	0.38	0.27	0.12	0.50	0.03	0.02	0.06	0.04	0.19	0.19	0.24
Crit Moves:	***			***			***			***		
Green Time:	5.8	63.2	99.3	26.1	83.2	95.7	12.5	12.5	18.3	36.1	36.1	62.2
Volume/Cap:	0.79	0.97	0.44	0.72	0.97	0.05	0.30	0.75	0.35	0.84	0.84	0.62
Delay/Veh:	123.1	55.9	8.5	68.2	57.8	18.5	70.9	91.0	66.4	65.2	65.2	41.2
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	123.1	55.9	8.5	68.2	57.8	18.5	70.9	91.0	66.4	65.2	65.2	41.2
LOS by Move:	F	E	A	E	E	B	E	F	E	E	E	D
HCM2k95thQ:	5	53	12	21	79	3	5	13	7	33	33	31

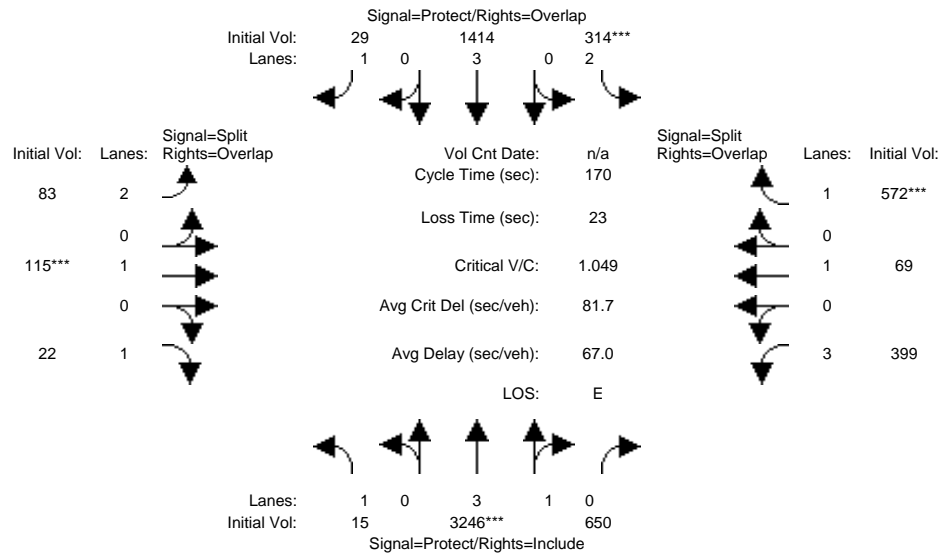
Note: Queue reported is the number of cars per lane.



Capitol Expressway LRT Corridor  
San Jose  
Santa Clara County

Level Of Service Computation Report  
2000 HCM Operations (Future Volume Alternative)  
2043 AM PP

Intersection #1: Capitol Expressway & Capitol Avenue



Street Name:	Capitol Expressway						Capitol Avenue / Excalibur Drive					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	5.2	5.8	5.8	5.9	5.8	5.8	5.5	5.5	5.5	5.9	5.9	5.9

Volume Module:												
Base Vol:	15	3246	650	314	1414	29	83	115	22	399	69	572
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	15	3246	650	314	1414	29	83	115	22	399	69	572
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	15	3246	650	314	1414	29	83	115	22	399	69	572
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	15	3246	650	314	1414	29	83	115	22	399	69	572
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	15	3246	650	314	1414	29	83	115	22	399	69	572
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	15	3246	650	314	1414	29	83	115	22	399	69	572

Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.99	0.95	0.83	1.00	0.92	0.83	1.00	0.92	0.80	1.00	0.92
Lanes:	1.00	3.31	0.69	2.00	3.00	1.00	2.00	1.00	1.00	3.00	1.00	1.00
Final Sat.:	1750	6247	1251	3150	5700	1750	3150	1900	1750	4551	1900	1750

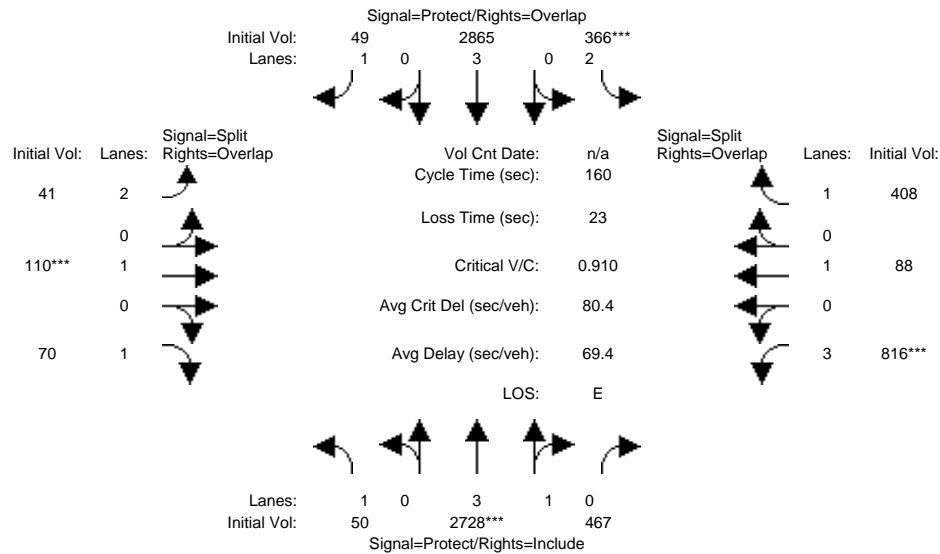
Capacity Analysis Module:												
Vol/Sat:	0.01	0.52	0.52	0.10	0.25	0.02	0.03	0.06	0.01	0.09	0.04	0.33
Crit Moves:	****			****			****			****		
Green Time:	5.0	85.2	85.2	20.1	104	119.7	15.5	15.5	17.3	26.1	26.1	46.2
Volume/Cap:	0.29	1.04	1.04	0.84	0.40	0.02	0.29	0.66	0.12	0.57	0.24	1.20
Delay/Veh:	83.9	67.8	67.8	89.3	17.0	7.6	72.7	84.0	69.8	67.9	63.6	171.7
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	83.9	67.8	67.8	89.3	17.0	7.6	72.7	84.0	69.8	67.9	63.6	171.7
LOS by Move:	F	E	E	F	B	A	E	F	E	E	E	F
HCM2k95thQ:	2	81	81	22	22	1	5	13	2	16	6	72

Note: Queue reported is the number of cars per lane.

Capitol Expressway LRT Corridor  
San Jose  
Santa Clara County

Level Of Service Computation Report  
2000 HCM Operations (Future Volume Alternative)  
2043 PM PP

Intersection #1: Capitol Expressway & Capitol Avenue



Street Name:	Capitol Expressway						Capitol Avenue / Excalibur Drive					
	North Bound			South Bound			East Bound			West Bound		
Approach:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	5.2	5.8	5.8	5.9	5.8	5.8	5.5	5.5	5.5	5.9	5.9	5.9

Volume Module:												
Base Vol:	50	2728	467	366	2865	49	41	110	70	816	88	408
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	50	2728	467	366	2865	49	41	110	70	816	88	408
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	50	2728	467	366	2865	49	41	110	70	816	88	408
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	50	2728	467	366	2865	49	41	110	70	816	88	408
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	50	2728	467	366	2865	49	41	110	70	816	88	408
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	50	2728	467	366	2865	49	41	110	70	816	88	408

Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.99	0.95	0.83	1.00	0.92	0.83	1.00	0.92	0.80	1.00	0.92
Lanes:	1.00	3.39	0.61	2.00	3.00	1.00	2.00	1.00	1.00	3.00	1.00	1.00
Final Sat.:	1750	6402	1096	3150	5700	1750	3150	1900	1750	4551	1900	1750

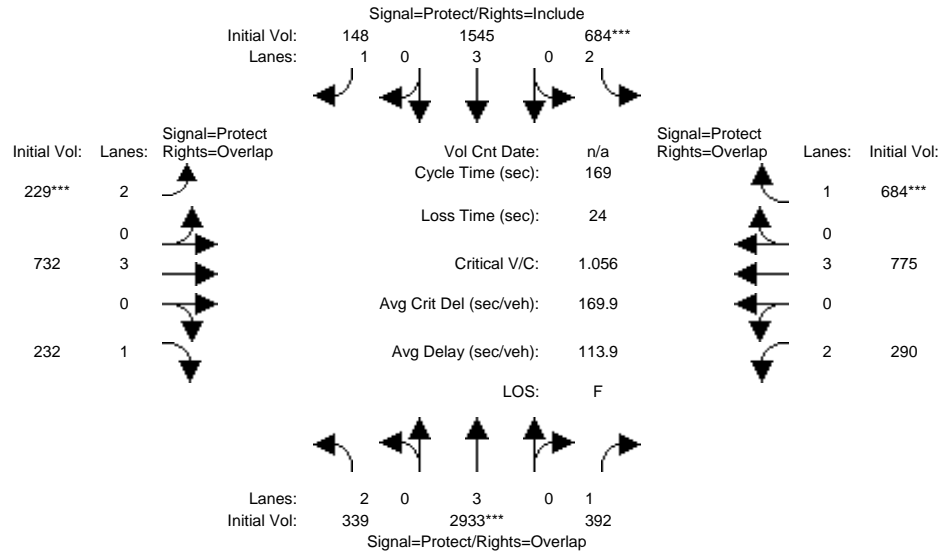
Capacity Analysis Module:												
Vol/Sat:	0.03	0.43	0.43	0.12	0.50	0.03	0.01	0.06	0.04	0.18	0.05	0.23
Crit Moves:	****			****			****			****		
Green Time:	5.8	63.2	63.2	26.1	83.2	95.7	12.5	12.5	18.3	36.1	36.1	62.2
Volume/Cap:	0.79	1.08	1.08	0.71	0.97	0.05	0.17	0.74	0.35	0.79	0.21	0.60
Delay/Veh:	123.1	86.0	86.0	68.1	56.9	18.5	69.2	90.2	66.4	62.8	50.5	40.5
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	123.1	86.0	86.0	68.1	56.9	18.5	69.2	90.2	66.4	62.8	50.5	40.5
LOS by Move:	F	F	F	E	E	B	E	F	E	E	D	D
HCM2k95thQ:	5	69	69	21	78	3	3	13	7	30	7	30

Note: Queue reported is the number of cars per lane.

Capitol Expressway LRT Corridor  
San Jose  
Santa Clara County

Level Of Service Computation Report  
2000 HCM Operations (Future Volume Alternative)  
2043 AM NP

Intersection #2: Capitol Expressway & Story Road



Street Name:	Capitol Expressway						Story Road					
	North Bound			South Bound			East Bound			West Bound		
Approach:												
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	5.5	5.8	5.8	5.9	5.8	5.8	6.3	6.1	6.1	6.3	6.2	6.2

Volume Module:												
Base Vol:	339	2933	392	684	1545	148	229	732	232	290	775	684
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	339	2933	392	684	1545	148	229	732	232	290	775	684
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	339	2933	392	684	1545	148	229	732	232	290	775	684
User Adj:	1.00	0.86	1.00	1.00	0.79	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	339	2522	392	684	1221	148	229	732	232	290	775	684
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	339	2522	392	684	1221	148	229	732	232	290	775	684
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	339	2522	392	684	1221	148	229	732	232	290	775	684

Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.83	1.00	0.92	0.83	1.00	0.92	0.83	1.00	0.92	0.83	1.00	0.92
Lanes:	2.00	3.00	1.00	2.00	3.00	1.00	2.00	3.00	1.00	2.00	3.00	1.00
Final Sat.:	3150	5700	1750	3150	5700	1750	3150	5700	1750	3150	5700	1750

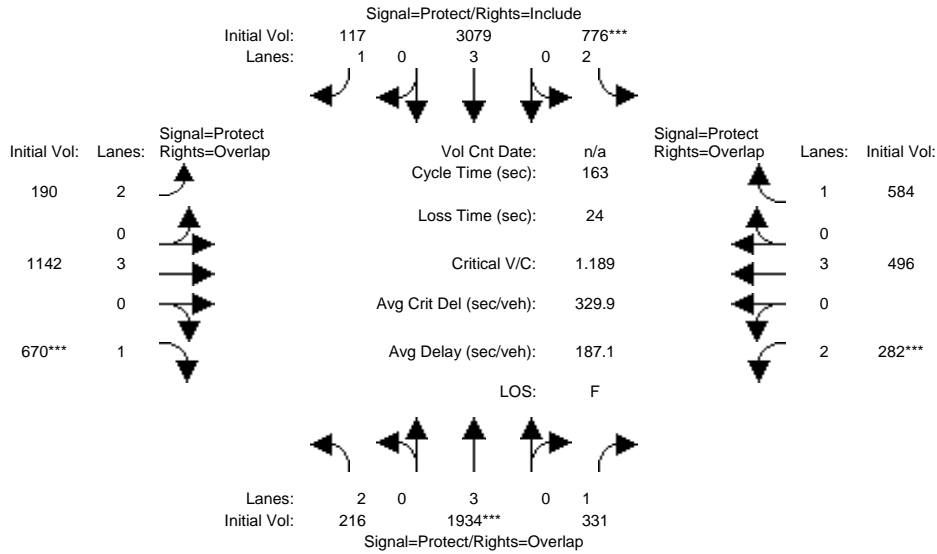
Capacity Analysis Module:												
Vol/Sat:	0.11	0.44	0.22	0.22	0.21	0.08	0.07	0.13	0.13	0.09	0.14	0.39
Crit Moves:	****			****			****			****		
Green Time:	21.5	65.2	79.9	21.1	65.2	65.2	15.7	43.9	65.4	14.7	42.8	63.9
Volume/Cap:	0.85	1.15	0.47	1.74	0.56	0.22	0.78	0.49	0.34	1.06	0.54	1.03
Delay/Veh:	87.4	130	37.0	416.7	45.9	39.3	87.8	53.4	36.9	147.7	54.9	96.5
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	87.4	130	37.0	416.7	45.9	39.3	87.8	53.4	36.9	147.7	54.9	96.5
LOS by Move:	F	F	D	F	D	D	F	D	D	F	D	F
HCM2k95thQ:	18	82	28	66	30	12	16	21	19	24	21	71

Note: Queue reported is the number of cars per lane.

Capitol Expressway LRT Corridor  
San Jose  
Santa Clara County

Level Of Service Computation Report  
2000 HCM Operations (Future Volume Alternative)  
2043 PM NP

Intersection #2: Capitol Expressway & Story Road



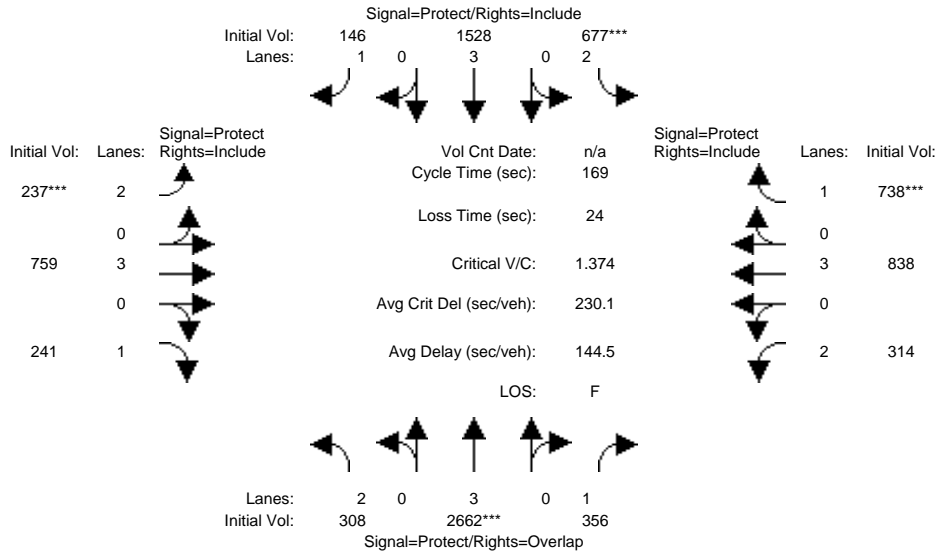
Street Name:	Capitol Expressway						Story Road					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	5.5	5.8	5.8	5.9	5.8	5.8	6.3	6.1	6.1	6.3	6.2	6.2
Volume Module:												
Base Vol:	216	1934	331	776	3079	117	190	1142	670	282	496	584
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	216	1934	331	776	3079	117	190	1142	670	282	496	584
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	216	1934	331	776	3079	117	190	1142	670	282	496	584
User Adj:	1.00	0.79	1.00	1.00	0.86	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	216	1528	331	776	2648	117	190	1142	670	282	496	584
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	216	1528	331	776	2648	117	190	1142	670	282	496	584
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	216	1528	331	776	2648	117	190	1142	670	282	496	584
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.83	1.00	0.92	0.60	1.00	0.92	0.83	0.83	0.92	0.83	1.00	0.92
Lanes:	2.00	3.00	1.00	2.00	3.00	1.00	2.00	3.00	1.00	2.00	3.00	1.00
Final Sat.:	3150	5700	1750	2268	5700	1750	3150	4731	1750	3150	5700	1750
Capacity Analysis Module:												
Vol/Sat:	0.07	0.27	0.19	0.34	0.46	0.07	0.06	0.24	0.38	0.09	0.09	0.33
Crit Moves:	****			****			****			****		
Green Time:	15.5	34.2	50.9	20.1	62.2	62.2	17.7	44.9	60.4	16.7	43.8	60.9
Volume/Cap:	0.72	1.28	0.61	2.77	1.22	0.18	0.56	0.88	1.03	0.87	0.32	0.89
Delay/Veh:	79.9	197	52.8	880.1	159	37.6	70.9	63.4	95.4	94.2	47.9	62.6
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	79.9	197	52.8	880.1	159	37.6	70.9	63.4	95.4	94.2	47.9	62.6
LOS by Move:	E	F	D	F	F	D	E	E	F	F	D	E
HCM2k95thQ:	11	59	26	89	92	9	12	36	68	20	12	52

Note: Queue reported is the number of cars per lane.

Capitol Expressway LRT Corridor  
San Jose  
Santa Clara County

Level Of Service Computation Report  
2000 HCM Operations (Future Volume Alternative)  
2043 AM PP

Intersection #2: Capitol Expressway & Story Road



Street Name:	Capitol Expressway						Story Road					
	North Bound			South Bound			East Bound			West Bound		
Approach:												
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	5.5	5.8	5.8	5.9	5.8	5.8	6.3	6.1	6.1	6.3	6.3	6.2

Volume Module:												
Base Vol:	308	2662	356	677	1528	146	237	759	241	314	838	738
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	308	2662	356	677	1528	146	237	759	241	314	838	738
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	308	2662	356	677	1528	146	237	759	241	314	838	738
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	308	2662	356	677	1528	146	237	759	241	314	838	738
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	308	2662	356	677	1528	146	237	759	241	314	838	738
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	308	2662	356	677	1528	146	237	759	241	314	838	738

Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.83	1.00	0.92	0.83	1.00	0.92	0.83	1.00	0.92	0.83	1.00	0.92
Lanes:	2.00	3.00	1.00	2.00	3.00	1.00	2.00	3.00	1.00	2.00	3.00	1.00
Final Sat.:	3150	5700	1750	3150	5700	1750	3150	5700	1750	3150	5700	1750

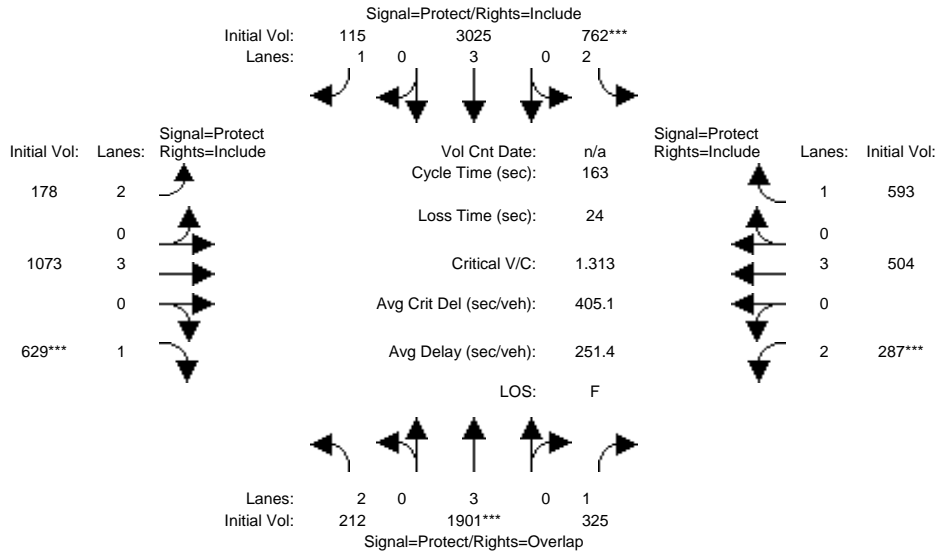
Capacity Analysis Module:												
Vol/Sat:	0.10	0.47	0.20	0.21	0.27	0.08	0.08	0.13	0.14	0.10	0.15	0.42
Crit Moves:	****			****			****			****		
Green Time:	21.5	65.2	65.2	21.1	65.2	65.2	15.7	43.9	43.9	14.7	42.8	42.8
Volume/Cap:	0.77	1.21	0.53	1.72	0.69	0.22	0.81	0.51	0.53	1.15	0.58	1.66
Delay/Veh:	80.1	158	45.8	408.9	50.0	39.3	90.6	53.7	54.9	176.7	55.8	372.1
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	80.1	158	45.8	408.9	50.0	39.3	90.6	53.7	54.9	176.7	55.8	372.1
LOS by Move:	F	F	D	F	D	D	F	D	D	F	E	F
HCM2k95thQ:	16	93	27	65	39	12	17	21	22	27	23	121

Note: Queue reported is the number of cars per lane.

Capitol Expressway LRT Corridor  
San Jose  
Santa Clara County

Level Of Service Computation Report  
2000 HCM Operations (Future Volume Alternative)  
2043 PM PP

Intersection #2: Capitol Expressway & Story Road



Street Name:	Capitol Expressway						Story Road					
	North Bound			South Bound			East Bound			West Bound		
Approach:												
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	5.5	5.8	5.8	5.9	5.8	5.8	6.3	6.1	6.1	6.3	6.2	6.2

Volume Module:												
Base Vol:	212	1901	325	762	3025	115	178	1073	629	287	504	593
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	212	1901	325	762	3025	115	178	1073	629	287	504	593
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	212	1901	325	762	3025	115	178	1073	629	287	504	593
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	212	1901	325	762	3025	115	178	1073	629	287	504	593
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	212	1901	325	762	3025	115	178	1073	629	287	504	593
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	212	1901	325	762	3025	115	178	1073	629	287	504	593

Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.83	1.00	0.92	0.60	1.00	0.92	0.83	0.83	0.92	0.83	1.00	0.92
Lanes:	2.00	3.00	1.00	2.00	3.00	1.00	2.00	3.00	1.00	2.00	3.00	1.00
Final Sat.:	3150	5700	1750	2268	5700	1750	3150	4731	1750	3150	5700	1750

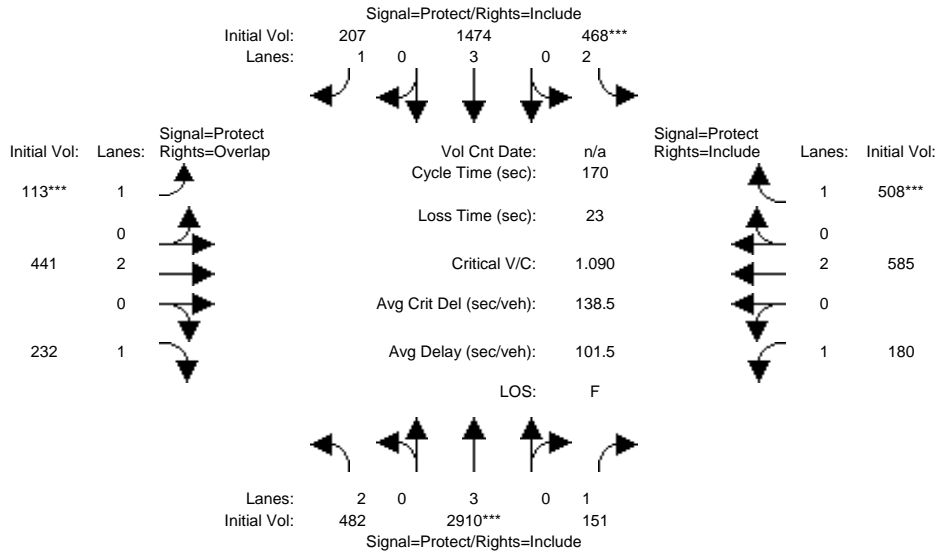
Capacity Analysis Module:												
Vol/Sat:	0.07	0.33	0.19	0.34	0.53	0.07	0.06	0.23	0.36	0.09	0.09	0.34
Crit Moves:	****			****			****			****		
Green Time:	15.5	34.2	50.9	20.1	62.2	62.2	17.7	44.9	44.9	16.7	43.8	43.8
Volume/Cap:	0.71	1.59	0.59	2.72	1.39	0.17	0.52	0.82	1.30	0.89	0.33	1.26
Delay/Veh:	79.1	335	52.5	857.7	235	37.5	70.1	59.7	210.6	96.8	47.9	193.3
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	79.1	335	52.5	857.7	235	37.5	70.1	59.7	210.6	96.8	47.9	193.3
LOS by Move:	E	F	D	F	F	D	E	E	F	F	D	F
HCM2k95thQ:	11	89	26	87	123	9	11	32	83	20	13	76

Note: Queue reported is the number of cars per lane.

Capitol Expressway LRT Corridor  
San Jose  
Santa Clara County

Level Of Service Computation Report  
2000 HCM Operations (Future Volume Alternative)  
2043 AM NP

Intersection #3: Capitol Expressway & Ocala Avenue



Street Name:	Capitol Expressway						Ocala Avenue					
	North Bound			South Bound			East Bound			West Bound		
Approach:												
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	5.2	5.8	5.8	5.8	5.8	5.8	5.5	5.7	5.7	5.9	5.7	5.7

Volume Module:												
Base Vol:	482	2910	151	468	1474	207	113	441	232	180	585	508
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	482	2910	151	468	1474	207	113	441	232	180	585	508
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	482	2910	151	468	1474	207	113	441	232	180	585	508
User Adj:	1.00	0.86	1.00	1.00	0.79	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	482	2503	151	468	1164	207	113	441	232	180	585	508
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	482	2503	151	468	1164	207	113	441	232	180	585	508
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	482	2503	151	468	1164	207	113	441	232	180	585	508

Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.83	1.00	0.92	0.83	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	2.00	3.00	1.00	2.00	3.00	1.00	1.00	2.00	1.00	1.00	2.00	1.00
Final Sat.:	3150	5700	1750	3150	5700	1750	1750	3800	1750	1750	3800	1750

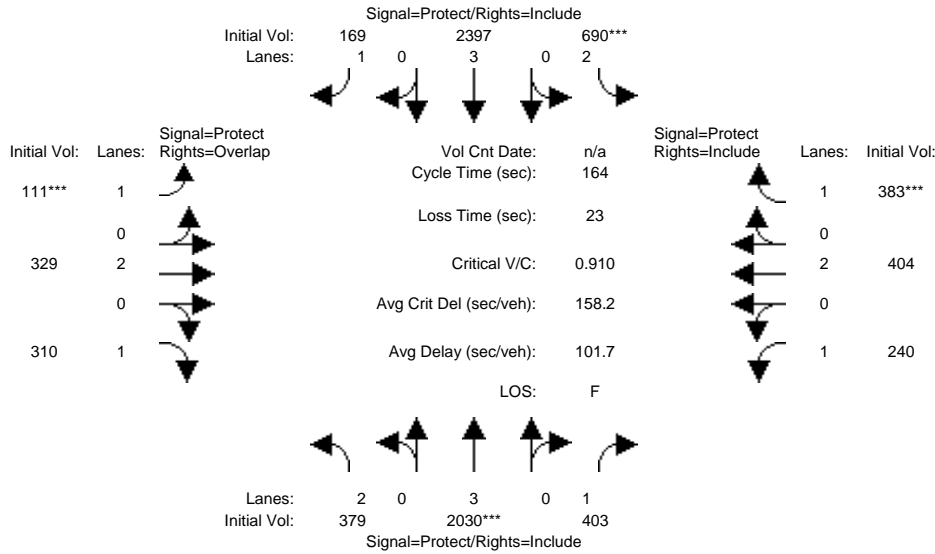
Capacity Analysis Module:												
Vol/Sat:	0.15	0.44	0.09	0.15	0.20	0.12	0.06	0.12	0.13	0.10	0.15	0.29
Crit Moves:	****			****			****			****		
Green Time:	24.8	65.2	65.2	18.2	59.2	59.2	14.5	45.3	70.1	18.1	49.3	49.3
Volume/Cap:	1.05	1.14	0.22	1.39	0.59	0.34	0.76	0.44	0.32	0.97	0.53	1.00
Delay/Veh:	127.9	124	36.1	267.5	46.7	42.5	105.6	53.1	35.0	133.2	52.5	100.5
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	127.9	124	36.1	267.5	46.7	42.5	105.6	53.1	35.0	133.2	52.5	100.5
LOS by Move:	F	F	D	F	D	D	F	D	D	F	D	F
HCM2k95thQ:	31	93	11	40	27	15	14	16	15	23	21	55

Note: Queue reported is the number of cars per lane.

Capitol Expressway LRT Corridor  
San Jose  
Santa Clara County

Level Of Service Computation Report  
2000 HCM Operations (Future Volume Alternative)  
2043 PM NP

Intersection #3: Capitol Expressway & Ocala Avenue



Street Name:	Capitol Expressway						Ocala Avenue					
	North Bound			South Bound			East Bound			West Bound		
Approach:												
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	5.2	5.8	5.8	5.8	5.8	5.8	5.5	5.7	5.7	5.9	5.7	5.7

Volume Module:												
Base Vol:	379	2030	403	690	2397	169	111	329	310	240	404	383
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	379	2030	403	690	2397	169	111	329	310	240	404	383
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	379	2030	403	690	2397	169	111	329	310	240	404	383
User Adj:	1.00	0.79	1.00	1.00	0.86	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	379	1604	403	690	2061	169	111	329	310	240	404	383
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	379	1604	403	690	2061	169	111	329	310	240	404	383
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	379	1604	403	690	2061	169	111	329	310	240	404	383

Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.83	1.00	0.92	0.83	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	2.00	3.00	1.00	2.00	3.00	1.00	1.00	2.00	1.00	1.00	2.00	1.00
Final Sat.:	3150	5700	1750	3150	5700	1750	1750	3800	1750	1750	3800	1750

Capacity Analysis Module:												
Vol/Sat:	0.12	0.28	0.23	0.22	0.36	0.10	0.06	0.09	0.18	0.14	0.11	0.22
Crit Moves:	****			****			****			****		
Green Time:	17.8	45.2	45.2	22.2	74.2	74.2	13.5	29.3	47.1	20.1	36.3	36.3
Volume/Cap:	1.11	1.02	0.84	1.62	0.80	0.21	0.77	0.48	0.62	1.12	0.48	0.99
Delay/Veh:	154.4	87.5	71.6	359.5	41.2	27.8	105.8	63.0	56.2	168.9	57.6	106.7
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	154.4	87.5	71.6	359.5	41.2	27.8	105.8	63.0	56.2	168.9	57.6	106.7
LOS by Move:	F	F	E	F	D	C	F	E	E	F	E	F
HCM2k95thQ:	26	53	36	62	44	10	14	14	24	32	16	41

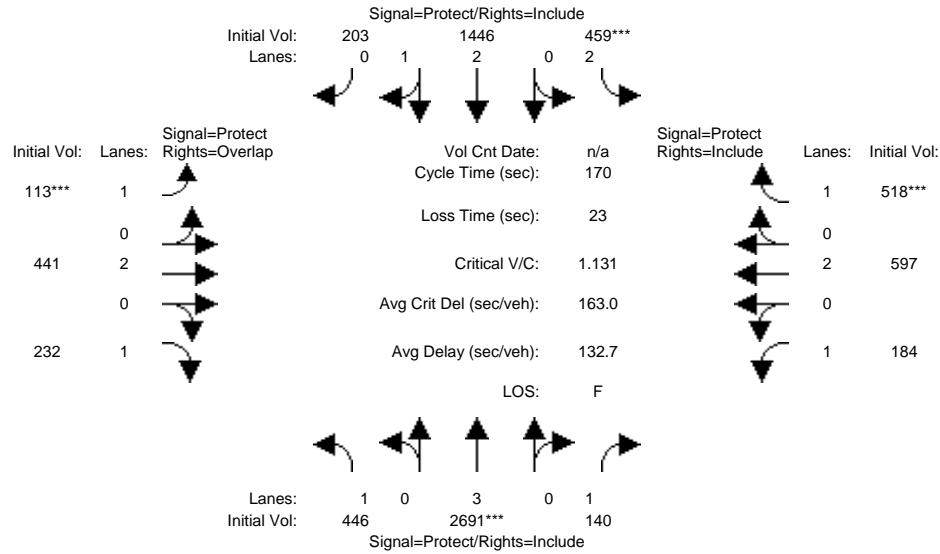
Note: Queue reported is the number of cars per lane.



Capitol Expressway LRT Corridor  
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Santa Clara County

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2043 AM PP

Intersection #3: Capitol Expressway & Ocala Avenue



Street Name:	Capitol Expressway						Ocala Avenue					
	North Bound			South Bound			East Bound			West Bound		
Approach:												
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	5.2	5.8	5.8	5.8	5.8	5.8	5.5	5.7	5.7	5.9	5.7	5.7

Volume Module:												
Base Vol:	446	2691	140	459	1446	203	113	441	232	184	597	518
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	446	2691	140	459	1446	203	113	441	232	184	597	518
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	446	2691	140	459	1446	203	113	441	232	184	597	518
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	446	2691	140	459	1446	203	113	441	232	184	597	518
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	446	2691	140	459	1446	203	113	441	232	184	597	518
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	446	2691	140	459	1446	203	113	441	232	184	597	518

Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.83	0.99	0.95	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	1.00	3.00	1.00	2.00	2.62	0.38	1.00	2.00	1.00	1.00	2.00	1.00
Final Sat.:	1750	5700	1750	3150	4910	689	1750	3800	1750	1750	3800	1750

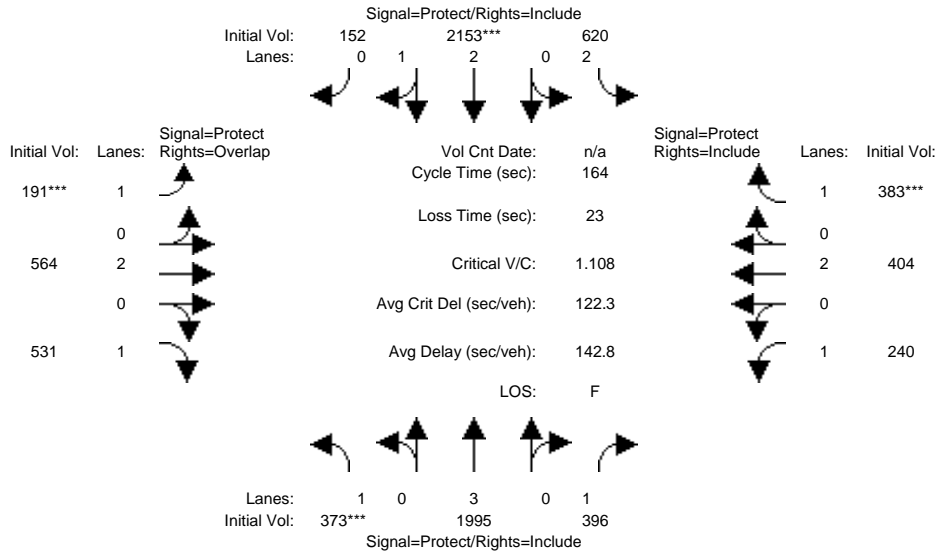
Capacity Analysis Module:												
Vol/Sat:	0.25	0.47	0.08	0.15	0.29	0.29	0.06	0.12	0.13	0.11	0.16	0.30
Crit Moves:	****			****			****			****		
Green Time:	24.8	65.2	65.2	18.2	59.2	59.2	14.5	45.3	70.1	18.1	49.3	49.3
Volume/Cap:	1.75	1.23	0.21	1.36	0.85	0.85	0.76	0.44	0.32	0.99	0.54	1.02
Delay/Veh:	424.4	161	35.8	256.3	55.9	55.9	105.6	53.1	35.0	138.5	52.7	105.6
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	424.4	161	35.8	256.3	55.9	55.9	105.6	53.1	35.0	138.5	52.7	105.6
LOS by Move:	F	F	D	F	E	E	F	D	D	F	D	F
HCM2k95thQ:	80	108	10	38	45	45	14	16	15	24	22	57

Note: Queue reported is the number of cars per lane.

Capitol Expressway LRT Corridor  
San Jose  
Santa Clara County

Level Of Service Computation Report  
2000 HCM Operations (Future Volume Alternative)  
2043 PM PP

Intersection #3: Capitol Expressway & Ocala Avenue



Street Name:	Capitol Expressway						Ocala Avenue					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:	5.2	5.8	5.8	5.8	5.8	5.8	5.5	5.7	5.7	5.9	5.7	5.7

Volume Module:	373	1995	396	620	2153	152	191	564	531	240	404	383
Base Vol:	373	1995	396	620	2153	152	191	564	531	240	404	383
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	373	1995	396	620	2153	152	191	564	531	240	404	383
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	373	1995	396	620	2153	152	191	564	531	240	404	383
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	373	1995	396	620	2153	152	191	564	531	240	404	383
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	373	1995	396	620	2153	152	191	564	531	240	404	383
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	373	1995	396	620	2153	152	191	564	531	240	404	383

Saturation Flow Module:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.83	0.98	0.95	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	1.00	3.00	1.00	2.00	2.79	0.21	1.00	2.00	1.00	1.00	2.00	1.00
Final Sat.:	1750	5700	1750	3150	5230	369	1750	3800	1750	1750	3800	1750

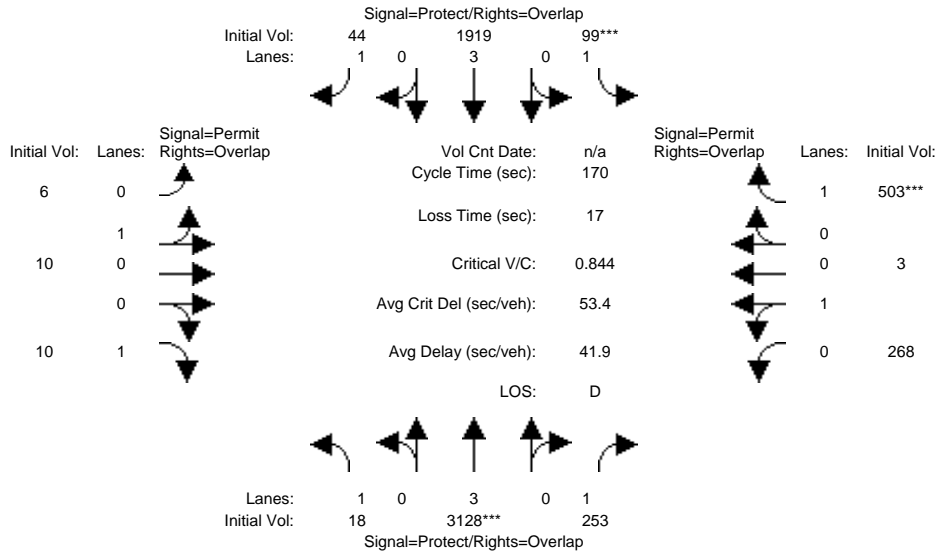
Capacity Analysis Module:	0.21	0.35	0.23	0.20	0.41	0.41	0.11	0.15	0.30	0.14	0.11	0.22
Vol/Sat:	0.21	0.35	0.23	0.20	0.41	0.41	0.11	0.15	0.30	0.14	0.11	0.22
Crit Moves:	***				***		***					***
Green Time:	17.8	45.2	45.2	22.2	74.2	74.2	13.5	29.3	47.1	20.1	36.3	36.3
Volume/Cap:	1.96	1.27	0.82	1.45	0.91	0.91	1.33	0.83	1.06	1.12	0.48	0.99
Delay/Veh:	525.6	186	70.1	287.8	48.0	48.0	262.0	76.3	114.3	168.9	57.6	106.7
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	525.6	186	70.1	287.8	48.0	48.0	262.0	76.3	114.3	168.9	57.6	106.7
LOS by Move:	F	F	E	F	D	D	F	E	F	F	E	F
HCM2k95thQ:	71	82	35	51	55	55	30	26	59	32	16	41

Note: Queue reported is the number of cars per lane.

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Intersection #4: Capitol Expressway and Cunningham Avenue



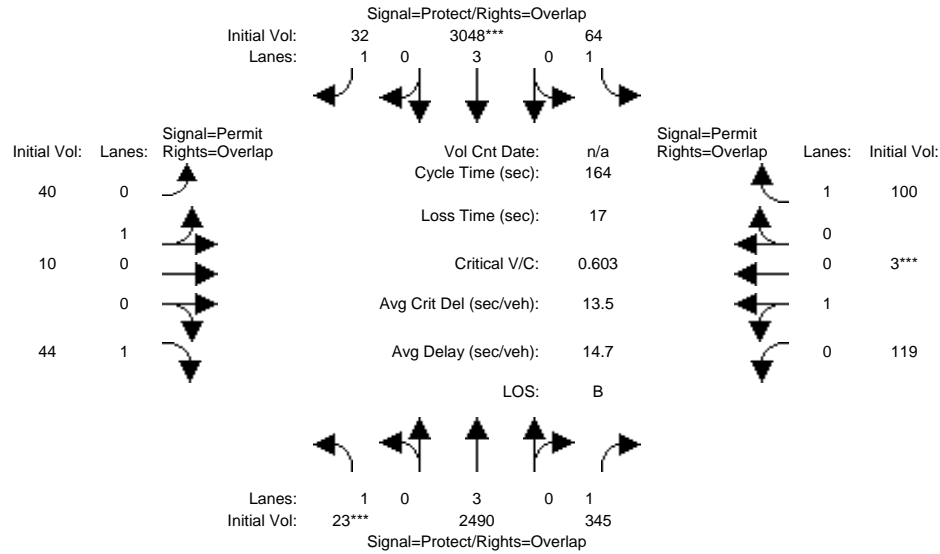
Street Name:	Capitol Expressway						Cunningham Avenue					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	5.0	5.8	5.8	5.2	5.8	5.8	5.6	5.6	5.6	5.6	5.6	5.6
Volume Module:												
Base Vol:	18	3128	253	99	1919	44	6	10	10	268	3	503
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	18	3128	253	99	1919	44	6	10	10	268	3	503
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	18	3128	253	99	1919	44	6	10	10	268	3	503
User Adj:	1.00	0.86	1.00	1.00	0.79	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	18	2690	253	99	1516	44	6	10	10	268	3	503
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	18	2690	253	99	1516	44	6	10	10	268	3	503
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	18	2690	253	99	1516	44	6	10	10	268	3	503
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.95	0.95	0.92	0.95	0.95	0.92
Lanes:	1.00	3.00	1.00	1.00	3.00	1.00	0.37	0.63	1.00	0.99	0.01	1.00
Final Sat.:	1750	5700	1750	1750	5700	1750	675	1125	1750	1780	20	1750
Capacity Analysis Module:												
Vol/Sat:	0.01	0.47	0.14	0.06	0.27	0.03	0.01	0.01	0.01	0.15	0.15	0.29
Crit Moves:	****			****								
Green Time:	6.0	116	116.2	9.8	119	119.2	27.4	27.4	33.4	27.4	27.4	37.2
Volume/Cap:	0.29	0.69	0.21	0.98	0.38	0.04	0.06	0.06	0.03	0.93	0.93	1.31
Delay/Veh:	91.5	17.1	10.4	164.9	10.6	7.8	60.7	60.7	55.3	108.7	109	225.1
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	91.5	17.1	10.4	164.9	10.6	7.8	60.7	60.7	55.3	108.7	109	225.1
LOS by Move:	F	B	B	F	B	A	E	E	E	F	F	F
HCM2k95thQ:	2	48	10	13	18	2	2	2	1	30	30	73

Note: Queue reported is the number of cars per lane.

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Intersection #4: Capitol Expressway and Cunningham Avenue



Street Name:	Capitol Expressway						Cunningham Avenue					
	North Bound			South Bound			East Bound			West Bound		
Approach:												
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	5.0	5.8	5.8	5.2	5.8	5.8	5.6	5.6	5.6	5.6	5.6	5.6

Volume Module:												
Base Vol:	23	2490	345	64	3048	32	40	10	44	119	3	100
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	23	2490	345	64	3048	32	40	10	44	119	3	100
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	23	2490	345	64	3048	32	40	10	44	119	3	100
User Adj:	1.00	0.79	1.00	1.00	0.86	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	23	1967	345	64	2621	32	40	10	44	119	3	100
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	23	1967	345	64	2621	32	40	10	44	119	3	100
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	23	1967	345	64	2621	32	40	10	44	119	3	100

Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.95	0.95	0.92	0.95	0.95	0.92
Lanes:	1.00	3.00	1.00	1.00	3.00	1.00	0.80	0.20	1.00	0.98	0.02	1.00
Final Sat.:	1750	5700	1750	1750	5700	1750	1440	360	1750	1756	44	1750

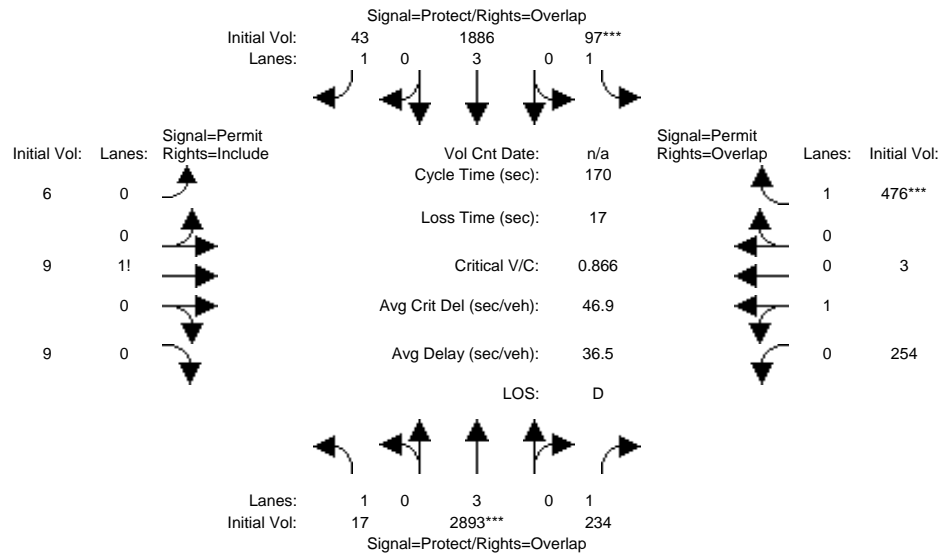
Capacity Analysis Module:												
Vol/Sat:	0.01	0.35	0.20	0.04	0.46	0.02	0.03	0.03	0.03	0.07	0.07	0.06
Crit Moves:	***			****						****		
Green Time:	3.0	119	119.2	8.8	125	125.2	19.4	19.4	22.4	19.4	19.4	28.2
Volume/Cap:	0.72	0.47	0.27	0.68	0.60	0.02	0.23	0.23	0.18	0.57	0.57	0.33
Delay/Veh:	165.6	9.7	8.1	109.4	9.1	4.7	68.1	68.1	64.4	79.1	79.1	62.6
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	165.6	9.7	8.1	109.4	9.1	4.7	68.1	68.1	64.4	79.1	79.1	62.6
LOS by Move:	F	A	A	F	A	A	E	E	E	E	E	E
HCM2k95thQ:	3	24	12	7	31	1	5	5	5	13	13	10

Note: Queue reported is the number of cars per lane.

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Intersection #4: Capitol Expressway and Cunningham Avenue



Street Name:	Capitol Expressway						Cunningham Avenue					
	North Bound			South Bound			East Bound			West Bound		
Approach:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	5.0	5.8	5.8	5.2	5.8	5.8	5.6	5.6	5.6	5.6	5.6	5.6

Volume Module:												
Base Vol:	17	2893	234	97	1886	43	6	9	9	254	3	476
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	17	2893	234	97	1886	43	6	9	9	254	3	476
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	17	2893	234	97	1886	43	6	9	9	254	3	476
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	17	2893	234	97	1886	43	6	9	9	254	3	476
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	17	2893	234	97	1886	43	6	9	9	254	3	476
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	17	2893	234	97	1886	43	6	9	9	254	3	476

Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.92	0.92	0.92	0.95	0.95	0.92
Lanes:	1.00	3.00	1.00	1.00	3.00	1.00	0.25	0.37	0.38	0.99	0.01	1.00
Final Sat.:	1750	5700	1750	1750	5700	1750	438	656	656	1779	21	1750

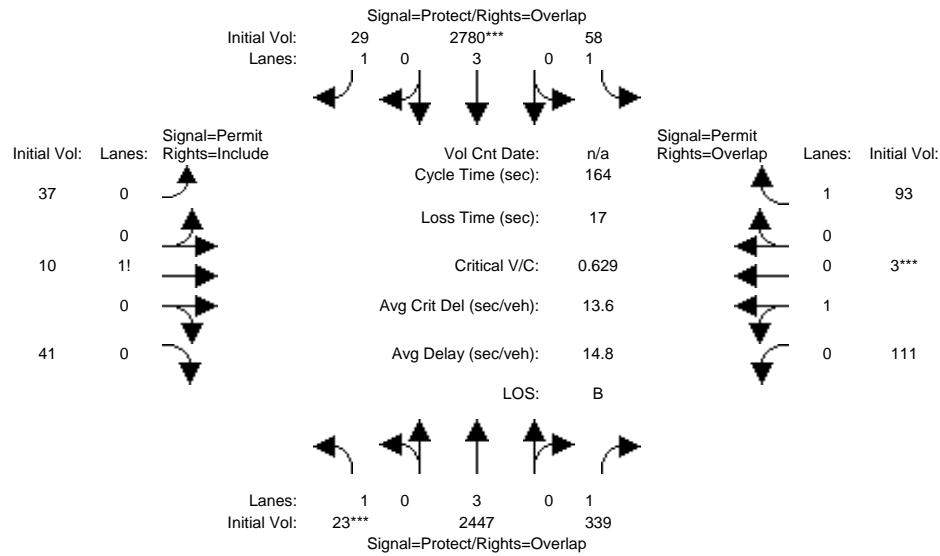
Capacity Analysis Module:												
Vol/Sat:	0.01	0.51	0.13	0.06	0.33	0.02	0.01	0.01	0.01	0.14	0.14	0.27
Crit Moves:	****			****								
Green Time:	6.0	116	116.2	9.8	119	119.2	27.4	27.4	27.4	27.4	27.4	37.2
Volume/Cap:	0.28	0.74	0.20	0.96	0.47	0.04	0.09	0.09	0.09	0.89	0.89	1.24
Delay/Veh:	90.6	18.6	10.2	159.8	11.7	7.8	61.2	61.2	61.2	100.0	100	196.1
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	90.6	18.6	10.2	159.8	11.7	7.8	61.2	61.2	61.2	100.0	100	196.1
LOS by Move:	F	B	B	F	B	A	E	E	E	F	F	F
HCM2k95thQ:	2	56	10	12	23	2	3	3	3	27	27	66

Note: Queue reported is the number of cars per lane.

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Intersection #4: Capitol Expressway and Cunningham Avenue



Street Name:	Capitol Expressway						Cunningham Avenue					
	North Bound			South Bound			East Bound			West Bound		
Approach:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	5.0	5.8	5.8	5.2	5.8	5.8	5.6	5.6	5.6	5.6	5.6	5.6

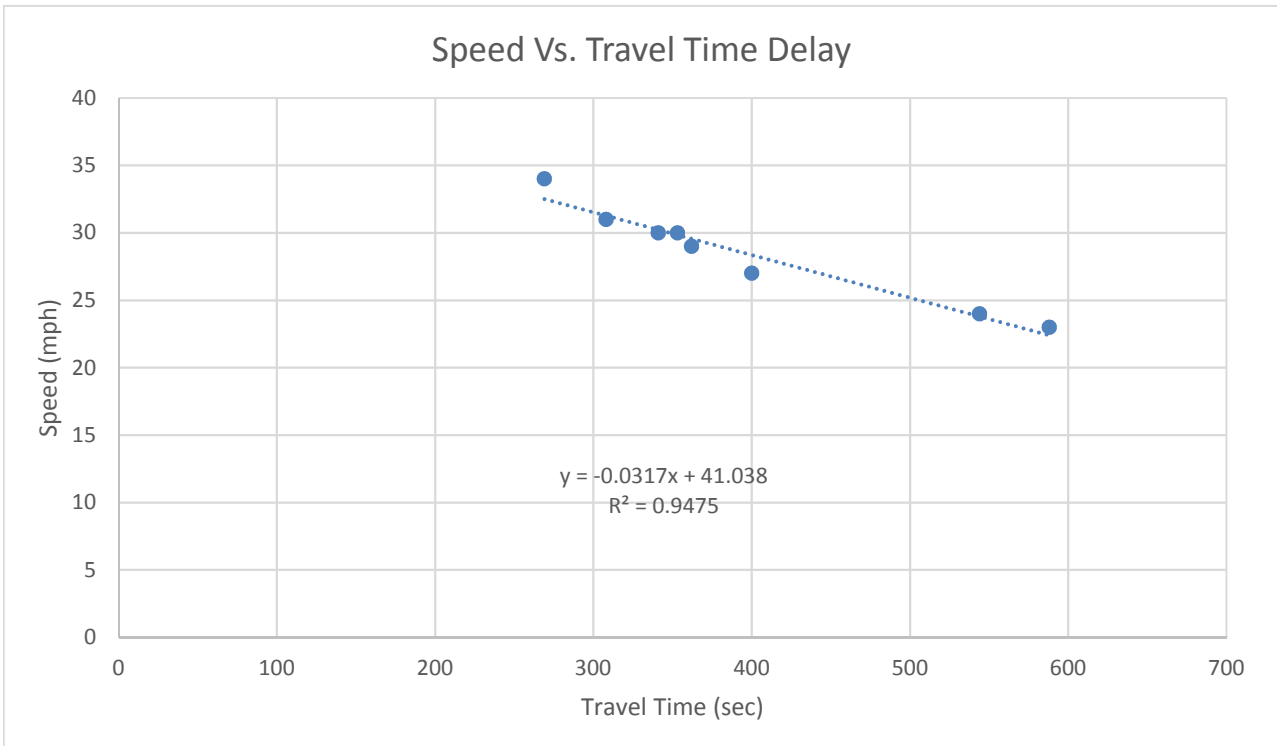
Volume Module:												
Base Vol:	23	2447	339	58	2780	29	37	10	41	111	3	93
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	23	2447	339	58	2780	29	37	10	41	111	3	93
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	23	2447	339	58	2780	29	37	10	41	111	3	93
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	23	2447	339	58	2780	29	37	10	41	111	3	93
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	23	2447	339	58	2780	29	37	10	41	111	3	93
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	23	2447	339	58	2780	29	37	10	41	111	3	93

Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.92	0.92	0.92	0.95	0.95	0.92
Lanes:	1.00	3.00	1.00	1.00	3.00	1.00	0.42	0.11	0.47	0.97	0.03	1.00
Final Sat.:	1750	5700	1750	1750	5700	1750	736	199	815	1753	47	1750

Capacity Analysis Module:												
Vol/Sat:	0.01	0.43	0.19	0.03	0.49	0.02	0.05	0.05	0.05	0.06	0.06	0.05
Crit Moves:	***			****						****		
Green Time:	3.0	119	119.2	8.8	125	125.2	19.4	19.4	22.4	19.4	19.4	28.2
Volume/Cap:	0.72	0.59	0.27	0.62	0.64	0.02	0.43	0.43	0.37	0.54	0.54	0.31
Delay/Veh:	165.6	11.3	8.1	102.7	9.7	4.7	73.4	73.4	68.7	77.4	77.4	62.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	165.6	11.3	8.1	102.7	9.7	4.7	73.4	73.4	68.7	77.4	77.4	62.0
LOS by Move:	F	B	A	F	A	A	E	E	E	E	E	E
HCM2k95thQ:	3	34	12	6	33	1	9	9	9	12	12	9

Note: Queue reported is the number of cars per lane.

### Regression Analysis (Speed vs. Travel Time Delay Data under Existing Conditions)



Existing Travel Time (sec)	Existing Speed (mph)
588	23
544	24
362	29
400	27
308	31
269	34
353	30
341	30

## **Appendix C**

### **TDF Model Roadway Improvement Assumptions**



YEAR 2023 MODEL NETWORK IMPROVEMENTS CONSIDERED/IMPLEMENTED\*

RTPID	Improvement
17-07-0025	I-280/Winchester Blvd Interchange Improvements. Improve I-280/ Winchester Blvd Interchange to relieve congestion and improve operations and local circulation.
17-07-0031	US 101 Southbound/Trimble Rd./De La Cruz Blvd./Central Expwy interchange improvements - Modify existing loop cloverleaf ramp from SB US 101 to Trimble Rd. into a partial cloverleaf ramp. Modify the SB US 101 on-ramp from De La Cruz Blvd./Central Expwy to 1 mixed-flow and 1 HOV lane with ramp meter. The De La Cruz Blvd. bridge to be widened from 4 to 6 lanes.
17-07-0033	SR 237/Mathilda Ave. and US 101/Mathilda Ave. Interchange Improvement. The project proposes to improve local road operations on Mathilda Avenue in the City of Sunnyvale from Almanor Avenue to Innovation Way, including on- and off-ramp improvements at the State Route (SR) 237/Mathilda Avenue and US 101/Mathilda Avenue interchanges.
17-07-0036	SR 85 Northbound to Eastbound SR 237 Connector Ramp and Northbound SR 85 Auxiliary Lane. Widen off-ramp from Northbound SR 85 to SR 237 Eastbound to two lanes; construct <b>auxiliary lane</b> on Eastbound SR 237 between SR 85 on-ramp to Middlefield Rd.; construct braid off-ramp on Eastbound SR 237 between SR 85 and Dana St.
17-07-0037	SR 85/El Camino Real Interchange Improvements. Improve SR 85 auxiliary lanes between El Camino Real and SR 237, and SR 85/El Camino Real interchange.
17-07-0038	US 101/Blossom Hill Rd. Interchange Improvements. Widen Interchange at U.S. 101/Blossom Hill Road.
17-07-0043	SR 237/El Camino Real/Grant Rd. Intersection Improvements. Widen Westbound SR 237 within the existing median to extend both of the left-turn lanes; lengthen the Northbound El Camino Real right-turn lane onto SR 237 starting the lane at Yuba Drive; widen the Southbound El Camino Real left-turn lane within the existing median; and construct a right-turn lane on Southbound El Camino Real for traffic accessing Westbound Grant Rd.
17-07-0044	Double Lane Southbound US 101 off-ramp to Southbound SR 87. Widen Southbound US 101 freeway connector to Southbound SR 87 to add a second lane and install TDS.
17-07-0051	Widen Calaveras Blvd. overpass from 4 to 6 lanes. Replaces the existing four lane bridge, which currently has a single sidewalk and no bicycle lane over the Union Pacific (UP) Railroad tracks, to a six lane bridge. Project will also add sidewalks and bicycle lanes in both directions.
17-07-0068	237 WB Additional Lane from McCarthy to North First. Corridor Improvements in the cities of San Jose, Santa Clara and Milpitas to address mainline congestion and regional connectivity by the addition of SR 237 westbound auxiliary lane between McCarthy Boulevard and North First Street
17-07-0069	US 101/SR 25 Interchange. The project consists of reconfiguring the interchange at US 101 and SR 25 just south of the City of Gilroy in Santa Clara County, connecting SR 25 and Santa Teresa Boulevard, and widening the existing freeway from 4 to 6 lanes from the Monterey Street interchange to the US 101/SR 25 interchange.
17-07-0070	SR 237 Express Lanes North First St. to Mathilda Ave. Convert HOV to express lane in both directions.
17-07-0081	I-880 Express Lanes: SR-237 to US-101. Convert existing HOV lane to an express lane in both directions between SR 237 and US 101.
17-07-0087	Widen San Tomas Expressway to 8 Lanes from Stevens Creek Blvd to Campbell Ave.
17-07-0005	Minor Roadway Expansions. This category includes roadway capacity increasing projects (new roadways or widening/extensions of existing roadways) on minor roads throughout Santa Clara County such as Buena Vista Avenue, bridges over US 101 in Gilroy, Blossom Hill Road, Lark Avenue, Pollard Road, Union Avenue, Butterfield Road, San Antonio Road, Charcot Avenue, King Road, Montague Expressway, San Carlos Street, Zanker Road, Coleman Avenue, Autumn Street, Winchester Boulevard, Center Avenue, DeWitt Avenue, Hill Road, Wastonville Road, Mary Avenue, and Wildwood Avenue Santa Clara Auto
17-07-0078	Envision Expressway (Tier 1 Expressway Plan) Major and Minor Projects. Various operational and capacity improvements to expressways in Santa Clara County comprising the Tier 1 investments from the Santa Clara County Expressway Plan. These projects include capacity improvements for Almaden Expressway, Capitol Expressway, Foothill Expressway, Lawrence Expressway, Montague Expressway, Oregon-Page Mill Expressway, San Tomas Expressway, Santa Teresa Boulevard. This project also includes the following ITS/Signal upgrades: Replace/upgrade/add fiber optic lines; upgrade equipment for new technologies; systemwide pedestrian sensors; enhance/replace bicycle and vehicle detection with new technologies on the County expressways.
17-07-0079	Envision Highway Minor Projects. Includes: I-280 NB Second exit lane to Foothill Expressway; SR 17 SB/Hamilton Ave Off-Ramp widening; San Tomas expressway at SR-17 Improvements; US101/SR 152 10th Street Ramp and Intersection Improvements; and Charcot Avenue Extension over I-880.
17-07-0005, 17-07-0078, and 17-07-0079.	Widen Coleman Avenue from 4-lanes to 6-lanes between I-880 and Taylor Street.

YEAR 2023 MODEL NETWORK IMPROVEMENTS CONSIDERED/IMPLEMENTED\*

RTPID	Improvement
17-07-0005, 17-07-0078, and 17-07-0079.	Conversion of one-way couplets to two-way streets along 10th and 11th Streets, Almaden Avenue and Vine Street, and 2nd and 3rd Streets.
17-07-0005, 17-07-0078, and 17-07-0079	Widen San Tomas Expressway to 8 lanes between Williams to El Camino Real.
17-07-0005, 17-07-0078, and 17-07-0079.	Replace and widen San Carlos Street bridge at Caltrain/Vasona LRT.
17-07-0005, 17-07-0078, and 17-07-0079	Realignment of Julian Street between SR 87 and North 1st Street to extend the downtown urban grid system.
17-07-0005, 17-07-0078, and 17-07-0079	Conversion of St. James Street from one-way to two-way street from Notre Dame/SR 87 to Market Street (part of the Julian Realignment project)
17-07-0005, 17-07-0078, and 17-07-0079.	Complete the Autumn Street realignment and extension between St. John Street and Coleman Avenue.
17-07-0005, 17-07-0078, and 17-07-0079.	Convert Autumn Street between Santa Clara Street and Park Avenue from a one-way (northbound) street to a two-way street. Autumn Street will become a 4-lane street.
17-07-0005, 17-07-0078, and 17-07-0079.	Convert Montgomery Street between Santa Clara Street and San Fernando Street from a one-way (southbound) street to a two-way street. Montgomery Street will remain a two-lane street.
17-07-0005, 17-07-0078, and 17-07-0079.	King Road and McKee Road (SJ) - addition of second eastbound left-turn lane.
17-07-0005, 17-07-0078, and 17-07-0079.	SR 87 (E) and Julian Street (SJ) - conversion of the existing northbound shared right-through lane to separate through and right-turn lanes; conversion of the existing westbound shared right through lane to a dedicated right-turn lane.
17-07-0005, 17-07-0078, and 17-07-0079.	Montgomery Street and Santa Clara Street (SJ) - addition of a left-turn and right turn lane on the northbound approach; elimination of one of the existing westbound left-turn lanes.
17-07-0005, 17-07-0078, and 17-07-0079.	Autumn Street and Santa Clara Street (SJ) - addition of a southbound through lane and conversion of the existing southbound right turn lane to shared right-through lane; addition of a eastbound right-turn lane; and addition of two westbound left-turn lanes and a separate westbound right-turn lane.
17-07-0005, 17-07-0078, and 17-07-0079.	Montgomery Street and San Fernando Street (SJ) - addition of an all-movement lane on the northbound approach and conversion of all intersection approaches to single all-movement lanes.
17-07-0005, 17-07-0078, and 17-07-0079.	Autumn Street and San Fernando Street (SJ) - conversion of the existing northbound shared left-through lane to a dedicated left-turn lane; addition of one left-turn, one through, and one shared right-through lane on the southbound approach; and conversion of the existing westbound through lane to a shared left-through lane.
17-07-0005, 17-07-0078, and 17-07-0079.	Montgomery Street and Park Avenue (SJ) - this intersection will become Autumn/Park.
17-07-0005, 17-07-0078, and 17-07-0079.	Autumn Street and Park Avenue (SJ) - intersection lane configuration will include one left, one through, and one shared right-through lane on the northbound approach; one left, one through, and one shared right-through lane on the southbound approach; one left and one shared right-through lane on the eastbound approach; and two left-turn and one shared right-through lane on the westbound approach.
17-07-0005, 17-07-0078, and 17-07-0079.	Bird Avenue and San Carlos Street (SJ) - addition of a second left-turn lane and conversion of the shared right-through lane to exclusive right-turn lane (reducing the number of through lanes by one) on the northbound approach; and elimination of one southbound through lane.
17-07-0005, 17-07-0078, and 17-07-0079.	Autumn Street and Julian Street (SJ) - reconfiguration of the northbound and southbound approaches to include one left-turn, one through, and one shared right-through lane.
17-07-0005, 17-07-0078, and 17-07-0079.	Coleman Avenue and Brokaw Road (SC) - Widening of Coleman Avenue to accommodate a third southbound through lane.

\*Note that some improvements, such as the addition of turn lanes, are too minor to be coded into the countywide model

YEAR 2043 MODEL NETWORK IMPROVEMENTS CONSIDERED/IMPLEMENTED\*

RTPID	Improvement
17-07-0023	US 101/Zanker Rd /Skyport Dr./Fourth St. Interchange Improvements. Construct a new interchange at U.S. 101/Zanker Road/Skyport Drive/Fourth Street.
17-07-0024	Lawrence/Stevens Creek/I-280 Interchange. Provide direct connections between Lawrence Expressway and I-280.
17-07-0025	I-280/Winchester Blvd Interchange Improvements. Improve I-280/Winchester Blvd Interchange to relieve congestion and improve operations and local circulation.
17-07-0026	I-280/Wolfe Road Interchange Improvements. Modify I-280/Wolfe Road Interchange to relieve congestion and improve local circulation.
17-07-0027	US 101/Mabury Rd./Taylor St. Interchange Improvements. Construct interchange at U.S. 101/Mabury Road/Taylor Street.
17-07-0028	I-280 New HOV Lane from San Mateo County line to Magdalena Avenue. Now HOV lane added to I-280 from existing HOV lane at Magdalena Avenue to the San Mateo County Line. Requires constructing a new lane.
17-07-0029	I-280/Saratoga Avenue Interchange Improvements. Modify I-280/Saratoga Avenue interchange to relieve congestion and improve local circulation.
17-07-0030	I-280 Northbound Braided Ramps between Foothill Expressway and SR 85. Improve braided ramps on northbound I-280 between Foothill Expressway and Route 85.
17-07-0031	US 101 Southbound/Trimble Rd./De La Cruz Blvd./Central Expwy interchange improvements - Modify existing loop cloverleaf ramp from SR US 101 to Trimble Rd. into a partial cloverleaf ramp. Modify the SR US 101 on-ramp from De La Cruz Blvd./Central Expwy to 1 mileflow and 1 HOV lane with ramp meter. The De La Cruz Blvd bridge to be widened from 4 to 6 lanes.
17-07-0032	I-680/ Alum Rock/ McKee Road Interchange Improvements. Reconfigure interchange, improve access for all modes of transportation, improve traffic operations and relieve congestion at the I-680/ Alum Rock and I-680/ McKee Road interchanges. Construct an Express Bus Station in the Median of I-680 to connect buses using HOV or Express Lanes with Santa Clara Alum Rock BRT Station
17-07-0033	SR 237/Mathilda Ave. and US 101/Mathilda Ave. Interchange Improvement. The project proposes to improve local road operations on Mathilda Avenue in the City of Sunnyvale from Almenor Avenue to Innovation Way, including on- and off-ramp improvements at the State Route (SR) 237/Mathilda Avenue and US 101/Mathilda Avenue interchanges.
17-07-0034	US 101 Interchanges Improvements: San Antonio Rd to Charleston Rd./Rengstorff Ave. Improve U.S. 101 interchanges at San Antonio Road to Charleston Road/Rengstorff Avenue including new auxiliary lane.
17-07-0035	US 101/Buena Vista Ave. Interchange Improvements. Construct a full interchange at US 101 and Buena Vista Avenue in Gilroy. The interchange includes a flyover southbound on-ramp to braid with the existing truck exit at the CIP Inspection Station. Off-ramp diagonal ramps will be constructed.
17-07-0036	SR 85 Northbound to Eastbound SR 237 Connector Ramp and Northbound SR 85 Auxiliary Lane. Widen off-ramp from Northbound SR 85 to SR 237 Eastbound to two lanes; construct auxiliary lane on Eastbound SR 237 between SR 85 on-ramp to Middlefield Rd.; construct braided off-ramp on Eastbound SR 237 between SR 85 and Dana St
17-07-0037	SR 85/El Camino Real Interchange Improvements. Improve SR 85 auxiliary lanes between El Camino Real and SR 237, and SR 85/El Camino Real interchange.
17-07-0038	US 101/Blossom Hill Rd. Interchange Improvements. Widen Interchange at U.S. 101/Blossom Hill Road.
17-07-0039	US 101/Old Oakland Rd. Interchange Improvements. Improve interchange at U.S. 101/Old Oakland Road.
17-07-0040	US 101/Shoreline Blvd. Interchange Improvements. Interchange improvements at Shoreline Boulevard.
17-07-0042	SR 237/Great America Parkway WB Off-Ramps Improvements. Modify WB off-ramps at the SR 237/Great America Parkway interchange to improve traffic operations and relieve congestion
17-07-0043	SR 237/El Camino Real/Grant Rd. Intersection Improvements. Widen Westbound SR 237 within the existing median to extend both of the left-turn lanes; lengthen the Northbound El Camino Real right-turn lane onto SR 237 starting the lane at Yuba Drive; widen the Southbound El Camino Real left-turn lane within the existing median; and construct a right-turn lane on Southbound El Camino Real for traffic accessing Westbound Grant Rd.
17-07-0044	Double Lane Southbound US 101 off-ramp to Southbound SR 87. Widen Southbound US 101 freeway connector to Southbound SR 87 to add a second lane and install TOS.
17-07-0051	Widen Calaveras Blvd. overpass from 4 to 6 lanes. Replaces the existing four lane bridge, which currently has a single sidewalk and no bicycle lane over the Union Pacific (UP) Railroad tracks, to a six lane bridge. Project will also add sidewalks and bicycle lanes in both directions.
17-07-0067	SR 17 Corridor Congestion Relief in Los Gatos. Operational Improvements for the SR 17 Corridor, including upgrading Highway 17/Highway 9 interchange to improve pedestrian and bicycle safety, mobility, and roadway operations; deploying advanced transportation technology to reduce freeway cut thru traffic in Los Gatos, including traffic signal control system upgrades in Los Gatos, traveler information system, advanced ramp metering systems and multi-modal congestion relief solutions
17-07-0068	237 WB Additional Lane from McCarthy to North First. Corridor Improvements in the cities of San Jose, Santa Clara and Milpitas to address mainline congestion and regional connectivity by the addition of SR 237 westbound auxiliary lane between McCarthy Boulevard and North First Street.
17-07-0069	US 101/SR 25 Interchange. The project consists of reconfiguring the interchange at US 101 and SR 25 just south of the City of Gilroy in Santa Clara County, connecting SR 25 and Santa Teresa Boulevard, and widening the existing freeway from 4 to 6 lanes from the Monterey Street interchange to the US 101/SR 25 interchange.
17-07-0070	SR 237 Express Lanes. North First St. to Mathilda Ave. Convert HOV to express lane in both directions.
17-07-0074	SR 85 Express Lanes. US 101 (South San Jose) to Mountain View. SR 85 typically has 1 HOV lane and 2 general purpose lanes in both directions with auxiliary lane in some segments. Project will convert existing HOV lane to express lane and add a second express lane between SR 87 and I-280 in both directions.
17-07-0075	US 101 Express Lanes. Whipple Ave. in San Mateo County to Cochrane Road in Morgan Hill. Convert HOV Lanes to express lane and add a second express lane in some segments.
17-07-0076	Santa Clara County Express Lanes Operations and Maintenance. This program includes operations and maintenance for the Santa Clara County (VTA) Express Lanes
17-07-0081	I-880 Express Lanes. SR-237 to US-101. Convert existing HOV lane to an express lane in both directions between SR 237 and US 101.
17-07-0082	SR-87 Express Lanes. I-880 to SR-85. Convert existing HOV lane to an express lane in both directions between I-880 and SR-85.
17-07-0083	I-680 Express Lanes. SR-237 to US-101. Convert existing general purpose lane to an express lane in both directions between SR-237 and US-101.
17-07-0084	I-280 Express Lanes. US-101 to Magdalena Avenue. Convert existing HOV lane to an express lane in both directions between US 101 and Magdalena Avenue.
17-07-0087	Widen San Tomas Expressway to 8 Lanes from Stevens Creek Blvd to Campbell Ave.

YEAR 2043 MODEL NETWORK IMPROVEMENTS CONSIDERED/IMPLEMENTED\*

RTPID	Improvement
17-07-0088	Senter Road Widening from Umbarger to Lewis. Widening Senter Road between Umbarger Rd. and Lewis Rd. from 4 to 6 lanes with improved bicycle/ped facilities and install median landscaping.
17-07-0089	South Bascom Complete Streets. On South Bascom Ave. from Parkmoor Ave. to Southwest Expressway reduce the road to two lanes and make bicycle and pedestrian improvements in the corridor.
17-07-0091	Widen Oakland Road from 4-lanes to 6-lanes between U.S. 101 and Montague Expressway. Widens Oakland Rd. from 4 to 6 lanes between US 101 and Montague Expwy. Also provides median island
17-07-0095	Minor Roadway Expansions. This category includes roadway capacity increasing projects (new roadways or widening/extensions of existing roadways) on minor roads throughout Santa Clara County such as Buena Vista Avenue, bridges over US 101 in Gilroy, Blossom Hill Road, Lark Avenue, Pollard Road, Union Avenue, Butterfield Road, San Antonio Road, Charcot Avenue, King Road, Montague Expressway, San Carlos Street, Zanker Road, Coleman Avenue, Autumn Street, Winchester Boulevard, Center Avenue, DeWitt Avenue, Hill Road, Wastonville Road, Mary Avenue, and Wildwood Avenue Santa Clara Auto
17-07-0078	Envision Expressway (Tier 1 Expressway Plan) Major and Minor Projects. Various operational and capacity improvements to expressways in Santa Clara County comprising the Tier 1 investments from the Santa Clara County Expressway Plan. These projects include capacity improvements for Almaden Expressway, Capitol Expressway, Foothill Expressway, Lawrence Expressway, Montague Expressway, Oregon-Page Mill Expressway, San Tomas Expressway, Santa Teresa Boulevard. This project also includes the following ITS/Signal upgrades: Replace/upgrade/add fiber optic lines; upgrade equipment for new technologies; systemwide pedestrian sensors; enhance/replace bicycle and vehicle detection with new technologies on the County expressways.
17-07-0079	Envision Highway Minor Projects. Includes: 1-280 NB Second exit lane to Foothill Expressway, SR 17 SB/Hamilton Ave Off-Ramp widening, San Tomas expressway at SR-17 Improvements; US101/SR 152 10th Street Ramp and Intersection Improvements, and Charcot Avenue Extension over I-880.
17-07-0005, 17-07-0078, and 17-07-0079.	Widen Coleman Avenue from 4 lanes to 6-lanes between I-880 and Taylor Street.
17-07-0005, 17-07-0078, and 17-07-0079.	Conversion of one-way couplets to two-way streets along 10th and 11th Streets, Almaden Avenue and Vine Street, and 2nd and 3rd Streets.
17-07-0005, 17-07-0078, and 17-07-0079.	Widen San Tomas Expressway to 8 lanes between Williams to El Camino Real
17-07-0005, 17-07-0078, and 17-07-0079.	Replace and widen San Carlos Street bridge at Caltrain/Vasona LRT.
17-07-0005, 17-07-0078, and 17-07-0079.	Realignment of Julian Street between SR 87 and North 1st Street to extend the downtown urban grid system
17-07-0005, 17-07-0078, and 17-07-0079.	Conversion of St. James Street from one-way to two-way street from Notre Dame/SR 87 to Market Street (part of the Julian Realignment project).
17-07-0005, 17-07-0078, and 17-07-0079.	Complete the Autumn Street realignment and extension between St. John Street and Coleman Avenue.
17-07-0005, 17-07-0078, and 17-07-0079.	Convert Autumn Street between Santa Clara Street and Park Avenue from a one-way (northbound) street to a two-way street. Autumn Street will become a 4-lane street.
17-07-0005, 17-07-0078, and 17-07-0079.	Convert Montgomery Street between Santa Clara Street and San Fernando Street from a one-way (southbound) street to a two-way street. Montgomery Street will remain a two-lane street.
17-07-0005, 17-07-0078, and 17-07-0079.	Create cul-de-sac at southerly end of Montgomery Street, just north of Park Avenue.
17-07-0005, 17-07-0078, and 17-07-0079.	I-280 between US 101 and Leland Avenue - convert one mixed-flow lane to express lanes.
17-07-0005, 17-07-0078, and 17-07-0079.	I-680 between Montague Expressway and US 101 - convert one mixed-flow lane to express lanes.
17-07-0005, 17-07-0078, and 17-07-0079.	I-280 Downtown San Jose access improvements between 3rd and 7th Streets - reconstruct existing ramps at 7th and 4th Streets. The existing off-ramp connection at 5th Street will be eliminated.
17-07-0005, 17-07-0078, and 17-07-0079.	I-280/Senter Road interchange - extend Senter Road and construct new on-/off-ramps and modify existing on-/off-ramps into a collector/distributor ramp system.
17-07-0005, 17-07-0078, and 17-07-0079.	King Road and McKee Road (SJ) - addition of second eastbound left-turn lane.
17-07-0005, 17-07-0078, and 17-07-0079.	SR 87 (E) and Julian Street (SJ) - conversion of the existing northbound shared right-through lane to separate through and right-turn lanes; conversion of the existing westbound shared right-through lane to a dedicated right-turn lane.
17-07-0005, 17-07-0078, and 17-07-0079.	Montgomery Street and Santa Clara Street (SJ) - addition of a left-turn and right turn lane on the northbound approach; elimination of one of the existing westbound left-turn lanes.
17-07-0005, 17-07-0078, and 17-07-0079.	Autumn Street and Santa Clara Street (SJ) - addition of a southbound through lane and conversion of the existing southbound right turn lane to shared right-through lane, addition of a eastbound right-turn lane; and addition of two westbound left-turn lanes and a separate westbound right-turn lane.
17-07-0005, 17-07-0078, and 17-07-0079.	Montgomery Street and San Fernando Street (SJ) - addition of an all-movement lane on the northbound approach and conversion of all intersection approaches to single all-movement lanes
17-07-0005, 17-07-0078, and 17-07-0079.	Autumn Street and San Fernando Street (SJ) - conversion of the existing northbound shared left-through lane to a dedicated left-turn lane, addition of one left-turn, one through, and one shared right-through lane on the southbound approach; and conversion of the existing westbound through lane to a shared left-through lane.
17-07-0005, 17-07-0078, and 17-07-0079.	Montgomery Street and Park Avenue (SJ) - this intersection will become Autumn/Park.
17-07-0005, 17-07-0078, and 17-07-0079.	Autumn Street and Park Avenue (SJ) - intersection lane configuration will include one left, one through, and one shared right-through lane on the northbound approach; one left, one through, and one shared right-through lane on the southbound approach; one left and one shared right-through lane on the eastbound approach, and two left-turn and one shared right-through lane on the westbound approach.
17-07-0005, 17-07-0078, and 17-07-0079.	Bird Avenue and San Carlos Street (SJ) - addition of a second left-turn lane and conversion of the shared right-through lane to exclusive right-turn lane (reducing the number of through lanes by one) on the northbound approach, and elimination of one southbound through lane.
17-07-0005, 17-07-0078, and 17-07-0079.	Autumn Street and Julian Street (SJ) - reconfiguration of the northbound and southbound approaches to include one left-turn, one through, and one shared right-through lane.
17-07-0005, 17-07-0078, and 17-07-0079.	Coleman Avenue and Brokaw Road (SC) - Widening of Coleman Avenue to accommodate a third southbound through lane

\*Note that some improvements, such as the addition of turn lanes, are too minor to be coded into the countywide model

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# Attachment E

## Noise and Vibration Assessment



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## MEMORANDUM

**To:** Chris Adams, PE  
**BKF**

**From:** Christopher Layman, PhD  
Roberto Della Neve  
**ATS Consulting**

**Date:** September 21, 2018

**Subject:** EBRC - CELR Noise and Vibration Assessment

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## **1. EXECUTIVE SUMMARY**

This technical report documents the findings of potential light rail noise and vibration impacts for the proposed changes to the Eastridge to BART Regional Connector (formerly Capitol Expressway Light Rail) or EBRC-CELR. An assessment has been performed for both the construction and operation of the light rail system and has used assessment criteria established in the Federal Transit Administration's Guidance Manual for *Transit Noise and Vibration Impact Assessment* (2006). The assessment includes all likely sensitive receivers along the corridor. The EBRC-CELR is the last portion of the Capitol Expressway Transit Improvement Project that transforms Capitol Expressway into a multi-modal boulevard offering bus rapid transit, light rail transit and safe connections to the regional transit system. The current assessment provides an update to the 2005 Environmental Impact Report (EIR), 2007 Supplemental EIR (SEIR), 2012 Supplemental Draft Environmental Impact Statement (SDEIS), and the 2014 Subsequent Mitigated Negative Declaration. The basis for the update is a design change in the roadway configuration and aerial guideway near Westboro Drive (973+00), and in the track structure from at-grade ballasted to aerial guideway in the region along Capitol Expressway between Tudor Court (1003+00) and Cunningham Avenue (1050+00). While there are other changes proposed to the project, these changes are not anticipated to affect noise and vibration. This analysis has utilized newly acquired measurements of existing noise performed by ICF, previous measurements that characterize vibration propagation in the project area, and additional data where relevant.

### **1.1 Summary of Operational Impacts**

#### **1.1.1 Operational Noise Impacts**

The analysis indicates that for year 2017 the project will result in 78 moderate and 23 severe unmitigated noise impacts and for year 2043 the project will result in 96 moderate and 59 severe unmitigated noise impacts. Table 1 summarizes the predicted light rail operational noise impacts. VTA policy is that for all severe noise impacts, noise mitigation measures will be included in the project if reasonable and feasible. For receivers where a moderate impact is predicted mitigation is not required under CEQA. However, VTA will include open-graded asphalt concrete (OGAC) in the project since VTA will need to repave most of Capitol Expressway at the end of construction. The analysis indicates that for year 2017 the project will result in 45 moderate and 0 severe noise impacts and for year 2043 there are 116 moderate and 0 severe noise impacts after the inclusion of aerial guideway sound walls. With the additional inclusion of OGAC all moderate and severe impacts are eliminated for years 2017 and 2043.



**Table 1: Summary of Operational Noise Impacts**

Section	Number – Type of Receivers	Existing Noise (Ldn)	Number of Predicted FTA Impacts					
			Unmitigated 2043 (2017)		w/ Aerial Sound Wall 2043 (2017)		w/ Aerial Sound Wall & OGAC 2043 (2017)	
			Mod	Severe	Mod	Severe	Mod	Severe
NB 964+50 to 981+20 Wilbur Ave. to Mervyns Way	22 - SFR	70-78	18 (12)	1 (0)	0 (0)	0 (0)	0 (0)	0 (0)
NB 986+70 to 995+50 Mervyns Way to Story Rd.	5 - INST/COM	72-73	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
NB 998+50 to 1035+90 Story Rd. to Ocala Ave.	41 - SFR	68-75	38 (5)	3 (0)	28 (3)	0 (0)	0 (0)	0 (0)
NB 1037+60 to 1049+50 Ocala Ave. to Cunningham Ave.	27 - SFR	65-67	0 (6)	27 (21)	27 (27)	0 (0)	0 (0)	0 (0)
SB 967+50 to 970+50 S. Capitol Ave.	5 - SFR	67-73	4 (0)	0 (0)	1 (0)	0 (0)	0 (0)	0 (0)
SB 971+30 to 973+00 S. Capitol Ave.	2 - COM	71-74	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
SB 978+00 to 992+70 Excalibur Dr. to Story Rd.	25 - SFR	72-75	25 (21)	0 (0)	23 (14)	0 (0)	0 (0)	0 (0)
SB 993+10 to 996+50 Story Rd.	3 - COM	73-74	2 (0)	0 (0)	2 (0)	0 (0)	0 (0)	0 (0)
SB 998+80 to 1007+20 Story Rd. to Foxdale Loop	17 - SFR	65-73	4 (16)	13 (1)	16 (0)	0 (0)	0 (0)	0 (0)
SB 1009+00 E. Capitol Expy.	1 - COM	74	1 (0)	0 (0)	1 (0)	0 (0)	0 (0)	0 (0)
SB 1012+00 to 1018+00 Foxdale Loop	3 - MFR	69	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
SB 1021+00 to 1035+80 Foxdale Dr. to Ocala Ave.	19 - SFR	65-67	4 (18)	15 (1)	18 (1)	0 (0)	0 (0)	0 (0)
<b># Impacts:</b>			<b>96 (78)</b>	<b>59 (23)</b>	<b>116 (45)</b>	<b>0 (0)</b>	<b>0 (0)</b>	<b>0 (0)</b>

SFR: Single-Family Residence, MFR: Multi-Family Residence, COM: Commercial/Office Space, INST: Institutional

**1.1.2 Operational Vibration Impacts**

The results of this analysis indicate that ground vibration generated on the aerial guideway (direct fixation fasteners) and ballasted track on embankment sections may exceed the FTA detailed vibration analysis



nighttime impact criteria at 73 receivers, as shown in Table 2. Nighttime is defined as 10:00 pm to 7:00 am. Potentially, receivers within 100 feet of the aerial guideway may exceed the nighttime criteria. It is noted that beyond approximately 50 feet from aerial guideway supports it is unusual to have vibration levels exceed FTA criteria. Most of these impacts are anticipated to occur between 6:00 am and 7:00 am when VTA would be operating at peak service levels. No daytime vibration impacts are predicted under current train parameters, schedules, headways, and speeds. It is noted that there is no distinction for current year (2017) and future year (2043) vibration predictions, since vibration criteria are not based on cumulative increases in vibration levels as is the case with noise. The analysis indicates that there are 72 vibration impacts after the inclusion of tire derived aggregate (TDA) at the at-grade and embankment sections of the alignment. If a floating slab track (FST) or bridge bearing vibration isolation system is used, all operational vibration impacts could be removed. Since there are only a few examples of FST and bridge bearing isolation systems in operation on an aerial structure, additional analysis of the effectiveness of these measures would be needed to confirm the level of vibration reduction that would be achieved.

**Table 2: Summary of Operational Vibration Impacts**

Direction/Section	Number – Type of Receivers	Impact Criteria (VdB) <sup>1</sup>	Number of Predicted FTA Impacts	
			Unmitigated	w/ TDA <sup>3</sup>
NB 964+50 to 981+20 Wilbur Ave. to Mervyns Way	22 – SFR	72 - 78	14	14
NB 986+70 to 995+50 Mervyns Way to Story Rd.	5 – INST/COM	78-84 <sup>2</sup>	0	0
NB 998+50 to 1035+90 Story Rd. to Ocala Ave.	41 – SFR	72 - 78	4	4
NB 1037+60 to 1049+50 Ocala Ave. to Cunningham Ave.	27 – SFR	72 - 78	21	21
SB 967+50 to 970+50 S. Capitol Ave.	5 – SFR	72 - 78	3	2
SB 971+30 to 973+00 S. Capitol Ave.	2 – COM	84 <sup>2</sup>	0	0
SB 978+00 to 992+70 Excalibur Dr. to Story Rd.	25 – SFR	72 - 78	2	2
SB 993+10 to 996+50 Story Rd.	3 – COM	84 <sup>2</sup>	0	0
SB 998+80 to 1007+20 Story Rd. to Foxdale Loop	17 – SFR	72 - 78	15	15
SB 1009+00 E. Capitol Expy.	1 – COM	84 <sup>2</sup>	0	0
SB 1012+00 to 1018+00 Foxdale Loop	3 – MFR	72 - 78	0	0
SB 1021+00 to 1035+80 Foxdale Dr. to Ocala Ave.	19 – SFR	72 - 78	14	14
<b># Impacts:</b>			<b>73</b>	<b>72</b>

<sup>1</sup>FTA nighttime impact criteria of 72 VdB and daytime of 78 VdB.

<sup>2</sup>Impact threshold for offices and non-sensitive areas.

<sup>3</sup>TDA is only at the at-grade and embankment sections.



## 1.2 Summary of Pile Driving Impacts

Pile driving would be conducted to install foundation piles for the aerial guideway. Both noise and vibration produced from the impact pile driving would potentially exceed FTA recommended construction criteria. The number of construction noise and vibration impacts has increased over the 2007 SEIR due to an increase in the number support columns from changing at-grade track to aerial guideway.

### 1.2.1 Pile Driving Noise Impacts

Unobstructed homes and businesses (i.e. not shielded by other structures or sound walls) within 300 ft of impact pile driving activity may exceed the FTA construction noise criteria of 80 dBA Leq over an 8-hour workday, as shown in Table 3. The noise impacts would have a duration of eight to fifteen days per receiver. This analysis indicates that 156 receivers in the Project area will exceed the FTA construction noise threshold for an 8-hour day. With the inclusion of an impact cushion the number of construction noise impacts is predicted to be 135, and with the addition of pre-drilling one third of the pile there are 80 predicted noise impacts. After the inclusion of an appropriately designed noise shield around the pile equipment there would be 2 predicted noise impacts.

**Table 3: Summary of Impact Pile Driving Noise Impacts**

Direction/Section	Number - Type of Receivers	FTA Impact Criteria Leq (8-hr) dBA <sup>1</sup>	Number of Predicted FTA Impacts			
			Unmitigated	w/ Impact Cushion <sup>2</sup>	w/ Impact Cushion & Pre-Drill 1/3 of Pile	w/ Impact Cushion & Noise Shield <sup>3</sup>
NB 964+50 to 981+20 Wilbur Ave. to Mervyns Way	22 - SFR	80	15	11	9	2
NB 986+70 to 995+50 Mervyns Way to Story Rd.	5 - INST/COM	80/85	5	3	2	0
NB 998+50 to 1035+90 Story Rd. to Ocala Ave.	41 - SFR	80	41	40	25	0
NB 1037+60 to 1049+50 Ocala Ave. to Cunningham Ave.	27 - SFR	80	27	22	9	0
SB 967+50 to 970+50 S. Capitol Ave.	5 - SFR	80	2	0	0	0
SB 971+30 to 973+00 S. Capitol Ave.	2 - COM	85	2	2	1	0
SB 978+00 to 992+70 Excalibur Dr. to Story Rd.	25 - SFR	80	21	21	21	0
SB 993+10 to 996+50 Story Rd.	3 - COM	85	3	1	0	0
SB 998+80 to 1007+20 Story Rd. to Foxdale Loop	17 - SFR	80	17	12	2	0
SB 1009+00 E. Capitol Expy.	1 - COM	85	1	1	0	0
SB 1012+00 to 1018+00 Foxdale Loop	3 - MFR	80	3	3	0	0



SB 1021+00 to 1035+80 Foxdale Dr. to Ocala Ave.	19 - SFR	80	19	19	11	0
		<b># Impacts</b>	<b>156</b>	<b>135</b>	<b>80</b>	<b>2</b>

<sup>1</sup>Criteria for SFR/MFR is Leq (8-hr) 80 dBA, and for COM it is Leq (8-hr) 85 dBA

<sup>2</sup>Assumes impact cushion provides 5 dBA reduction.

<sup>3</sup>Assumes impact cushion + noise shield provides 15 dBA reduction.

### 1.2.2 Pile Driving Vibration Impacts

This analysis has shown that homes within 100 ft of impact pile driving activity may exceed FTA construction vibration criteria, shown in Table 4. There are 64 predicted unmitigated construction vibration impacts, and 0 impacts with the use of non-impact pile driving methods. It is noted that the use of non-impact pile driving methods may not be reasonable and feasible at all locations where minor vibration exceedance are predicted to occur. For the closest receivers the use of drilled piles plus a suitable sound barrier around the work site will eliminate both construction noise and construction vibration impacts.

**Table 4: Summary of Impact Pile Driving Vibration Impacts**

Direction/Section	Number – Type of Receivers	Annoy. Criteria PPV, (in/s) <sup>1</sup>	FTA Damage Criteria PPV, (in/s) <sup>2</sup>	Number of Predicted FTA Impacts	
				Unmitigated	w/ Non-Impact Piling <sup>3</sup>
NB 964+50 to 981+20 Wilbur Ave. to Mervyns Way	22 - SFR	0.03	0.2	9	0
NB 986+70 to 995+50 Mervyns Way to Story Rd.	5 - INST/COM	0.06	0.5	0	0
NB 998+50 to 1035+90 Story Rd. to Ocala Ave.	41 - SFR	0.03	0.2	5	0
NB 1037+60 to 1049+50 Ocala Ave. to Cunningham Ave.	27 - SFR	0.03	0.2	21	0
SB 967+50 to 970+50 S. Capitol Ave.	5 - SFR	0.03	0.2	0	0
SB 971+30 to 973+00 S. Capitol Ave.	2 - COM	0.06	0.5	0	0
SB 978+00 to 992+70 Excalibur Dr. to Story Rd.	25 - SFR	0.03	0.2	0	0
SB 993+10 to 996+50 Story Rd.	3 - COM	0.06	0.5	0	0
SB 998+80 to 1007+20 Story Rd. to Foxdale Loop	17 - SFR	0.03	0.2	15	0
SB 1009+00 E. Capitol Expy.	1 - COM	0.03	0.5	0	0
SB 1012+00 to 1018+00 Foxdale Loop	3 - MFR	0.03	0.2	0	0
SB 1021+00 to 1035+80 Foxdale Dr. to Ocala Ave.	19 - SFR	0.03	0.2	14	0
			<b># Impacts</b>	<b>64</b>	<b>0</b>

<sup>1</sup>Annoyance criteria based on an equivalent PPV to RMS value of 78 VdB for SFR/MFR and 84 VdB for COM, assuming a crest factor of 4.

<sup>2</sup>Damage criteria based on FTA Guidance Manual.



<sup>3</sup> Cast in drilled hole piles (CIDH). If vibratory driven piles are used one impact would remain at NB 977+70 (660 S. Capitol Ave.)

## 2. INTRODUCTION

This study updates the environmental analysis regarding noise and vibration impacts for the Santa Clara Valley Transportation Authority (VTA) Eastridge to BART Regional Connector (formerly Capitol Expressway Light Rail or CELR) Project (Project). The report has drawn primarily on the noise and vibration study prepared for the Supplemental Environmental Impact Report (SEIR) in 2007 and the Supplemental Draft Environmental Impact Statement (SEIS) in 2012. The purpose of this update is to provide an assessment of two design changes that could potentially affect noise and vibration levels. These design changes consist of a change in the roadway configuration and aerial guideway near Westboro Drive (973+00), and in the track structure from at-grade ballasted to aerial guideway in the region along Capitol Expressway between Tudor Court (1003+00) and Cunningham Avenue (1050+00). The update assesses current year (2017) and future year (2043) impacts due to the planned light rail transit (LRT) system and is performed in accordance to the Federal Transit Administration's (FTA) Guidance Manual for *Transit Noise and Vibration Impact Assessment* (2006)\*.

This study addresses the LRT Build alternative. The No-Build alternative has been assessed in the 2012 SDEIS, which includes a bus rapid transit (BRT) system implemented as a separate VTA project. The BRT is currently operational in the Project area along Capitol Expressway. In this report, the following information is presented:

- Ambient noise survey – updated from the original in 2001, 2006 and 2010
- Noise projections for years 2017 and 2043 (which includes growth in traffic and BRT)
- Vibration projections for the LRT
- Noise and vibration estimates for the construction of the aerial guideway
- Effect of noise and vibration control measures

Figure 1 shows the Project map with major design elements, and Figure 2 shows an aerial overview of the Project along with locations of the current and previous existing noise measurements and locations of the previous vibration propagation measurements.

### 2.1 Project Noise Concerns

Noise produced from light rail operations includes noise from steel wheels rolling on steel rails (wheel/rail noise) and from propulsion motors, air conditioning and other auxiliary equipment on the vehicles. At the time of this study the maximum operating speed considered for the light rail ranges from 35 to 55 miles per hour (mph). A key assumption in the noise predictions is that the optimal wheel and rail profiles would be maintained through periodic truing of the wheels and rail grinding. The track section in the Project does not include any grade crossings, special trackwork (crossovers, frogs, turnouts), or low radius curves, hence noise concerns from these sources are not anticipated. A traction power substation is planned for the southwest corner of Ocala Avenue, however given the distance from

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\* *Transit Noise and Vibration Impact Assessment*, Federal Transit Administration Document Number FTA-VA-90-1003-06, May 2006



this location to the nearest receiver the substation will not contribute to the Project total noise levels in a meaningful way.

Noise produced during the construction of the aerial structure is a major concern and is included in the analysis. Pile driving in close proximity to a densely populated area has the potential to produce severe, albeit temporary, noise impact to local residents and businesses.

## **2.2 Project Vibration Concerns**

Light rail operations create groundborne vibration that can be intrusive to occupants of buildings close to the tracks. Note that the FTA impact criteria for vibration are based on annoyance, and the predicted levels of light rail vibration at all receivers are well below the thresholds used to protect sensitive and fragile historic structures from damage. The potential for vibration from light rail operations to be annoying to occupants of historic structures is based on the appropriate vibration impact criteria for the current use of the building. A key assumption in the vibration predictions is that the optimal wheel and rail profiles would be maintained through periodic truing of the wheels and rail grinding. There are no anticipated secondary vibration sources such as special trackwork.

Vibration produced during the construction of the aerial structure is a major concern and is included in the analysis. As with noise, pile driving generated vibration in close proximity to a densely populated area has the potential to produce temporary impacts to local residents and businesses.



Figure 1: EBRC – CELR Project Map





**Figure 2: EBRC Project Area from STA 965+00 to STA 1003+00. Current and Previous Existing Noise and Vibration Propagation Measurements Indicated**



**Figure 3: EBRC Project Area from STA 1003+00 to STA 1050+00. Current and Previous Existing Noise and Vibration Propagation Measurements Indicated**



### **3. REGULATORY FRAMEWORK**

Noise and vibration impact criteria that apply to this project are described below. As part of the regulatory framework discussion, typical terminology for noise and vibration are used; for more information on the basics of noise and vibration, including definitions of the technical terms used in this report, refer to Appendix A: Noise and Vibration Basics.

#### **3.1 State and Local Noise and Vibration Limits**

No state statutes related to noise and vibration apply to the operation of the proposed project and therefore the FTA Noise and Vibration guidelines are used. The FTA guidelines, analysis methods and criteria reflect the best available research on the topic.

Where applicable noise and vibration limits will also follow the City of San José General Plan\* EC-1.1 to EC-2.4. For construction noise, section EC-1.7 of the General Plan requires construction operations within San José to use best available noise suppression devices and techniques and limit construction hours near residential uses per the City's Municipal Code. The City considers significant construction noise impacts to occur if a project located within 500 feet of residential uses or 200 feet of commercial or office uses would:

- Involve substantial noise generating activities (such as building demolition, grading, excavation, pile driving, use of impact equipment, or building framing) continuing for more than 12 months.

Ordinance Number 26594 of Section 20.100.450 of Chapter 20.100 of Title 20 of the San Jose Municipal Code states that unless otherwise expressly allowed in a Development Permit or other planning approval, no construction activity is permitted within 500 feet of a residential unit before 7:00 AM or after 7:00 PM, Monday through Friday, or at any time on weekends.

In the absence of any explicit local noise and vibration standards for daytime construction activity the FTA Noise and Vibration guidelines are used. Construction noise limits are discussed in Section 7 as part of the construction noise and vibration impact assessment.

The City of San José General Plan defers to FTA guidelines for vibration impact criteria.

#### **3.2 FTA Noise Impact Criteria**

The noise impact criteria for use on federally funded transit projects are defined in the FTA Guidance Manual for *Transit Noise and Vibration Impact Assessment* (2006; also referred to as FTA Guidance Manual). The FTA criteria are based on the best available research on community response to noise. This research shows that characterizing the overall noise environment using measures of noise exposure provides the best correlation with human annoyance. Noise exposure characterizes noise levels over a period of time.

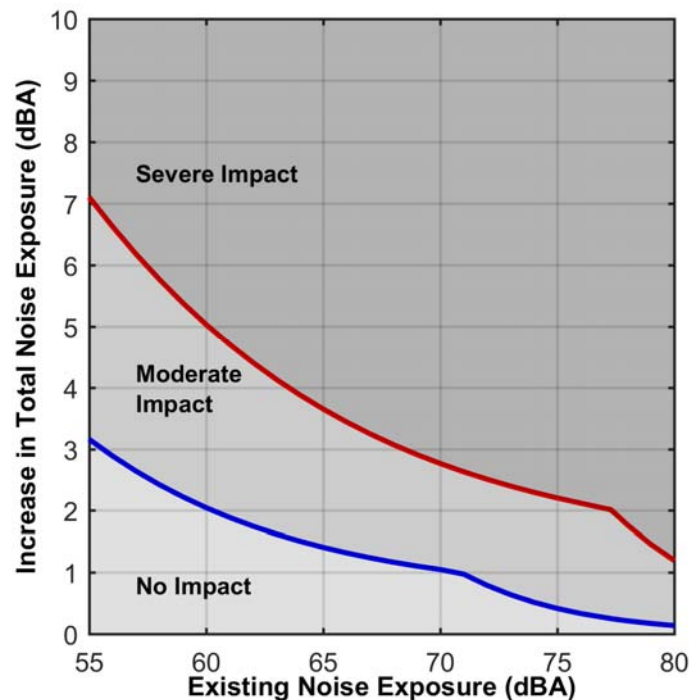
FTA noise criteria in terms of the allowable increase in the cumulative noise exposure are shown in Figure 4. The cumulative or total noise is the logarithmic sum of the Existing and Project noise levels. The horizontal axis is the existing noise exposure and the vertical axis is the increase in cumulative noise level due to the transit project. For example, if the Existing noise is 60 dBA then a Project noise level of 58 dBA would cause a moderate impact (total noise of 62 dBA) and Project noise level of 63 dBA would cause a severe impact (total noise of 65 dBA).

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\* [http://planning.sanjoseca.gov/planning/gp\\_update/FinalText/ESJ2040GeneralPlan\\_12-1-2011.pdf](http://planning.sanjoseca.gov/planning/gp_update/FinalText/ESJ2040GeneralPlan_12-1-2011.pdf)



The FTA noise impact threshold is a sliding scale based on existing noise exposure and land use of sensitive receivers. The measure of noise exposure is Ldn for residential areas (Category 2) and Leq for land uses that do not have nighttime noise sensitivity (Category 1). Since Ldn and Leq are measures of total acoustic energy, any new noise source in a community will cause an increase, even if the new source level is less than the existing level. As the existing level of ambient noise increases, the allowable level of transit noise increases, but the total amount that community noise exposure is allowed to increase is reduced. The land use surrounding the Project area is primarily residential, which falls into FTA Land Use Category 2.



**Figure 4: Increase in Cumulative Noise Level Allowed by FTA Criteria for Land Use Categories 1 (Leq) and 2 (Ldn).**

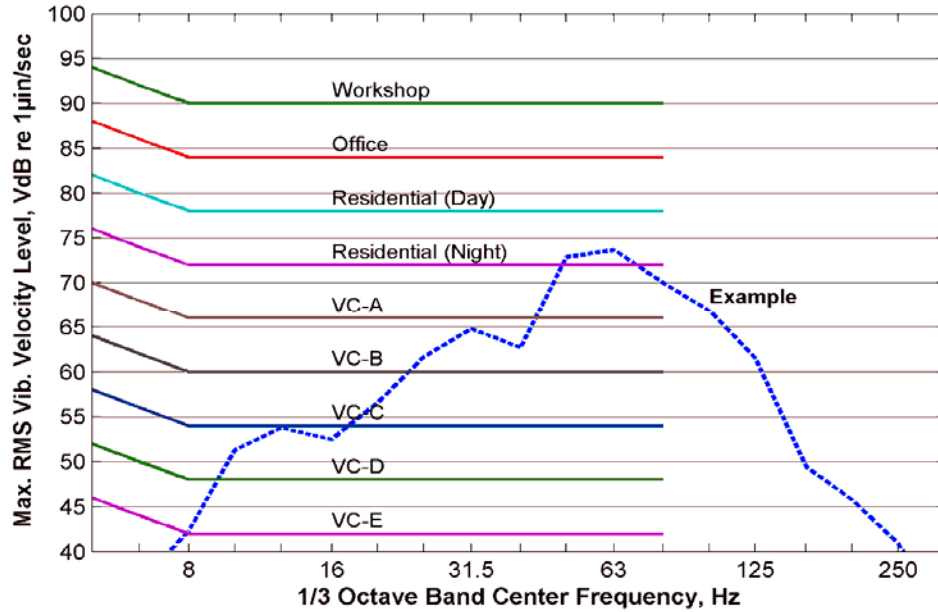
### 3.3 FTA Groundborne Vibration and Groundborne Noise Criteria

The FTA Guidance Manual provides two sets of criteria for groundborne vibration: one based on the overall vibration velocity level for use in General Vibration Impact Assessments, and one based on the maximum vibration level in any 1/3-octave band (the band maximum level) for use with a Detailed Vibration Assessment. A 1/3-octave band is a range of frequencies, and each 1/3-octave band is referred to by the center frequency in that band. Predicting vibration on a 1/3-octave band basis allows vibration mitigation to be designed for the frequency range in which it will be most effective. This study uses the Detailed Vibration Assessment criteria.

Vibration levels generated by rail transit systems do not occur at levels that would approach damage criteria for modern structures. The FTA vibration criteria for train operations are solely for assessing human annoyance to vibration and not for assessing the potential for cosmetic or structural damage to structures and buildings. The FTA criterion curve for residences limits any 1/3-octave level between 8 Hz and 80 Hz to a maximum of 72 VdB nighttime and 78 VdB for daytime. Daytime hours are 7 AM to 10



PM, and nighttime hours are 10 PM to 7 AM (FTA). These detailed analysis criteria curves are shown in Figure 5 with a brief description of each of the curve shown in Table 5. Vibration that exceeds the detailed analysis criteria would be considered a significant impact.



**Figure 5: FTA Detailed Vibration Analysis Criteria**

**Table 5: Interpretation of Vibration Criteria for Detailed Analysis**

Criterion Curve	Max L <sub>v</sub> <sup>a</sup> (VdB)	Description of Uses
Workshop	90	Distinctly feelable vibration. Appropriate to workshops and non-sensitive areas.
Office	84	Feelable vibration. Appropriate to offices and non-sensitive areas.
Residential Day	78	Barely feelable vibration. Adequate for computer equipment and low-power optical microscopes (up to 20X).
Residential Night, Operating Rooms	72	Vibration not feelable, but groundborne noise may be audible inside quiet rooms. Suitable for medium-power optical microscopes (100X) and other equipment of low sensitivity.
VC-A	66	Adequate for medium- to high-power optical microscopes (400X), microbalances, optical balances and similar specialized equipment.
VC-B	60	Adequate for high-power optical microscopes (1000X), inspection and lithography equipment to 3-micron line widths.
VC-C	54	Appropriate for most lithography and inspection equipment to 1-micron detail size.
VC-D	48	Suitable in most instances for the most demanding equipment, including electron microscopes operating to the limits of their capability.
VC-E	42	The most demanding criterion for extremely vibration-sensitive equipment.



Criterion Curve	Max Lv <sup>a</sup> (VdB)	Description of Uses
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Source: Federal Transit Administration (2006), Table 8-3

<sup>a</sup> Maximum allowed vibration velocity in any 1/3 octave band over the range of 8 to 80 Hz.

Groundborne noise is generated from the radiation of structures due to the propagation of groundborne vibration from the source to the structure. When audible groundborne noise occurs, it sounds like a low-frequency rumble.

The FTA Guidance Manual also presents criteria for assessing groundborne noise impact for sensitive land use categories. When railroad tracks are above ground, the groundborne noise is often masked by the airborne noise radiated from the wheels and rails. In those cases, it is not necessary to assess impacts from groundborne noise and the current analysis does not do so. Additionally, groundborne noise primarily occurs above 50 Hz, due to both inefficiencies of structural radiation of sound and the human auditory response below this frequency.

### 3.4 Construction Noise and Vibration Criteria

#### 3.4.1 Construction Noise

The use of heavy equipment during project construction has the potential to result in substantial, yet temporary, increases in local noise levels along the corridor. Noise from pile driving is expected to be of primary concern due to the use of piles for supporting the aerial guideway. The FTA Guidance Manual recommends using local construction noise limits, if possible. For the City of San Jose, the General Plan and Municipal Code are interpreted as having no specific noise limits that apply. As a result, the construction noise for this project should be examined in terms of the FTA guidance (shown in Table 6) for evaluating the potential community response to construction noise. The guidelines are based on an average Leq over a typical 8-hour workday. The FTA recommended limit of 80 dBA for the daytime Leq has been used in this assessment as the threshold for impact for residential areas.

Construction noise levels depend on the number of pieces and type of equipment, their general condition, the amount of time each piece operates per day, the presence or lack of noise-attenuating features such as walls and berms and the location of the construction activities relative to the sensitive receivers. The majority of these variables are left to the discretion of the construction contractor selected by VTA as the project approaches the construction phase. However, estimates of pile driving noise exposure levels are estimated based on reasonable assumptions of the hours of operation.

**Table 6: FTA Construction Noise Guidelines**

Land Use	Noise Limit, 8-hour Leq (dBA)	
	Daytime	Nighttime
Residential	80	70
Commercial	85	85
Industrial	90	90

#### 3.4.2 Construction Vibration

The primary concern regarding construction vibration is potential damage to structures. The thresholds for potential damage are much higher than the thresholds for evaluating potential annoyance used to assess



impact from operational vibration. The FTA Guidance Manual recommended limits for construction vibration for the various building categories are shown in Table 7. It is important to note that the vibration limits in Table 7 are the levels at which there is a risk for damage for each building category, not the level at which damage would occur. These limits should be viewed as criteria that should be used during the impact assessment phase to identify potential problem locations.

**Table 7: FTA Construction Vibration Damage Risk Criteria**

<b>Building Category</b>	<b>Peak Particle Velocity (inches/second)</b>
Reinforced-concrete, steel or timber (no plaster)	0.5
Engineered concrete and masonry (no plaster)	0.3
Nonengineered timber and masonry buildings	0.2
Buildings extremely susceptible to vibration damage	0.12

#### 4. EXISTING NOISE

The existing noise environment is dominated by traffic on Capitol Expressway. Capitol Expressway is an 8-lane facility with 6 mixed flow lanes and 2 carpool lanes. Light rail would operate primarily in the median of Capitol Expressway and would involve the removal of the 2 carpool lanes to minimize right-of-way acquisition except between Capitol Avenue and Story Road where VTA is proposing to maintain eight lanes.

Due to the amount of time that has elapsed since the previous existing noise survey (2001, 2006, 2010), the ambient noise environment within the Project area was measured in December 2017<sup>\*</sup>, with previous and current noise measurement locations shown in Figure 2. As shown, the previous and current locations differed due to access and logistical constraints. To accurately compare previous and current noise measurements and to estimate the noise at each sensitive receiver due to traffic noise along Capitol Expressway, a Federal Highway Administration (FHWA) Traffic Noise Model (TNM)<sup>†</sup> was developed. The TNM model was calibrated with the 2017 noise measurements and 2017 traffic count data<sup>‡</sup> for the Project area south of Story Road, and with 2010 noise measurements<sup>§</sup> and 2009 traffic count data<sup>\*\*</sup> for the Project area north of Story Road. The TNM model accounts for traffic flow, effect of pavements, existing sound barriers and attenuation over/through rows of buildings. Table 8 shows a comparison between the previous and current existing noise exposure levels. The raw measured noise levels and photos of measurement locations are presented in Appendix B.

<sup>\*</sup> December 2017 noise survey conducted by ICF

<sup>†</sup> Menge, C.W., et al., *FHWA Traffic Noise Model, Version 1.0*, U.S. DOT, Report FHWA-PD-96-010, 1998, v2.5, 2004.

<sup>‡</sup> October 2017 traffic count conducted by Kittelson & Associates.

<sup>§</sup> July 2010, Capitol Expressway Light Rail Project, Noise and Vibration Study for the SEIS. Wilson, Ihrig & Associates.

<sup>\*\*</sup> September 2012, Capitol Expressway Light Rail Project, Transportation Study for the SEIS. AECOM



**Table 8: Comparison of Previous and Current Existing Noise Exposure Levels**

Label	Location	Land Use	Previous (2010) Ldn	Current (2017) Ldn <sup>1</sup>
N-1	4268 Bambi Ln.	Cat 2	72	73.8
N-2	1276 Capitol Court	Cat 2	73	74.1
N-3	2540 Greenstone Circle	Cat 2	67	67.4
N-4	2015 Supreme Drive	Cat 2	65	66.3

<sup>1</sup> Adjusted to 2010 measurement locations using FHWA TNM model

## 5. OPERATIONAL NOISE ASSESSMENT AND CONTROL

### 5.1 Prediction Methodology

The light rail noise prediction model follows the noise impact assessment methodology for detailed noise predictions presented in the FTA Guidance Manual and incorporates assumptions on operating conditions specific to the project, including speeds, vehicle type and train headways.

For well-maintained light rail systems, the wheel-rail noise dominates above 20 mph and the noise from propulsion motors, air conditioning and other auxiliary equipment on the vehicles dominate below 20 mph. The noise predictions for this analysis are based on the reference sound equivalent level  $SEL_{ref}$  as a building block for determining the total project noise level. The  $SEL_{ref}$  is used to determine the equivalent noise  $Leq$  for operational conditions, and the hourly  $Leq$  are used to determine the Ldn. The model equations are:

$$Leq(hr) = SEL_{ref} + 10 \text{ Log}(N) + 20 \text{ Log}\left(\frac{S}{50}\right) + 10 \text{ Log}(V) - 10 \text{ Log}\left(\frac{D}{50}\right) - 35.56$$

$SEL_{ref}$	Reference SEL at 50 mph and 50 ft for one car
N	Number of cars per train
S	Train speed in mph
D	Distance from source to receiver

For slab track on aerial structure FTA recommends an additional +4 dB to the  $Leq(hr)$ . The Ldn is then calculated as:

$$Ldn = 10 \text{ Log}\left(15 * 10^{\frac{Leq(Day)}{10}} + 9 * 10^{\frac{Leq(Night)+10}{10}}\right) - 13.8$$

Operational parameters for the trains are as follows:

Train Speed	55 mph
Headways	30 minutes (4:30 AM to 6:00 AM), 2-car
	7.5 minutes (6:00 AM to 9:00 AM), peak AM, 3-car
	7.5 minutes (9:00 AM to 3:30 PM), 2-car
	7.5 minutes (3:30 PM to 7:30 PM), peak PM, 3-car





15 minutes (7:30 PM to 11:30 PM), 2-car  
30 minutes (11:30 to 1:30 AM), 1-car

This analysis indicates that for current year (2017) there are 78 moderate and 23 severe unmitigated noise impacts. For future year (2043) conditions there are 96 moderate and 59 severe unmitigated noise impacts. Table 9 summarizes the predicted operational total project noise and number of impacts for future year 2043.

## 5.2 Road Traffic Noise

Road traffic noise due to the Project is estimated similar to the method used for the existing road traffic noise described previously using TNM. Project related changes to the Capitol Expressway road configuration include four lanes of traffic north of Story Road and three lanes of traffic south of Story Road. Noise levels are estimated for current year 2017 and future year 2043. The growth trends for traffic volume along Capitol Expressway were estimated by the VTA Travel Demand Model using traffic counts by Kittelson & Associates in 2017, which predicted traffic volume out to year 2043 under Project Build and No-Build scenarios. Noise from traffic is directly proportional to traffic volume, assuming all other factors remain the same, a doubling of traffic volume increases the noise exposure by 3 dB.

The increase in traffic noise has the effect of substantially increasing the number of noise impacts for future year (2043) conditions over the current year (2017) conditions. The estimated operational LRT noise is combined with the estimated noise increase from road traffic, under the Project Build alternative, to predict the total current and future noise exposure levels, as shown in Table 9.

The location of receivers where future year (2043) operational noise impacts are predicted are as follows:

- Twenty-three properties located east and west of the alignment, between Wilbur Avenue and Mervyns Way will experience one severe and twenty-two moderate noise impacts.
- Twenty-five properties located west of the alignment between Excalibur Drive and Story Road will experience moderate noise impacts.
- Two commercial properties located west of the alignment near the intersection of Story Road and Expressway will experience moderate noise impacts.
- Forty-one properties located east of the alignment between Story Road and Ocala Avenue will experience thirty-eight moderate and three severe noise impacts.
- Seventeen properties located west of the alignment between Story Road and Foxdale Loop will experience four moderate and thirteen severe noise impacts.
- One commercial property located west of the alignment near the intersection of Foxdale Loop and Capitol Expressway will experience a moderate noise impact.
- Twenty-seven properties located east of the alignment between Ocala Avenue and Cunningham Avenue will experience severe noise impacts.
- Nineteen properties located west of the alignment between Foxdale Drive and Ocala Avenue will experience four moderate and fifteen severe noise impacts.

## 5.3 Noise Control Measures



**Aerial Guideway Sound Wall:** With the incorporation of a 3 ft aerial guideway sound wall there are 45 moderate and 0 severe impacts for year 2017.

With the aerial guideway sound walls there are 116 moderate and 0 severe impacts for year 2043. Future noise levels are dominated by the growth in traffic noise on Capitol Expressway and not by light rail operations.

**Wayside Sound Walls:** Only about half of all residences in the Project area are behind an existing approximately 8 ft high wayside sound wall, which has been included in the preceding analysis. Typical sound walls provide about 5 dB or more of noise reduction, depending on source-receiver geometry. The construction of sound walls where they do not currently exist would likely remove all the predicted moderate impacts for future year 2043, at those locations. For the remaining receivers, adding an additional height of 3 ft to existing barriers would reduce the noise levels at those receivers by about 1.5 dB, further reducing the number of impacts for future year 2043. It is recommended that a more detailed analysis of the effect of increasing the height of existing sound walls should be conducted if this measure is to be considered.

**Home Insulation:** Replace or improve sound insulation materials on nearby homes. U.S. Department of Housing and Urban Development (HUD) acceptability threshold for residential interior noise is 45 Ldn dBA. This method would not improve noise levels at outdoor spaces of the homes.

**Quiet Pavement:** Recent studies by Caltrans indicate that Open Graded Asphalt Concrete (OGAC) produces noticeably less vehicle noise than other pavement types (i.e., concrete and conventional asphalt). Research data collected to date indicates that OGAC results in a 4- to 6-dBA reduction in traffic noise levels in the 750 Hz to 4 KHz frequency range\*. The Caltrans study indicates that the OGAC that they tested on I-80 reduces overall noise levels by approximately 3 dBA compared to normal pavements. Assuming a conservative 2 dB reduction, OGAC removes all the predicted moderate impacts that remain after the incorporation of the aerial sound wall. Table 9 includes the effect of OGAC. There are no impacts left after the effects of the aerial guideway sound wall and OGAC are included.

**Table 9: Summary of Predicted Total Noise, Year 2043**

Station Number	Receiver Address	Rec Type	Horz. Dist. to Near Track (ft)	Existing Noise (Ldn)	Unmitigated Total Noise, (Ldn)	FTA Allowable Increase		FTA Impact Before Noise Control?		FTA Impact After Noise Control? <sup>1</sup>	
						Mod	Severe	Mod	Severe	Mod	Severe
NB 964+50	2705 Wilbur Ave	SFR	69	71.1	71.8	1.0	2.6	--	--	--	--
NB 966+00	2706 Wilbur Ave	SFR	97	71.4	72.3	1.0	2.6	--	--	--	--
NB 967+00	420 Capitol Ave	SFR	80	70.1	71.2	1.0	2.8	Y	--	--	--
NB 967+50	440 Capitol Ave	SFR	81	70.0	71.1	1.1	2.9	--	--	--	--
NB 968+10	460 Capitol Ave	SFR	80	70.1	71.2	1.0	2.8	Y	--	--	--
NB 968+80	480 Capitol Ave	SFR	77	70.3	71.7	1.0	2.8	Y	--	--	--
NB 969+50	13511 Westboro Dr	SFR	65	71.8	73.0	1.0	2.6	Y	--	--	--
NB 970+90	13510 Westboro Dr	SFR	63	72.8	73.9	0.8	2.5	Y	--	--	--
NB 971+70	500 Capitol Ave	SFR	76	71.9	73.1	1.0	2.6	Y	--	--	--
NB 972+20	520 Capitol Ave	SFR	79	71.9	73.1	1.0	2.6	Y	--	--	--
NB 973+00	540 Capitol Ave	SFR	77	72.4	73.7	0.8	2.5	Y	--	--	--
NB 973+50	560 Capitol Ave	SFR	79	72.6	73.9	0.8	2.5	Y	--	--	--
NB 974+10	13501 Highwood Dr	SFR	61	72.7	74.2	0.8	2.5	Y	--	--	--
NB 975+80	13500 Highwood Dr	SFR	62	70.8	72.8	1.0	2.8	Y	--	--	--
NB 976+50	620 S Capitol Ave	SFR	68	68.6	71.2	1.2	3.1	Y	--	--	--
NB 977+20	640 S Capitol Ave	SFR	63	68.4	71.2	1.2	3.1	Y	--	--	--

\* Caltrans, 1-80 Davis OGAC Pavement Noise Study, 2001.



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Station Number	Receiver Address	Rec Type	Horz. Dist. to Near Track (ft)	Existing Noise (Ldn)	Unmitigated Total Noise, (Ldn)	FTA Allowable Increase		FTA Impact Before Noise Control?		FTA Impact After Noise Control? <sup>1</sup>	
						Mod	Severe	Mod	Severe	Mod	Severe
NB 977+70	660 S Capitol Ave	SFR	48	68.0	71.4	1.2	3.2	--	Y	--	--
NB 978+50	10301 Dover Way	SFR	131	63.9	67.5	1.6	4.1	Y	--	--	--
NB 979+10	10291 Dover Way	SFR	141	64.4	67.6	1.5	3.9	Y	--	--	--
NB 979+70	10281 Dover Way	SFR	124	65.0	68.2	1.5	3.9	Y	--	--	--
NB 980+50	10271 Dover Way	SFR	107	65.7	68.8	1.4	3.6	Y	--	--	--
NB 981+20	10261 Dover Way	SFR	112	65.7	68.7	1.4	3.6	Y	--	--	--
NB 986+70	888 S Capitol Ave	COM	131	75.1	75.6	1.2	4.9	--	--	--	--
NB 988+30	920 S Capitol Ave	CH	132	75.3	75.6	1.2	4.9	--	--	--	--
NB 990+50	990 S Capitol Ave	CH	126	75.5	75.8	1.2	4.9	--	--	--	--
NB 992+80	2701 Story Rd	COM	137	74.9	75.3	1.5	5.1	--	--	--	--
NB 995+50	2710 Story Rd	COM	118	75.4	75.6	1.2	4.9	--	--	--	--
NB 998+50	2710 Kollmar Dr	MFR	103	74.4	75.6	0.5	2.3	Y	--	--	--
NB 999+90	2709 Sussex Dr	SFR	117	73.4	74.7	0.6	2.4	Y	--	--	--
NB 1001+60	1210 Capitol Ave	SFR	117	73.5	74.8	0.6	2.4	Y	--	--	--
NB 1002+40	1222 Capitol Ave	SFR	116	73.5	74.8	0.6	2.4	Y	--	--	--
NB 1003+90	1244 Tudor Ct	SFR	118	73.6	74.8	0.6	2.4	Y	--	--	--
NB 1004+90	1260 Capitol Ct	SFR	117	73.6	74.8	0.6	2.4	Y	--	--	--
NB 1006+20	1276 Capitol Ct	SFR	118	73.6	74.8	0.6	2.4	Y	--	--	--
NB 1007+10	2703 Murtha Dr	SFR	117	73.7	74.8	0.6	2.4	Y	--	--	--
NB 1008+80	2704 Murtha Dr	SFR	118	73.7	74.8	0.6	2.4	Y	--	--	--
NB 1009+80	1336 Capitol Ave	SFR	117	73.7	74.8	0.6	2.4	Y	--	--	--
NB 1011+10	2706 Bristol Dr	SFR	117	73.7	74.8	0.6	2.4	Y	--	--	--
NB 1012+10	2707 Dublin Dr	SFR	117	73.7	74.8	0.6	2.4	Y	--	--	--
NB 1013+60	2704 Dublin Dr	SFR	118	73.7	74.8	0.6	2.4	Y	--	--	--
NB 1014+50	1440 Capitol Ave	SFR	119	73.7	74.8	0.6	2.4	Y	--	--	--
NB 1016+00	1460 Capitol Ave	SFR	118	73.2	74.4	0.6	2.4	Y	--	--	--
NB 1017+00	1492 Capitol Ave	SFR	120	73.2	74.4	0.6	2.4	Y	--	--	--
NB 1018+30	1512 Capitol Ave	SFR	127	73.2	74.4	0.6	2.4	Y	--	--	--
NB 1019+40	2705 Capitol Ave	SFR	123	73.2	74.4	0.6	2.4	Y	--	--	--
NB 1021+00	2704 Capitol Ave	SFR	119	73.7	74.8	0.6	2.4	Y	--	--	--
NB 1021+60	1564/1566 Capitol Ave	SFR	146	72.3	73.4	0.8	2.5	Y	--	--	--
NB 1022+30	1572 Capitol Ave	SFR	142	72.3	73.4	0.8	2.5	Y	--	--	--
NB 1022+90	1576/1578 Capitol Ave	SFR	146	72.3	73.4	0.8	2.5	Y	--	--	--
NB 1023+50	1584 Capitol Ave	SFR	141	72.3	73.4	0.8	2.5	Y	--	--	--
NB 1024+10	1588/1590 Capitol Ave	SFR	148	72.3	73.4	0.8	2.5	Y	--	--	--
NB 1024+70	1596 Capitol Ave	SFR	140	72.3	73.4	0.8	2.5	Y	--	--	--
NB 1026+00	1606/1608 Capitol Ave	SFR	143	72.3	73.5	0.8	2.5	Y	--	--	--
NB 1026+60	1614 Capitol Ave	SFR	136	72.3	73.5	0.8	2.5	Y	--	--	--
NB 1027+20	1618/1620 Capitol Ave	SFR	141	72.3	73.5	0.8	2.5	Y	--	--	--
NB 1027+90	1624/1626 Capitol Ave	SFR	137	72.3	73.5	0.8	2.5	Y	--	--	--
NB 1028+50	1632 Capitol Ave	SFR	139	72.3	73.5	0.8	2.5	Y	--	--	--
NB 1029+00	1636/1638 Capitol Ave	SFR	134	72.3	73.5	0.8	2.5	Y	--	--	--
NB 1029+60	1654 Capitol Ave	SFR	133	72.3	73.5	0.8	2.5	Y	--	--	--
NB 1030+10	1660 Capitol Ave	SFR	133	72.3	73.5	0.8	2.5	Y	--	--	--
NB 1030+70	1666 Capitol Ave	SFR	133	72.3	73.5	0.8	2.5	Y	--	--	--
NB 1031+30	1672 Capitol Ave	SFR	133	72.3	73.5	0.8	2.5	Y	--	--	--
NB 1031+90	1678 Capitol Ave	SFR	133	72.2	73.4	0.8	2.5	Y	--	--	--
NB 1032+50	1684 Capitol Ave	SFR	135	72.0	73.2	1.0	2.6	Y	--	--	--
NB 1034+00	1701 Capitol Ave	SFR	68	72.0	74.2	1.0	2.6	Y	--	--	--
NB 1034+80	1923 Vermont Ct	SFR	80	69.2	72.1	1.1	2.9	--	Y	--	--
NB 1035+20	1917 Vermont Ct	SFR	82	68.7	71.8	1.2	3.1	--	Y	--	--
NB 1035+90	1911 Vermont Ct	SFR	102	67.6	70.9	1.2	3.2	--	Y	--	--
NB 1037+60	1756 Home Gate Dr	SFR	88	66.7	70.8	1.3	3.4	--	Y	--	--
NB 1038+00	1758 Home Gate Dr	SFR	82	66.7	70.8	1.3	3.4	--	Y	--	--
NB 1038+30	1760 Home Gate Dr	SFR	83	66.6	70.7	1.3	3.4	--	Y	--	--



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						Mod	Severe	Mod	Severe	Mod	Severe
NB 1038+60	1762 Home Gate Dr	SFR	108	66.2	70.0	1.3	3.4	--	Y	--	--
NB 1038+90	1764 Home Gate Dr	SFR	96	66.6	70.5	1.3	3.4	--	Y	--	--
NB 1039+20	1766 Home Gate Dr	SFR	82	66.2	70.5	1.3	3.4	--	Y	--	--
NB 1039+50	1768 Home Gate Dr	SFR	99	66.4	70.3	1.3	3.4	--	Y	--	--
NB 1039+80	1770 Home Gate Dr	SFR	95	66.4	70.3	1.3	3.4	--	Y	--	--
NB 1040+10	1772 Home Gate Dr	SFR	93	66.5	70.4	1.3	3.4	--	Y	--	--
NB 1040+50	1774 Home Gate Dr	SFR	83	66.7	70.6	1.3	3.4	--	Y	--	--
NB 1040+90	1776 Home Gate Dr	SFR	82	66.4	70.4	1.3	3.4	--	Y	--	--
NB 1041+20	1778 Home Gate Dr	SFR	74	66.4	70.5	1.3	3.4	--	Y	--	--
NB 1041+50	1780 Home Gate Dr	SFR	98	66.4	70.2	1.3	3.4	--	Y	--	--
NB 1041+80	1782 Home Gate Dr	SFR	93	66.4	70.2	1.3	3.4	--	Y	--	--
NB 1042+10	1784 Home Gate Dr	SFR	88	66.4	70.3	1.3	3.4	--	Y	--	--
NB 1042+50	1786 Home Gate Dr	SFR	97	66.2	70.1	1.3	3.4	--	Y	--	--
NB 1042+90	1788 Home Gate Dr	SFR	95	66.3	70.2	1.3	3.4	--	Y	--	--
NB 1043+20	1790 Home Gate Dr	SFR	90	66.4	70.3	1.3	3.4	--	Y	--	--
NB 1044+10	1995 Supreme Dr	SFR	97	66.2	70.1	1.3	3.4	--	Y	--	--
NB 1045+10	2001 Supreme Dr	SFR	82	66.1	70.2	1.3	3.4	--	Y	--	--
NB 1046+00	2009 Supreme Dr	SFR	112	65.1	69.1	1.4	3.6	--	Y	--	--
NB 1046+70	2015 Supreme Dr	SFR	119	65.0	69.0	1.5	3.9	--	Y	--	--
NB 1047+20	2021 Supreme Dr	SFR	108	65.8	69.7	1.4	3.6	--	Y	--	--
NB 1047+80	2027 Supreme Dr	SFR	103	65.9	69.8	1.4	3.6	--	Y	--	--
NB 1048+50	2033 Supreme Dr	SFR	115	65.5	69.5	1.4	3.6	--	Y	--	--
NB 1049+00	2039 Supreme Dr	SFR	101	65.7	69.8	1.4	3.6	--	Y	--	--
NB 1049+50	2045 Supreme Dr	SFR	111	65.0	69.6	1.5	3.9	--	Y	--	--
SB 967+50	441 Capitol Ave	SFR	48	73.3	74.3	0.6	2.4	Y	--	--	--
SB 967+50	2685 Lombard Ave	SFR	105	67.5	68.4	1.2	3.2	--	--	--	--
SB 968+90	2686 Lombard Ave	SFR	64	71.0	72.0	1.0	2.8	Y	--	--	--
SB 969+80	353 Capitol Ave	SFR	75	71.4	72.4	1.0	2.6	Y	--	--	--
SB 970+50	455 Capitol Ave	SFR	76	71.8	72.8	1.0	2.6	Y	--	--	--
SB 971+30	459 S Capitol Ave	COM	65	73.7	74.9	1.8	5.2	--	--	--	--
SB 973+00	461 S Capitol Ave	COM	73	76.4	77.2	1.0	4.8	--	--	--	--
SB 978+00	674 Excalibur Drive	SFR	193	74.6	75.5	0.5	2.3	Y	--	--	--
SB 979+50	692 Excalibur Drive	SFR	196	73.5	74.4	0.6	2.4	Y	--	--	--
SB 979+00	710 Excalibur Drive	SFR	200	72.6	73.6	0.8	2.5	Y	--	--	--
SB 979+50	728 Excalibur Drive	SFR	200	71.9	73.1	1.0	2.6	Y	--	--	--
SB 979+80	731 S Capitol Ave	SFR	113	74.6	76.1	0.5	2.3	Y	--	--	--
SB 980+50	747 S Capitol Ave	SFR	120	74.0	75.7	0.6	2.4	Y	--	--	--
SB 981+10	763 S Capitol Ave	SFR	121	73.7	75.5	0.6	2.4	Y	--	--	--
SB 983+00	2693 Bambi Ln	SFR	115	74.1	76.3	0.5	2.3	Y	--	--	--
SB 984+40	807 Capitol Ave	SFR	135	73.1	75.1	0.6	2.4	Y	--	--	--
SB 985+10	821 Capitol Ave	SFR	134	73.2	75.2	0.6	2.4	Y	--	--	--
SB 985+60	835 Capitol Ave	SFR	136	73.2	75.2	0.6	2.4	Y	--	--	--
SB 986+10	849 Capitol Ave	SFR	138	73.3	75.3	0.6	2.4	Y	--	--	--
SB 986+50	863 Capitol Ave	SFR	139	73.3	75.2	0.6	2.4	Y	--	--	--
SB 987+10	877 Capitol Ave	SFR	137	73.5	75.4	0.6	2.4	Y	--	--	--
SB 987+50	891 Capitol Ave	SFR	136	73.7	75.6	0.6	2.4	Y	--	--	--
SB 988+10	905 Capitol Ave	SFR	133	74.0	75.8	0.6	2.4	Y	--	--	--
SB 988+60	921 Capitol Ave	SFR	135	74.2	75.9	0.5	2.3	Y	--	--	--
SB 989+10	937 Capitol Ave	SFR	129	74.4	76.0	0.5	2.3	Y	--	--	--
SB 989+50	953 Capitol Ave	SFR	129	74.4	75.9	0.5	2.3	Y	--	--	--
SB 990+00	969 Capitol Ave	SFR	121	74.5	75.9	0.5	2.3	Y	--	--	--
SB 990+60	985 Capitol Ave	SFR	119	74.6	76.0	0.5	2.3	Y	--	--	--
SB 991+00	1001 Capitol Ave	SFR	114	74.6	76.0	0.5	2.3	Y	--	--	--
SB 991+60	1017 Capitol Ave	SFR	111	74.8	76.2	0.5	2.3	Y	--	--	--



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						Mod	Severe	Mod	Severe	Mod	Severe
SB 992+20	1033 Capitol Ave	SFR	107	74.9	76.3	0.5	2.3	Y	--	--	--
SB 992+70	1049 Capitol Ave	SFR	105	75.2	76.5	0.4	2.2	Y	--	--	--
SB 993+10	1091 Capitol Ave	COM	93	75.8	77.3	1.2	4.9	Y	--	--	--
SB 994+00	2695 Story Rd	COM	90	76.2	77.7	1.0	4.8	Y	--	--	--
SB 996+50	2690 Story Rd	COM	102	76.2	76.9	1.0	4.8	--	--	--	--
SB 998+80	2598 Brenford Dr	SFR	156	65.0	67.8	1.5	3.9	Y	--	--	--
SB 999+30	2594 Brenford Dr	SFR	92	65.8	69.5	1.4	3.6	--	Y	--	--
SB 1000+00	2590 Brenford Dr	SFR	89	65.8	69.6	1.4	3.6	--	Y	--	--
SB 1000+50	2586 Brenford Dr	SFR	95	65.9	69.5	1.4	3.6	--	Y	--	--
SB 1001+00	2582 Brenford Dr	SFR	81	65.8	69.7	1.4	3.6	--	Y	--	--
SB 1001+60	2578 Brenford Dr	SFR	79	65.6	69.7	1.4	3.6	--	Y	--	--
SB 1002+10	2574 Brenford Dr	SFR	79	65.8	69.9	1.4	3.6	--	Y	--	--
SB 1002+80	2570 Brenford Dr	SFR	82	65.7	69.7	1.4	3.6	--	Y	--	--
SB 1003+20	2568 Brenford Dr	SFR	72	65.3	69.7	1.4	3.6	--	Y	--	--
SB 1003+80	2564 Brenford Dr	SFR	81	65.9	69.8	1.4	3.6	--	Y	--	--
SB 1004+40	2560 Brenford Dr	SFR	93	66.2	69.8	1.3	3.4	--	Y	--	--
SB 1005+00	2556 Brenford Dr	SFR	95	66.1	69.7	1.3	3.4	--	Y	--	--
SB 1005+40	2552 Brenford Dr	SFR	83	65.9	69.8	1.4	3.6	--	Y	--	--
SB 1006+00	2548 Brenford Dr	SFR	82	66.3	70.0	1.3	3.4	--	Y	--	--
SB 1006+60	2544 Brenford Dr	SFR	73	66.8	70.0	1.3	3.4	Y	--	--	--
SB 1007+10	2540 Brenford Dr	SFR	81	68.7	71.6	1.2	3.1	Y	--	--	--
SB 1007+20	2536 Brenford Dr	SFR	122	67.2	70.0	1.2	3.2	Y	--	--	--
SB 1009+00	3501 E Capitol Expy	COM	78	74.2	76.2	1.5	5.1	Y	--	--	--
SB 1012+00	Foxdale Village Foxdale Loop	MFR	125	69.1	71.6	1.1	2.9	--	--	--	--
SB 1014+50	Foxdale Village Foxdale Loop	MFR	124	69.0	71.4	1.2	3.1	--	--	--	--
SB 1018+00	Foxdale Village Foxdale Loop	MFR	125	69.5	71.8	1.1	2.9	--	--	--	--
SB 1021+00	2529 Greenstone Ct	SFR	140	64.7	67.7	1.5	3.9	Y	--	--	--
SB 1021+40	2535 Greenstone Ct	SFR	98	66.1	69.6	1.3	3.4	--	Y	--	--
SB 1022+00	2540 Greenstone Ct	SFR	79	67.3	70.7	1.2	3.2	--	Y	--	--
SB 1022+70	2534 Greenstone Ct	SFR	109	65.8	69.2	1.4	3.6	Y	--	--	--
SB 1024+10	2537 Whitestone Ct	SFR	88	66.1	69.8	1.3	3.4	--	Y	--	--
SB 1024+90	2538 Whitestone Ct	SFR	86	66.3	70.0	1.3	3.4	--	Y	--	--
SB 1025+50	2530 Whitestone Ct	SFR	100	66.1	69.6	1.3	3.4	--	Y	--	--
SB 1026+90	2533 Bluestone Ct	SFR	87	66.2	69.9	1.3	3.4	--	Y	--	--
SB 1027+40	2532 Bluestone Ct	SFR	80	66.0	70.0	1.4	3.6	--	Y	--	--
SB 1027+80	2526 Bluestone Ct	SFR	112	65.7	69.0	1.4	3.6	Y	--	--	--
SB 1029+30	2517 Brownstone Ct	SFR	89	66.4	70.0	1.3	3.4	--	Y	--	--
SB 1030+00	2518 Brownstone Ct	SFR	72	65.6	70.0	1.4	3.6	--	Y	--	--
SB 1030+50	2510 Brownstone Ct	SFR	118	65.5	68.9	1.4	3.6	Y	--	--	--
SB 1032+00	1646 Pinkstone Ct	SFR	94	66.5	69.9	1.3	3.4	--	Y	--	--
SB 1032+70	1652 Pinkstone Ct	SFR	88	66.6	70.1	1.3	3.4	--	Y	--	--
SB 1033+10	1658 Pinkstone Ct	SFR	94	66.4	69.9	1.3	3.4	--	Y	--	--
SB 1034+60	1682 Silverstone Pl	SFR	98	66.4	69.8	1.3	3.4	--	Y	--	--
SB 1035+30	1690 Silverstone Pl	SFR	82	66.4	70.2	1.3	3.4	--	Y	--	--
SB 1035+80	1698 Silverstone Pl	SFR	129	65.2	69.2	1.4	3.6	--	Y	--	--
<b># Impacts</b>								<b>96</b>	<b>59</b>	<b>0</b>	<b>0</b>

<sup>1</sup>Noise control measures include both aerial guideway sound wall and open graded asphalt concrete layer on Capitol Expressway  
SFR: Single-Family Residence, MFR: Multi-Family Residence, COM: Commercial/Office Space, CH : Church



## 6. OPERATIONAL VIBRATION ASSESSMENT AND CONTROL

### 6.1 Prediction Methodology

The relation below was used to estimate the vibration levels  $L_V$  at interior building spaces.

$$L_V = FDL + LSR + C_{Build} + SF$$

$L_V$	Predicted, interior vibration level, dB re 1 micro-inch/sec
FDL	Force Density Level, dB re 1 lb/ft <sup>1/2</sup>
LSR	Line Source Response, dB re 1 (micro-inch/sec)/(lb/ft <sup>1/2</sup> )
$C_{Build}$	Building adjustment factor due to soil-foundation coupling, transmission loss through the building and floor amplification, dB.
SF	Safety factor to account for uncertainties in the predictions, dB

**LSR:** The line source response is a measure of how efficient vibrational energy propagates through the ground. A large LSR signifies efficient (low attenuation) propagation. The LSR is measured by imparting a calibrated and known force into the ground and collecting the resulting vibration at several distances, typically perpendicular to the rail alignment. These point data are then integrated to account for the extended length of a train. The current analysis uses the averaged LSR from the 2007 SEIR as shown in Appendix C.

**FDL:** The force density level is a measure of the forces imparted to the ground from a specific track and vehicle type. It is obtained through a measure of the LSR, as described above, and the train vibration as it passes by. The FDL is largely independent of the local geologic conditions.

The FDL used in the 2007 SEIR was based on a measured FDL for a VTA ballasted track running Kinkisharyo vehicles at various speeds and is shown in Figure 7. In that 2007 report, the aerial structure was accounted for by an adjustment based on vibration measurements taken along the VTA Capitol Corridor (see Appendix F of the 2007 SEIR).

There is no clear guidance provided in the FTA Guidance manual or other sources on appropriate approaches for using the FDL/LSR method to predict groundborne vibration generated by train operations on aerial structures. It is clear that the vibration can only reach the ground by propagating through the columns, which means that the vibration source at the ground level is essentially a series of point vibration sources; one point at each column.

A common approach used to estimate vibration from operations on aerial structures is to make a prediction using the procedures for at-grade track and then to add an adjustment factor, as was done in the 2007 SEIR. The adjustment factor suggested by the FTA Guidance Manual is a frequency independent reduction of -10 dB. This makes intuitive sense in that the vibration from an aerial structure must travel through the aerial structure before reaching the ground. Also, measurements that have been performed of vibration adjacent to aerial structures tends to support this -10 dB adjustment. The aerial structure adjustment from the 2007 SEIR is considerably larger than -10 dB for frequencies above 40 Hz, as seen in Figure 8.

In 2013 ATS Consulting and Wilson Ihrig & Associates conducted aerial structure FDL measurements on Sound Transit's Central Link in Seattle that also run Kinkisharyo light rail vehicles. Line source response tests were conducted by impacting in between the tracks upon the aerial guideway and collecting vibration response on the ground at several distances. The LSR combined with the vehicle passby



vibration produces the aerial structure FDL. Figure 6 shows the impact location along the guideway and an image from below where the vibration response was collected.

Based on these on-the-structure measurements and additional at-grade LSR measurements an aerial structure adjustment was established and is shown in Figure 8. This adjustment in conjunction with the 2007 SEIR measured ballasted track FDL is used in the current analysis for the aerial structure FDL, as shown in Figure 9 along with the directly measured Sound Transit aerial FDL and an average of all three FDLs.

Except at the very low frequencies these results generally validate the suggested adjustment of  $-10$  dB provided in the FTA Guidance Manual. It is expected that the adjustment is dependent on the design of the aerial structure, particularly the design of the foundation. The foundation for the Seattle test section consisted of 9.8 to 10 ft diameter columns that are approximately 100 ft deep and penetrate into the bedrock. For aerial structures with a similar design the average difference curve shown in Figure 8 should be an appropriate adjustment.

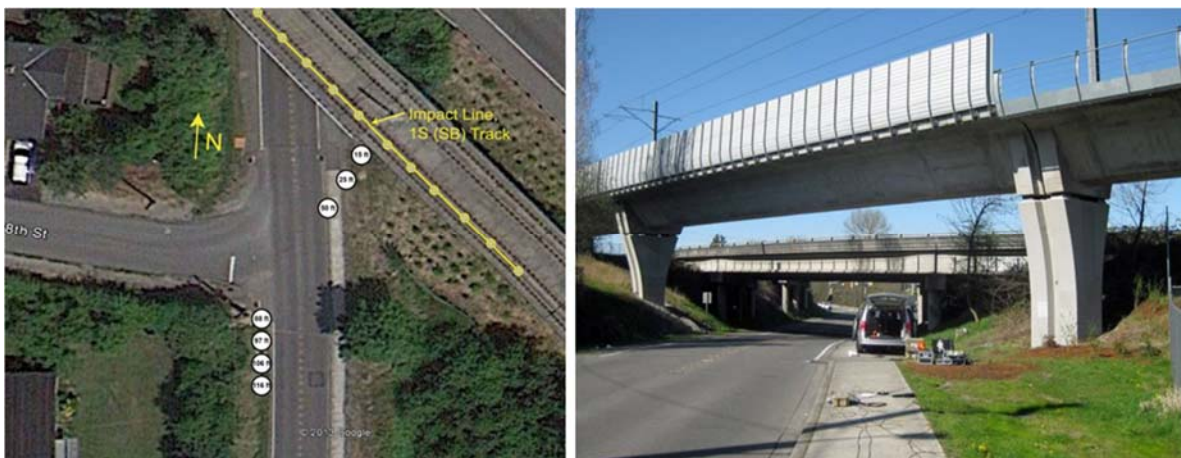


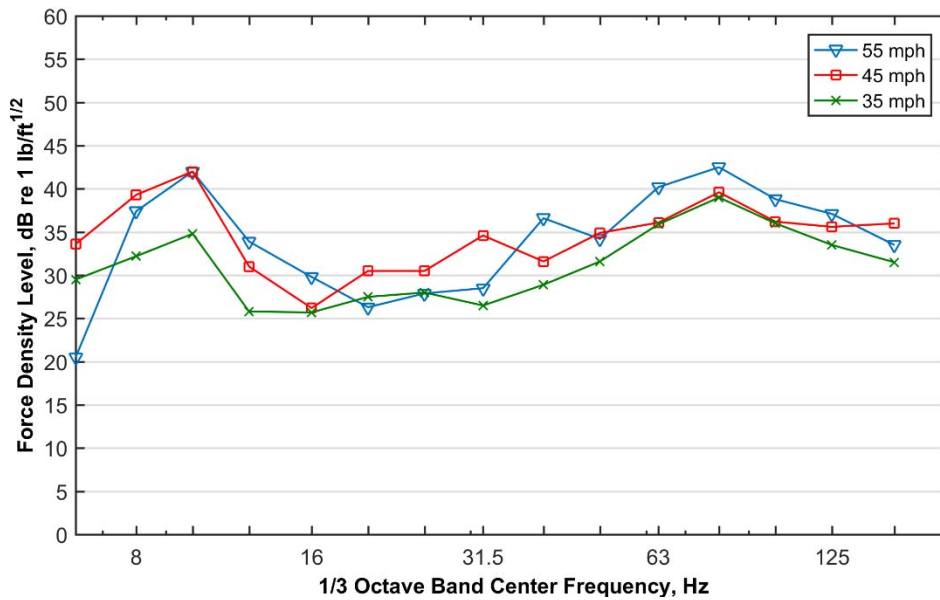
Figure 6: Direct FDL Measurements on Aerial Guideway at Sound Transit, Kinkisharyo LRV

***C<sub>Build</sub>***: The propagation of vibration from the soil into the building foundation and through the building structure is complex and dependent on the specific design and construction of the building. The FTA guidance manual provides some generic adjustments to account for building response and floor resonance. Building adjustment factors include coupling loss as the vibration travels from the soil into the building foundation, transmission loss as the vibration travels through the building, and possible floor amplification (usually away from structural walls).

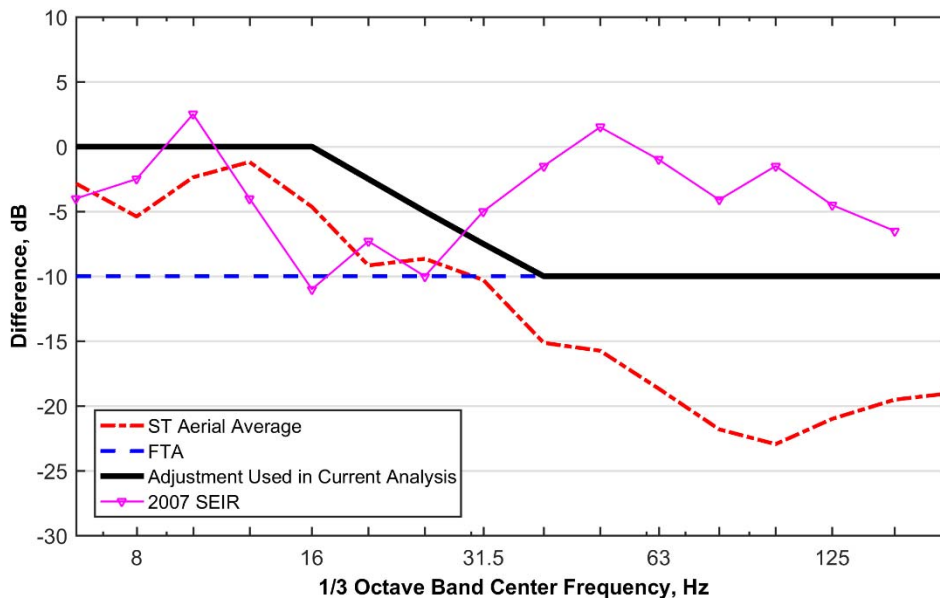
For lightweight wood-frame structures, the FTA Guidance Manual suggests  $+6$  dB for floor amplification and  $-2$  dB per floor for floor-to-floor attenuation up to five floors above grade, as well as a  $-5$  dB adjustment for coupling loss. Combining the adjustment factors for a wood-frame structure such as a residence, there is  $-5$  dB for the coupling loss,  $+6$  dB for floor amplification and an additional  $-2$  dB for each floor above the grade level. This leads to a net adjustment of between  $-1$  to  $+1$  dB for the vibration inside a typical residence. Therefore, no adjustment is applied to account for coupling loss and floor amplification in the prediction model for small one or two-story residences. For large masonry buildings, the FTA Guidance Manual suggests a  $-10$  dB adjustment for coupling loss. This adjustment has been used at multifamily residences and large office buildings.



**SF:** A safety factor of +3 dB is also added to each one-third octave band. The purpose of the safety factor is to account for measurement uncertainties and other error sources in the predictions. This is a conservative approach, ensuring that in most cases the predicted levels are higher than what would occur during regular operations.

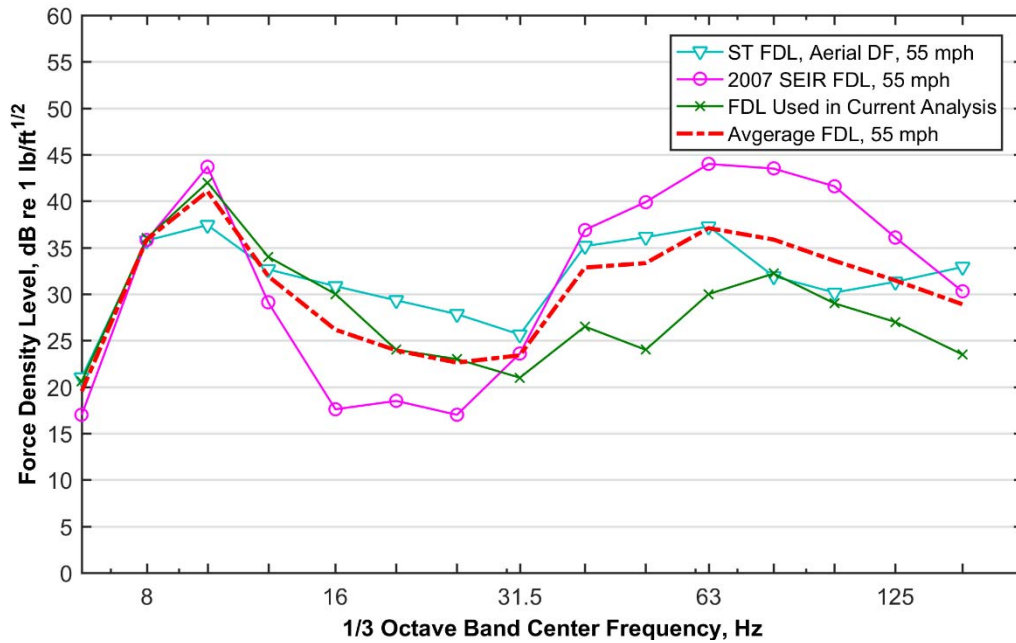


**Figure 7: Ballasted Track FDL: VTA Kinkisharyo (SEIR 2007)**



**Figure 8: Ballasted Track to Aerial Structure Adjustment Factor**





**Figure 9: Aerial Structure FDL**

Table 10 summarizes the estimated vibration levels at each receiver within the project area that are likely to be impacted. The vibration levels are shown assuming a 3-car train and evaluated against the FTA nighttime and daytime criteria\*. Nighttime hours are the most restrictive since peak hour operations would typically start at 6 AM. This analysis indicates that many first-row homes, or homes generally within 100 ft of the closest column, may exceed the FTA detailed nighttime vibration criteria of 72 VdB. It is noted that beyond approximately 50 feet from aerial guideway it is unusual to have vibration levels that exceed FTA criteria. There are 73 nighttime unmitigated impacts predicted. No daytime exceedances are expected. With the inclusion of TDA at the at-grade and embankment sections there are 72 nighttime impacts predicted.

The location of receivers where operational vibration impacts are predicted are as follows:

- Seventeen properties located east and west of the alignment between Wilbur Avenue and Mervyns Way will experience operational vibration impacts. One home is within 33 feet of the closest support column.
- Two properties located west of the alignment on Capitol Expressway near Story Road will experience operational vibration impacts.
- Fifteen properties located west of the alignment along Brenford Drive will experience operational vibration impacts.
- Fourteen properties located west of the alignment between Foxdale Drive and Ocala Avenue will experience operational vibration impacts.

\* Daytime hours are 7 AM to 10 PM, and nighttime hours are 10 PM to 7 AM (FTA).



- Four properties located east of the alignment between S. Capitol Avenue and Ocala Avenue will experience operational vibration impacts.
- Twenty-one properties located east of the alignment between Ocala Avenue and Cunningham Avenue will experience operational vibration impacts.

Homes that are in the vicinity of NB 977+70 have the highest predicted vibration levels, up to 77 VdB at 660 S. Capitol Avenue. This is due to the proximity of the support columns to the homes, especially those columns supporting the outrigger bent at 978+00.

Figure 10 shows the detailed frequency vibration spectrum for receiver NB 1034+00, which is about 70 ft from an aerial column. Also shown in Figure 10 is the vibration spectrum for NB 969+50 which is about 63 ft from the embankment and indicates vibration levels that exceed nighttime FTA criteria at higher frequencies.

For eight homes near the transition embankment, NB 968+80 to NB 971+70 and SB 968+90 to SB 971+30, exceedance of nighttime criteria is also predicated in the frequency range 20 Hz to 31.5 Hz. The vibration for the embankment section was obtained using the measured at-grade to embankment adjustment used in the 2007 SEIR. This adjustment indicated an amplification effect of the embankment in the 20 Hz to 31.5 Hz region.

It is noted that for all receivers indicating exceedances, except for SB 968+90, there is a 10 Hz component of the vibration that is contributing to the nighttime exceedance.



**Table 10: Summary of Predicted Operational Vibration Levels: 3-Car Train**

Station Number	Receiver Address	Rec. Type	Distance Near Track (ft)	Speed (mph)	Track Type	FTA Detailed Criteria (VdB)	Unmitigated Project Vib., (VdB)	FTA Impact Before Vib. Control?	FTAImpact After Vib. Control? <sup>1</sup>
NB 964+50	2705 Wilbur Ave	SFR	69	35	at	78/72	67	--	--
NB 966+00	2706 Wilbur Ave	SFR	97	35	at	78/72	67	--	--
NB 967+00	420 Capitol Ave	SFR	80	35	at	78/72	66	--	--
NB 967+50	440 Capitol Ave	SFR	81	35	at	78/72	66	--	--
NB 968+10	460 Capitol Ave	SFR	80	35	emb	78/72	70	--	--
NB 968+80	480 Capitol Ave	SFR	77	45	emb	78/72	72	Y	Y
NB 969+50	13511 Westboro Dr	SFR	63	45	emb	78/72	73	Y	Y
NB 970+90	13510 Westboro Dr	SFR	63	45	emb	78/72	73	Y	Y
NB 971+70	500 Capitol Ave	SFR	76	45	emb	78/72	72	Y	Y
NB 972+20	520 Capitol Ave	SFR	81	55	ag	78/72	73	Y	Y
NB 973+00	540 Capitol Ave	SFR	79	55	ag	78/72	73	Y	Y
NB 973+50	560 Capitol Ave	SFR	81	55	ag	78/72	73	Y	Y
NB 974+10	13501 Highwood Dr	SFR	63	55	ag	78/72	75	Y	Y
NB 975+80	13500 Highwood Dr	SFR	64	55	ag	78/72	75	Y	Y
NB 976+50	620 S Capitol Ave	SFR	72	55	ag	78/72	74	Y	Y
NB 977+20	640 S Capitol Ave	SFR	65	55	ag	78/72	74	Y	Y
NB 977+70	660 S Capitol Ave	SFR	33	55	ag	78/72	77	Y	Y
NB 978+50	10301 Dover Way	SFR	95	55	ag	78/72	72	Y	Y
NB 979+10	10291 Dover Way	SFR	113	55	ag	78/72	71	--	--
NB 979+70	10281 Dover Way	SFR	126	55	ag	78/72	71	--	--
NB 980+50	10271 Dover Way	SFR	109	55	ag	78/72	72	Y	Y
NB 981+20	10261 Dover Way	SFR	114	55	ag	78/72	71	--	--
NB 986+70	888 S Capitol Ave	COM	133	55	ag	84	71	--	--
NB 988+30	920 S Capitol Ave	CH	134	55	ag	84	70	--	--
NB 990+50	990 S Capitol Ave	CH	128	55	ag	84	71	--	--
NB 992+80	2701 Story Rd	COM	139	55	ag	84	70	--	--
NB 995+50	2710 Story Rd	COM	120	55	ag	84	71	--	--
NB 998+50	2710 Kollmar Dr	MFR	105	55	ag	78/72	67	--	--
NB 999+90	2709 Sussex Dr	SFR	119	55	ag	78/72	71	--	--
NB 1001+60	1210 Capitol Ave	SFR	119	55	ag	78/72	71	--	--
NB 1002+40	1222 Capitol Ave	SFR	118	55	ag	78/72	71	--	--
NB 1003+90	1244 Tudor Ct	SFR	120	55	ag	78/72	71	--	--
NB 1004+90	1260 Capitol Ct	SFR	119	55	ag	78/72	71	--	--
NB 1006+20	1276 Capitol Ct	SFR	120	55	ag	78/72	71	--	--
NB 1007+10	2703 Murtha Dr	SFR	119	55	ag	78/72	71	--	--
NB 1008+80	2704 Murtha Dr	SFR	120	55	ag	78/72	71	--	--
NB 1009+80	1336 Capitol Ave	SFR	119	55	ag	78/72	71	--	--
NB 1011+10	2706 Bristol Dr	SFR	119	55	ag	78/72	71	--	--
NB 1012+10	2707 Dublin Dr	SFR	119	55	ag	78/72	71	--	--
NB 1013+60	2704 Dublin Dr	SFR	120	55	ag	78/72	71	--	--
NB 1014+50	1440 Capitol Ave	SFR	121	55	ag	78/72	71	--	--
NB 1016+00	1460 Capitol Ave	SFR	120	55	ag	78/72	71	--	--
NB 1017+00	1492 Capitol Ave	SFR	122	55	ag	78/72	71	--	--
NB 1018+30	1512 Capitol Ave	SFR	129	55	ag	78/72	71	--	--
NB 1019+40	2705 Capitol Ave	SFR	125	55	ag	78/72	71	--	--
NB 1021+00	2704 Capitol Ave	SFR	121	55	ag	78/72	71	--	--
NB 1021+60	1564/1566 Capitol Ave	SFR	148	55	ag	78/72	70	--	--
NB 1022+30	1572 Capitol Ave	SFR	144	55	ag	78/72	70	--	--
NB 1022+90	1576/1578 Capitol Ave	SFR	148	55	ag	78/72	70	--	--
NB 1023+50	1584 Capitol Ave	SFR	143	55	ag	78/72	70	--	--
NB 1024+10	1588/1590 Capitol Ave	SFR	150	55	ag	78/72	70	--	--
NB 1024+70	1596 Capitol Ave	SFR	142	55	ag	78/72	70	--	--
NB 1026+00	1606/1608 Capitol Ave	SFR	145	55	ag	78/72	70	--	--



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NB 1026+60	1614 Capitol Ave	SFR	138	55	ag	78/72	70	--	--
NB 1027+20	1618/1620 Capitol Ave	SFR	143	55	ag	78/72	70	--	--
NB 1027+90	1624/1626 Capitol Ave	SFR	139	55	ag	78/72	70	--	--
NB 1028+50	1632 Capitol Ave	SFR	141	55	ag	78/72	70	--	--
NB 1029+00	1636/1638 Capitol Ave	SFR	136	55	ag	78/72	70	--	--
NB 1029+60	1654 Capitol Ave	SFR	135	55	ag	78/72	70	--	--
NB 1030+10	1660 Capitol Ave	SFR	135	55	ag	78/72	70	--	--
NB 1030+70	1666 Capitol Ave	SFR	135	55	ag	78/72	70	--	--
NB 1031+30	1672 Capitol Ave	SFR	135	55	ag	78/72	70	--	--
NB 1031+90	1678 Capitol Ave	SFR	135	55	ag	78/72	70	--	--
NB 1032+50	1684 Capitol Ave	SFR	137	55	ag	78/72	70	--	--
NB 1034+00	1701 Capitol Ave	SFR	70	55	ag	78/72	74	Y	Y
NB 1034+80	1923 Evermont Ct	SFR	82	55	ag	78/72	73	Y	Y
NB 1035+20	1917 Evermont Ct	SFR	84	55	ag	78/72	73	Y	Y
NB 1035+90	1911 Evermont Ct	SFR	104	55	ag	78/72	72	Y	Y
NB 1037+60	1756 Home Gate Dr	SFR	90	55	ag	78/72	73	Y	Y
NB 1038+00	1758 Home Gate Dr	SFR	84	55	ag	78/72	73	Y	Y
NB 1038+30	1760 Home Gate Dr	SFR	85	55	ag	78/72	73	Y	Y
NB 1038+60	1762 Home Gate Dr	SFR	110	55	ag	78/72	71	--	--
NB 1038+90	1764 Home Gate Dr	SFR	98	55	ag	78/72	72	Y	Y
NB 1039+20	1766 Home Gate Dr	SFR	84	55	ag	78/72	73	Y	Y
NB 1039+50	1768 Home Gate Dr	SFR	101	55	ag	78/72	72	Y	Y
NB 1039+80	1770 Home Gate Dr	SFR	97	55	ag	78/72	72	Y	Y
NB 1040+10	1772 Home Gate Dr	SFR	95	55	ag	78/72	72	Y	Y
NB 1040+50	1774 Home Gate Dr	SFR	85	55	ag	78/72	73	Y	Y
NB 1040+90	1776 Home Gate Dr	SFR	84	55	ag	78/72	73	Y	Y
NB 1041+20	1778 Home Gate Dr	SFR	76	55	ag	78/72	74	Y	Y
NB 1041+50	1780 Home Gate Dr	SFR	100	55	ag	78/72	72	Y	Y
NB 1041+80	1782 Home Gate Dr	SFR	95	55	ag	78/72	72	Y	Y
NB 1042+10	1784 Home Gate Dr	SFR	90	55	ag	78/72	73	Y	Y
NB 1042+50	1786 Home Gate Dr	SFR	99	55	ag	78/72	72	Y	Y
NB 1042+90	1788 Home Gate Dr	SFR	97	55	ag	78/72	72	Y	Y
NB 1043+20	1790 Home Gate Dr	SFR	92	55	ag	78/72	73	Y	Y
NB 1044+10	1995 Supreme Dr	SFR	99	55	ag	78/72	72	Y	Y
NB 1045+10	2001 Supreme Dr	SFR	84	55	ag	78/72	73	Y	Y
NB 1046+00	2009 Supreme Dr	SFR	114	55	ag	78/72	71	--	--
NB 1046+70	2015 Supreme Dr	SFR	121	55	ag	78/72	71	--	--
NB 1047+20	2021 Supreme Dr	SFR	110	55	ag	78/72	71	--	--
NB 1047+80	2027 Supreme Dr	SFR	105	55	ag	78/72	72	Y	Y
NB 1048+50	2033 Supreme Dr	SFR	117	55	ag	78/72	71	--	--
NB 1049+00	2039 Supreme Dr	SFR	103	55	ag	78/72	72	Y	Y
NB 1049+50	2045 Supreme Dr	SFR	113	55	ag	78/72	71	--	--
SB 967+50	441 Capitol Ave	SFR	48	35	at	78/72	68	--	--
SB 967+50	2685 Lombard Ave	SFR	105	35	at	78/72	64	--	--
SB 968+90	2686 Lombard Ave	SFR	64	35	emb	78/72	72	Y	--
SB 969+80	353 S Capitol Ave	SFR	75	45	emb	78/72	73	Y	Y
SB 970+50	455 S Capitol Ave	SFR	76	45	emb	78/72	73	Y	Y
SB 971+30	459 S Capitol Ave	COM	65	45	emb	84	74	--	--
SB 973+00	461 S Capitol Ave	COM	73	55	ag	84	73	--	--
SB 978+00	674 Excalibur Drive	SFR	193	55	ag	78/72	69	--	--
SB 979+50	692 Excalibur Drive	SFR	196	55	ag	78/72	69	--	--
SB 979+00	710 Excalibur Drive	SFR	200	55	ag	78/72	69	--	--
SB 979+50	728 Excalibur Drive	SFR	200	55	ag	78/72	68	--	--



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Station Number	Receiver Address	Rec. Type	Distance Near Track (ft)	Speed (mph)	Track Type	FTA Detailed Criteria (VdB)	Unmitigated Project Vib., (VdB)	FTA Impact Before Vib. Control?	FTAImpact After Vib. Control? <sup>1</sup>
SB 979+80	731 S Capitol Ave	SFR	113	55	ag	78/72	71	--	--
SB 980+50	747 S Capitol Ave	SFR	120	55	ag	78/72	71	--	--
SB 981+10	763 S Capitol Ave	SFR	121	55	ag	78/72	71	--	--
SB 983+00	2693 Bambi Ln	SFR	115	55	ag	78/72	71	--	--
SB 984+40	807 Capitol Ave	SFR	135	55	ag	78/72	70	--	--
SB 985+10	821 Capitol Ave	SFR	134	55	ag	78/72	70	--	--
SB 985+60	835 Capitol Ave	SFR	136	55	ag	78/72	70	--	--
SB 986+10	849 Capitol Ave	SFR	138	55	ag	78/72	70	--	--
SB 986+50	863 Capitol Ave	SFR	139	55	ag	78/72	70	--	--
SB 987+10	877 Capitol Ave	SFR	137	55	ag	78/72	70	--	--
SB 987+50	891 Capitol Ave	SFR	136	55	ag	78/72	70	--	--
SB 988+10	905 Capitol Ave	SFR	133	55	ag	78/72	70	--	--
SB 988+60	921 Capitol Ave	SFR	135	55	ag	78/72	70	--	--
SB 989+10	937 Capitol Ave	SFR	129	55	ag	78/72	71	--	--
SB 989+50	953 Capitol Ave	SFR	129	55	ag	78/72	71	--	--
SB 990+00	969 Capitol Ave	SFR	121	55	ag	78/72	71	--	--
SB 990+60	985 Capitol Ave	SFR	119	55	ag	78/72	71	--	--
SB 991+00	1001 Capitol Ave	SFR	114	55	ag	78/72	71	--	--
SB 991+60	1017 Capitol Ave	SFR	111	55	ag	78/72	71	--	--
SB 992+20	1033 Capitol Ave	SFR	107	55	ag	78/72	72	Y	Y
SB 992+70	1049 Capitol Ave	SFR	105	55	ag	78/72	72	Y	Y
SB 993+10	1091 Capitol Ave	COM	93	55	ag	84	72	--	--
SB 994+00	2695 Story Rd	COM	90	55	ag	84	73	--	--
SB 996+50	2690 Story Rd	COM	102	55	ag	84	72	--	--
SB 998+80	2598 Brenford Dr	SFR	156	55	ag	78/72	69	--	--
SB 999+30	2594 Brenford Dr	SFR	92	55	ag	78/72	73	Y	Y
SB 1000+00	2590 Brenford Dr	SFR	89	55	ag	78/72	73	Y	Y
SB 1000+50	2586 Brenford Dr	SFR	95	55	ag	78/72	72	Y	Y
SB 1001+00	2582 Brenford Dr	SFR	81	55	ag	78/72	73	Y	Y
SB 1001+60	2578 Brenford Dr	SFR	79	55	ag	78/72	73	Y	Y
SB 1002+10	2574 Brenford Dr	SFR	79	55	ag	78/72	73	Y	Y
SB 1002+80	2570 Brenford Dr	SFR	82	55	ag	78/72	73	Y	Y
SB 1003+20	2568 Brenford Dr	SFR	72	55	ag	78/72	74	Y	Y
SB 1003+80	2564 Brenford Dr	SFR	81	55	ag	78/72	73	Y	Y
SB 1004+40	2560 Brenford Dr	SFR	93	55	ag	78/72	72	Y	Y
SB 1005+00	2556 Brenford Dr	SFR	95	55	ag	78/72	72	Y	Y
SB 1005+40	2552 Brenford Dr	SFR	83	55	ag	78/72	73	Y	Y
SB 1006+00	2548 Brenford Dr	SFR	82	55	ag	78/72	73	Y	Y
SB 1006+60	2544 Brenford Dr	SFR	73	55	ag	78/72	74	Y	Y
SB 1007+10	2540 Brenford Dr	SFR	81	55	ag	78/72	73	Y	Y
SB 1007+20	2536 Brenford Dr	SFR	122	55	ag	78/72	71	--	--
SB 1009+00	3501 E Capitol Expy	COM	78	55	ag	84	68	--	--
SB 1012+00	Foxdale Village Foxdale Loop	MFR	125	55	ag	78/72	66	--	--
SB 1014+50	Foxdale Village Foxdale Loop	MFR	124	55	ag	78/72	66	--	--
SB 1018+00	Foxdale Village Foxdale Loop	MFR	125	55	ag	78/72	66	--	--
SB 1021+00	2529 Greenstone Ct	SFR	140	55	ag	78/72	70	--	--
SB 1021+40	2535 Greenstone Ct	SFR	98	55	ag	78/72	72	Y	Y
SB 1022+00	2540 Greenstone Ct	SFR	79	55	ag	78/72	73	Y	Y
SB 1022+70	2534 Greenstone Ct	SFR	109	55	ag	78/72	71	--	--
SB 1024+10	2537 Whitestone Ct	SFR	88	55	ag	78/72	73	Y	Y
SB 1024+90	2538 Whitestone Ct	SFR	86	55	ag	78/72	73	Y	Y
SB 1025+50	2530 Whitestone Ct	SFR	100	55	ag	78/72	72	Y	Y



Station Number	Receiver Address	Rec. Type	Distance Near Track (ft)	Speed (mph)	Track Type	FTA Detailed Criteria (VdB)	Unmitigated Project Vib., (VdB)	FTA Impact Before Vib. Control?	FTA Impact After Vib. Control? <sup>1</sup>
SB 1026+90	2533 Bluestone Ct	SFR	87	55	ag	78/72	73	Y	Y
SB 1027+40	2532 Bluestone Ct	SFR	80	55	ag	78/72	73	Y	Y
SB 1027+80	2526 Bluestone Ct	SFR	112	55	ag	78/72	71	--	--
SB 1029+30	2517 Brownstone Ct	SFR	89	55	ag	78/72	73	Y	Y
SB 1030+00	2518 Brownstone Ct	SFR	72	55	ag	78/72	74	Y	Y
SB 1030+50	2510 Brownstone Ct	SFR	118	55	ag	78/72	71	--	--
SB 1032+00	1646 Pinkstone Ct	SFR	94	55	ag	78/72	72	Y	Y
SB 1032+70	1652 Pinkstone Ct	SFR	88	55	ag	78/72	73	Y	Y
SB 1033+10	1658 Pinkstone Ct	SFR	94	55	ag	78/72	72	Y	Y
SB 1034+60	1682 Silverstone Pl	SFR	98	55	ag	78/72	72	Y	Y
SB 1035+30	1690 Silverstone Pl	SFR	82	55	ag	78/72	73	Y	Y
SB 1035+80	1698 Silverstone Pl	SFR	129	55	ag	78/72	71	--	--
							<b># Impacts</b>	73	72

at: At-grade, emb: Embankment, ag: Aerial guideway

<sup>1</sup>Vibration control is TDA only. If bridge bearings or floating slab track is used all operational vibration impacts could be removed.

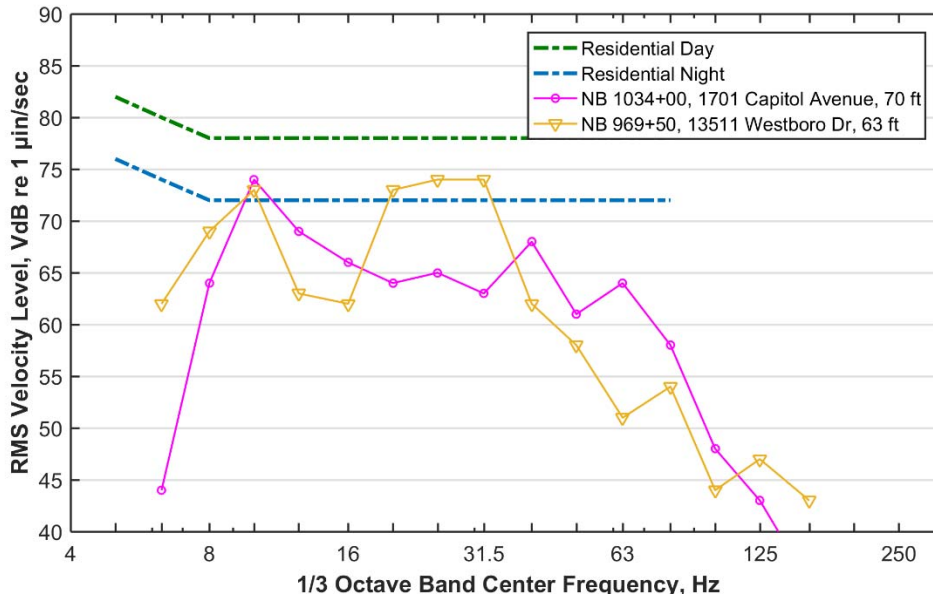


Figure 10: Estimated Vibration Spectrum for Receiver NB 1034+00, 70 ft and NB 969+50, 63 ft.

## 6.2 Potential Vibration Control Measures

Vibration isolation systems provide no reduction at or below the system's resonant frequency, they tend to amplify vibration at frequencies near the resonant frequency and they isolate vibration at frequencies one or two 1/3-octaves above the resonance frequency. Since any isolation system may both amplify and attenuate vibration at different frequencies, the spectrum of vibration that is being mitigated must be considered when choosing an appropriate isolation system. This analysis has indicated that the 10 Hz 1/3-octave band is the frequency range in which the vibration is estimated to exceed the FTA detailed vibration criteria at most receivers. 10 Hz is considered low frequency. This feature around 10 Hz may be due to the LRV primary suspension, which typically has a resonant mode in the 8 to 12 Hz range. It is not conclusively known if this is currently the case and positively identifying the primary suspension resonance in FDL data can be ambiguous. However, an examination of the FDL data from the 2007 SEIR (both ballasted and aerial track), and the 2013 Sound Transit FDL data (both aerial and at-grade DF track) all showed a similar trend of elevated FDL levels between 35 mph and 55 mph at 10 Hz, thus supporting the notion that the effect is vehicle based. The other contributing factor are the LSRs, which have high levels at low frequencies. The combination of these two is giving rise to high operational vibration levels at unusually large distances from the track.

It is noted that the predictions made in this analysis are conservative and as such are designed to be higher than those seen in measurements under normal operating conditions. For the operational vibration predictions this conservatism arises from the use of the building adjustment factors, the safety factor and the empirically established aerial structure adjustment factor, particularly below 40 Hz (see Figure 8). This should be kept in mind when selecting mitigation measures, as many of the predicted operational vibration impacts are at or just above the impact criteria.



Mitigation is recommended to reduce the vibration impacts to the homes in vicinity of NB 977+70, where the support bents are within 33 feet of one home (660 S. Capitol Avenue). Reducing the operational speed to 35 mph in this section would also remove the nighttime impacts. Relocating the supports further from the homes would decrease the vibration exceedances though it would not remove them unless the distances are approximately 100 feet.

Potential operational vibration mitigation measures are summarized below.

**Tire Derived Aggregate:** Tire derived aggregate (TDA) is a resilient underlayment for ballasted track and has vibration mitigating properties potentially above 16 Hz. Use of TDA would likely remove the exceedances in the 20 Hz to 31.5 Hz range for the homes near the embankment, however those homes would still have exceedances occurring in the 10 Hz band.

**Resilient Fasteners:** Highly compliant rail fasteners, such as the in-shear Cologne Egg, are an effective solution for controlling groundborne vibration and groundborne noise. However, resilient fasteners mitigation properties are poor below about 31.5 Hz and may even cause vibration amplification at lower frequencies. Given that most vibration impacts are occurring in the 10 Hz band, resilient fasteners are not a recommended solution.

**Floating Slab Track:** Floating slab tracks (FST) are effective for reducing low frequency vibration. They have been used on many transit systems throughout North America and abroad, though not commonly on aerial structures. Floating slab isolation systems tend to scale up in size and cost as the targeted frequency spectrum for mitigation decreases. To effectively control vibration at 10 Hz, a floating slab with a target resonance frequency of 5 to 6 Hz would be required. However, we are aware of only a single FST on aerial guideway in operation. The system is in Hong Kong and we have not seen reports of its in-service performance. Therefore, this mitigation measure is still theoretical and would need to be analyzed further to assess its effectiveness.

**Isolation Bearings:** Low frequency vibration isolation can also be accomplished between the aerial structure and the support bent by the use of either tuned steel coils or rubber bridge bearings that are installed on top of the columns. Resilient bridge bearings are designed and function like the springs or rubber pads that support floating slab track. However, in an elevated structure application, the springs have to support much greater structural loads, which complicate the design. As in the case with floating slab track on aerial guideway, there are only a few of these systems in operation. Such a system ([www.gerbusa.com](http://www.gerbusa.com)) has been installed at Miami Central Station, on the All Aboard Florida-Brightline network. This system is just recently completed and is currently undergoing in-service testing.

It is noted that the use of either FST or isolation bearings for the aerial guideway vibration mitigation are complicated solutions requiring extensive additional analysis and design from a structural and vibrational perspective.

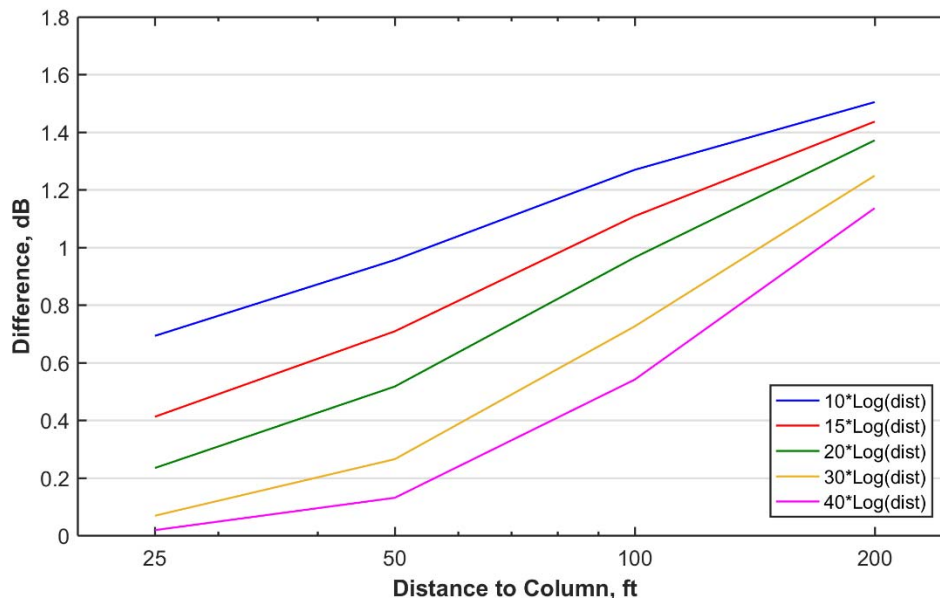
**Operational Measures:** Generally, reducing train speed typically results in lower groundborne vibration levels. However, this effect is not always apparent when the changes in speed are small, for example less than 10 mph, and the effect may have a complex frequency dependency. The 2007 SEIR FDL, Figure 7, generally shows a reduction in input forces with decreasing speed. However, it is noted that at 10 Hz there is no difference between trains moving 55 mph and those at 45 mph. A substantial decrease at 10 Hz is seen when the train speed is reduced to 35 mph, thus demonstrating the complicated and non-intuitive nature in which the train speed and track dynamics are related. Running the train at 35 mph would eliminate all 10 Hz exceedances.

Reducing the number of cars could also potentially reduce the vibration levels depending on the local soil conditions and distance from the column to the receiver. Close to the column the difference would be





diminishingly small, therefore the effect of train length varies depending on site specific conditions. The current analysis assumes a 3-car consist. A vibration adjustment based on a spreadsheet model was determined for the difference between a 3-car and 2-car consist and is shown in Figure 11. The horizontal axis is the distance from the tracks and the vertical axis is the expected increase in vibration levels for a 3-car train compared to a 2-car train. The different lines on the plot represent different soil propagation characteristics. For example, the blue line represents soil where vibration travels very efficiently, and the pink line represents soil where vibration does not travel very efficiently.



**Figure 11: Expected Vibration Difference for a 3-Car Train Compared to a 2-Car Train**

## 7. PILE DRIVING NOISE AND VIBRATION

The aerial guideway in the Project area will be supported by approximately 76 columns spaced 130 to 150 ft apart and positioned along the center of Capitol Expressway, however only about 60 columns are relevant to noise and vibration concerns due to their proximity to sensitive receivers. Previous geotechnical information has indicated that the subsurface conditions in the Project area are composed of fairly homogenous soil with firm to stiff clay, and it is anticipated that a traditional percussive or impact hammer will be employed to drive the foundation piles at each column location to support a cast-in-place pilecap.

Based on the 2008 design, the precast concrete piles are 18 in square and will be up to 72 ft long. There are on average 30 piles per column location. Each pile may require up to 60 minutes of hammering to drive to depth. Assuming six hours of continuous driving there may only be 6 piles driven per day for a total duration of approximately four to five days of driving per column location. Given that there are about 60 column sites and with two construction crews working simultaneously, there would be approximately 120 to 150 days of piling activity in the Project area.

Noise and vibration measurements concerning pile driving should be conducted in a test phase that will be useful to confirm actual levels based on the contractor's equipment, means and methods. Maximum and equivalent noise levels should be collected to test any noise control measures. Vibration monitoring



should measure the vibration velocity as a function of pile depth and at several distances from the pile. Because soil conditions may vary within the project site, vibration monitoring should be performed at most column locations. Pending the outcome of noise and vibration levels from test piles, it will be determined how many columns must separate simultaneous work crews.

## 7.1 Pile Driving Noise

For impact driven piles the primary noise source is generated by the contact between the hammer and the pile. As opposed to metal piles, concrete piles have less noise generated along the length of the exposed pile when struck (i.e. less ringing). Research has shown that impact piles can achieve unmitigated noise levels up to 101 dBA at 50 ft from the source, while noise levels up to 96 dBA at 50 ft can be generated from vibratory driven piles\*.

Though no standardized criteria have been developed for assessing construction noise impacts, FTA detailed assessment guidelines recommend daytime limits of 80 Leq (8-hour) dBA for residential land use and 85 Leq (8-hour) dBA for commercial land use. Additionally, a maximum noise level of 90 Leq (1-hour) dBA is recommended for residential land use and 100 Leq (1-hour) dBA for commercial land use. Pile driving will only occur during daytime hours. As the total duration of impacting time decreases in a work day, a higher noise level threshold is allowed to comply with FTA criteria, as shown in Table 11.

**Table 11: Noise Level Adjustment for Daily Piling Driving to Comply with FTA Criteria**

Hours (in 8-hour day) of Construction Activity	Allowed 1-Hour Leq (dBA) for Pile Driving	Allowable Increase, dB
1	89	9
2	86	6
3	84	4
4	83	3
5	82	2
6	81	1
7	81	1
8	80	0

The projected noise levels for pile driving activities were modeled using CadnaA version 4.0, a three-dimensional graphics-oriented noise modeling program that uses the International Standards Organization (ISO) 9613.2, a general purpose standard for outdoor noise propagation. CadnaA incorporates the following elements:

- The noise generated by the equipment at a reference distance.
- A propagation model that calculates how the noise level varies with distance.
- A prediction model that sums the noise of each source at sensitive locations.
- The effects of ground cover, topography, elevation of construction equipment and/or receivers, and shielding of building structures.

Pile driving noise predictions are summarized in Table 12, assuming 6 hours of pile driving each day. A detailed list of construction noise levels for each receiver is given in Table 14. The modeled noise

\* U.S. Environmental Protection Agency, *Noise from Construction Equipment and Operations, Building Equipment and Home Appliances*. NTID300.1, December 31, 1971.



exposure indicates that unshielded receivers within 300 ft of pile driving locations may exceed a Leq (8-hour) of 80 dBA and receivers within 110 ft may exceed 90 dBA. The analysis indicates that most first row homes will potentially exceed the 80 dBA threshold. The noise model reflects the location of columns as given in the most recent general arrangement drawings obtained from VTA.

The location of receivers where pile driving noise impacts are predicted are as follows:

- Fifteen residential properties located east of the alignment between Wilbur Avenue and Mervyns Way will experience construction noise impacts. One home is within 25 feet of the closest pile.
- Five institutional/commercial properties located east of the alignment between Mervyns Way and Story Road will experience construction noise impacts.
- Forty-one residential properties located east of the alignment between Story Road and Ocala Avenue will experience construction noise impacts.
- Twenty-seven residential properties located east of the alignment between Ocala Avenue and Cunningham Avenue will experience construction noise impacts.
- Two residential properties located west of the alignment along South Capitol Avenue will experience construction noise impacts.
- Two commercial properties located west of the alignment along South Capitol Avenue will experience construction noise impacts.
- Twenty-one residential properties located west of the alignment between Excalibur Drive and Story Road will experience construction noise impacts.
- Three commercial properties located west of the alignment near the intersection of Capitol Expressway and Story Road will experience construction noise impacts.
- Seventeen residential properties located west of the alignment between Story Road and Foxdale Loop will experience construction noise impacts.
- One commercial property located west of the alignment near the intersection of Capitol Expressway and Foxdale Loop will experience a construction noise impact.
- Three residential properties located west of the alignment between along Foxdale Loop will experience construction noise impacts.
- Nineteen residential properties located west of the alignment between Foxdale Drive and Ocala Avenue will experience construction noise impacts.



**Table 12: Predicted Impact Pile Driving Noise**

Direction/Section	Number - Type of Receivers	FTA Impact Criteria Leq (8-hr) dBA <sup>1</sup>	Unmitigated Noise Level Leq (8-hr) dBA <sup>2</sup>		Number of Predicted FTA Impacts <sup>5</sup>			
			Nearest Pile	Next-Nearest Pile	Unmitigated	w/ Impact Cushion <sup>3</sup>	w/ Impact Cushion & Pre-Drill 1/3 of Pile	w/ Impact Cushion & Noise Shield <sup>4</sup>
NB 964+50 to 981+20 Wilbur Ave. to Mervyns Way	22 - SFR	80	71 - 97	70 - 89	15	11	9	2
NB 986+70 to 995+50 Mervyns Way to Story Rd.	5 - INST/COM	80/85	86 - 87	83 - 86	5	3	2	0
NB 998+50 to 1035+90 Story Rd. to Ocala Ave.	41 - SFR	80	83 - 90	80 - 88	41	40	25	0
NB 1037+60 to 1049+50 Ocala Ave. to Cunningham Ave.	27 - SFR	80	84 - 89	79 - 86	27	22	9	0
SB 967+50 to 970+50 S. Capitol Ave.	5 - SFR	80	70 - 83	67 - 80	2	0	0	0
SB 971+30 to 973+00 S. Capitol Ave.	2 - COM	85	90 - 93	84 - 90	2	2	1	0
SB 978+00 to 992+70 Excalibur Dr. to Story Rd.	25 - SFR	80	78 - 89	76 - 87	21	21	21	0
SB 993+10 to 996+50 Story Rd.	3 - COM	85	88 - 90	85 - 87	3	1	0	0
SB 998+80 to 1007+20 Story Rd. to Foxdale Loop	17 - SFR	80	83 - 88	80 - 86	17	12	2	0
SB 1009+00 E. Capitol Expy.	1 - COM	85	91	87	1	1	0	0
SB 1012+00 to 1018+00 Foxdale Loop	3 - MFR	80	85 - 86	83 - 85	3	3	0	0
SB 1021+00 to 1035+80 Foxdale Dr. to Ocala Ave.	19 - SFR	80	85 - 89	81 - 85	19	19	11	0
<b># Impacts</b>					<b>156</b>	<b>135</b>	<b>80</b>	<b>2</b>

<sup>1</sup>Criteria for SFR/MFR/INST is Leq (8-hr) 80 dBA, and for COM it is Leq (8-hr) 85 dBA

<sup>2</sup>Noise levels assume the height of the impact is 30 ft. Existing wayside sound walls provide an increasing level of reduction to noise levels as the height of the impact location is reduced to ground height.

<sup>3</sup>Assumes impact cushion provides 5 dBA reduction.

<sup>4</sup>Assumes impact cushion + noise shield provides 15 dBA reduction, does not include pre-drilling.

<sup>5</sup>Number of impacts due to noise generated from nearest pile.



## 7.2 Pile Driving Vibration

The primary concern regarding construction vibration relates to risk of damage. Vibration is generally assessed in terms of peak particle velocity (PPV) for risk of building damage. PPV is the appropriate metric for evaluating the potential of building damage and is often used when monitoring blasting and construction vibration because it relates to the stresses that are experienced by the buildings. This is in contrast to rail transit operational vibration that is expressed as RMS vibration levels, which has been shown to be a metric more correlated to human annoyance.

Research has indicated that the upper threshold for maximum particle velocity for impact piling is about 1.52 in/s at 25 ft from the source, while vibration levels of 0.73 in/s at 25 ft are an upper limit for vibratory driven piles\*. Conservative estimates for impact piling vibration levels are calculated by distance adjusting the upper threshold particle velocity value of 1.52 in/s at 25 ft. Human perceptibility of vibration is strongly dependent on the total exposure time of the vibration disturbance. For example, a steady state vibration of 0.05 in/s may be strongly perceptible, whereas a short transient vibration of 0.05 in/s is barely perceptible†. Table 13 summarizes the expected vibration amplitudes from impact pile driving and indicates that receivers within 100 ft of piling activity are likely to exceed FTA damage criteria. Results assume that the closest column is directly in front of each receiver and the next closest column is 130 ft further down the centerline of the alignment. Although the expected vibration due to piling would fluctuate as the pile toe depth increases, the values in Table 13 are a conservative estimate that do not account for the increased depth of the pile toe. A detailed list of construction vibration levels for each receiver is given in Table 14.

The location of receivers where pile driving vibration impacts are predicted are as follows:

- Nine properties located east of the alignment between Wilbur Avenue and Mervyns Way will experience construction vibration impacts. One home is within 25 feet of the closest pile.
- Five properties located east of the alignment between Story Road and Ocala Avenue will experience construction vibration impacts.
- Twenty-one properties located east of the alignment between Ocala Avenue and Cunningham Avenue will experience construction vibration impacts.
- Fifteen properties located west of the alignment between Story Road and Foxdale Loop will experience construction vibration impacts.
- Fourteen properties located west of alignment between Foxdale Drive and Ocala Avenue will experience construction vibration impacts.

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\* D.J. Martin, *Ground Vibrations from Impact Pile Driving during Road Construction*, Supplementary Report 544, United Kingdom Department of the Environment, Department of Transport, Transport and Road Research Laboratory, 1980

† Wiss, J.F. (1967). *Damage Effects of Pile Driving Vibration*. Highway Research Board Record no. 155



**Table 13: Predicted Impact Pile Driving Vibration**

Direction/Section	Number – Type of Receivers	Annoy. Criteria PPV, (in/s) <sup>1</sup>	FTA Damage Criteria PPV, (in/s) <sup>2</sup>	Unmitigated Vibration Level PPV, (in/s)		Number of Predicted FTA Impacts	
				Nearest Pile	Next-Nearest Pile	Unmitigated	CIDH Piles
NB 964+50 to 981+20 Wilbur Ave. to Mervyns Way	22 - SFR	0.03	0.2	0.10 - 1.52	0.07 - 0.12	9	0
NB 986+70 to 995+50 Mervyns Way to Story Rd.	5 - INST/COM	0.06	0.5	0.13 - 0.16	0.08 - 0.08	0	0
NB 998+50 to 1035+90 Story Rd. to Ocala Ave.	41 - SFR	0.03	0.2	0.11 - 0.39	0.07 - 0.11	5	0
NB 1037+60 to 1049+50 Ocala Ave. to Cunningham Ave.	27 - SFR	0.03	0.2	0.10 - 0.32	0.08 - 0.10	21	0
SB 967+50 to 970+50 S. Capitol Ave.	5 - SFR	0.03	0.2	<0.10	<0.10	0	0
SB 971+30 to 973+00 S. Capitol Ave.	2 - COM	0.06	0.5	0.11 - 0.32	0.07 - 0.10	0	0
SB 978+00 to 992+70 Excalibur Dr. to Story Rd.	25 - SFR	0.03	0.2	0.08 - 0.19	0.06 - 0.09	0	0
SB 993+10 to 996+50 Story Rd.	3 - COM	0.06	0.5	0.20 - 0.25	0.09 - 0.10	0	0
SB 998+80 to 1007+20 Story Rd. to Foxdale Loop	17 - SFR	0.03	0.2	0.10 - 0.35	0.06 - 0.11	15	0
SB 1009+00 E. Capitol Expy.	1 - COM	0.03	0.5	0.31	0.10	0	0
SB 1012+00 to 1018+00 Foxdale Loop	3 - MFR	0.03	0.2	0.15	0.08	0	0
SB 1021+00 to 1035+80 Foxdale Dr. to Ocala Ave.	19 - SFR	0.03	0.2	0.12 - 0.35	0.07 - 0.11	14	0
				<b># Impacts</b>		<b>64</b>	<b>0</b>

<sup>1</sup>Annoyance criteria based on an equivalent PPV to RMS value of 78 VdB for SFR/MFR and 84 VdB for COM, assuming a crest factor of 4.

<sup>2</sup>Damage criteria based on FTA Guidance Manual. These criteria are only to identify hot spots and are not to indicate thresholds where actual residential building damage may occur. Several studies in the U.S. and abroad have shown that particle velocities in excess of 4.0 in/s are required to cause plaster cracks in dwellings. With appropriate conservatism, studies have agreed that vibration levels of 2.0 in/s are safe with regard to plaster cracks in residential structures. See Wiss, J.F. (1967).

<sup>3</sup> Cast in drilled hole piles (CIDH). If vibratory driven piles are used one impact would remain at NB 977+70 (660 S. Capitol Ave.)

### 7.3 Piling Driving Noise Control Measures

At a rate of four to five days per column site, the noise from impact pile driving would potentially exceed the FTA impact criteria for a minimum of four days at most receptors. Results indicate that FTA criteria may be exceeded due to pile driving at distances of three columns, resulting in potentially twelve to fifteen days of exceedances for each receiver. To reduce the level of noise such that only nearest column



locations produce an exceedance (four to five days of exceedance per receiver) it is sufficient to implement a noise control measure that provides at least 5 dB of reduction.

**Impact Cushion:** Up to 5 dB of noise reduction may be obtained by the use of a suitable pile cap cushion. Figure 12 shows the use of both a wood block and burlap bags as noise mitigating cushions. The crew initially uses only burlap bags that reduce noise but provides high energy transfer. The crew adds in the wood block when driving becomes more difficult.

**Pre-Drilling:** Pre-drilling piles will reduce the total duration of impact time. If one third (one half) of the pile is pre-drilled this will reduce the total impact time from 6 hours per day to 4 (3) hours per day, which decreases the total noise in the 8-hour work day by 2 (3) dB. Further discussion on non-impact piling methods is given below in the section on construction vibration control measures.

**Noise Shield:** A noise reduction of 5 to 10 dB may require the use of a noise shield for the impact pile driver and/or reducing the total daily time spent pile driving, as shown in Table 11. A noise shield can reduce noise levels by a minimum of 5 dB if properly constructed and installed, see Figure 13. The following noise shield properties are recommended:

- Use a frame to secure the acoustic blankets or paneling
- Have a minimum height of 20 ft to cover the bottom half of the hammer and the top 10 ft of the pile or to the ground.
- Use a solid material with a minimum surface density of 3 lb/ft<sup>2</sup> or mass-loaded acoustic blankets with at least STC 25.
- The shield should surround the pile and hammer by at least 75 % (can be open toward the crane operator). Ideally, the hammer and pile will be completely surrounded.
- Position the crane such that the opening of the shield does not face any sensitive receivers.
- Overlap or seal any gaps in the shield.

**Contractor Controls:** It is recommended that the contractor incorporate into their means and methods of construction specification the following:

- Comply with construction noise criteria indicated in Section 3.4
- Comply with construction vibration criteria indicated in Section 3.4.
- Use electrically-powered equipment to the extent practical.
- Temporary noise barriers and sound-control curtains should be erected where project activity is unavoidably close to noise-sensitive receivers.
- Designated haul routes would be used based on the least overall noise impact route, with heavily-loaded trucks away from residential streets, if possible. Identification of haul routes would consider streets with the fewest noise sensitive receivers if no alternatives are available.
- Earth-moving equipment, fixed noise-generating equipment, stockpiles, staging areas, and other noise-producing operations would be located as far as practicable from noise-sensitive receivers.
- Use of horns, whistles, alarms, and bells would be limited.
- Perform an initial piling noise and vibration survey to determine baseline levels. Perform noise and vibration monitoring throughout the progression of piling activities in the Project area.
- Conduct a detailed pre-construction crack survey at homes where FTA impacts are predicted.



**Table 14: Individual Construction Noise and Vibration Predictions**

Station Number	Receiver Address	Rec. Type	Unmitigated Noise Level Leq (8-hr) dBA		Unmitigated Vibration Level PPV, (in/s)	Unmitigated FTA Exceedance?	
			Nearest Pile	Next Nearest Pile	Nearest Pile	Noise	Vib.
NB 964+50	2705 Wilbur Ave	SFR	71	70	0.01	--	--
NB 966+00	2706 Wilbur Ave	SFR	73	72	0.01	--	--
NB 967+00	420 Capitol Ave	SFR	74	73	0.02	--	--
NB 967+50	440 Capitol Ave	SFR	75	74	0.02	--	--
NB 968+10	460 Capitol Ave	SFR	76	75	0.02	--	--
NB 968+80	480 Capitol Ave	SFR	78	76	0.03	--	--
NB 969+50	13511 Westboro Dr	SFR	80	77	0.07	Y	--
NB 970+90	13510 Westboro Dr	SFR	86	82	0.11	Y	--
NB 971+70	500 Capitol Ave	SFR	90	85	0.11	Y	--
NB 972+20	520 Capitol Ave	SFR	92	88	0.22	Y	Y
NB 973+00	540 Capitol Ave	SFR	92	89	0.32	Y	Y
NB 973+50	560 Capitol Ave	SFR	92	89	0.30	Y	Y
NB 974+10	13501 Highwood Dr	SFR	95	88	0.47	Y	Y
NB 975+80	13500 Highwood Dr	SFR	96	88	0.45	Y	Y
NB 976+50	620 S Capitol Ave	SFR	93	89	0.37	Y	Y
NB 977+20	640 S Capitol Ave	SFR	95	86	0.41	Y	Y
NB 977+70	660 S Capitol Ave	SFR	97	89	1.52	Y	Y
NB 978+50	10301 Dover Way	SFR	85	80	0.23	Y	Y
NB 979+10	10291 Dover Way	SFR	83	80	0.18	Y	--
NB 979+70	10281 Dover Way	SFR	82	80	0.15	Y	--
NB 980+50	10271 Dover Way	SFR	79	78	0.19	--	--
NB 981+20	10261 Dover Way	SFR	82	82	0.17	Y	--
NB 986+70	888 S Capitol Ave	COM	87	86	0.14	Y	--
NB 988+30	920 S Capitol Ave	CH	87	84	0.13	Y	--
NB 990+50	990 S Capitol Ave	CH	86	86	0.14	Y	--
NB 992+80	2701 Story Rd	COM	87	84	0.13	Y	--
NB 995+50	2710 Story Rd	COM	87	83	0.16	Y	--
NB 998+50	2710 Kollmar Dr	MFR	90	85	0.20	Y	--
NB 999+90	2709 Sussex Dr	SFR	88	83	0.16	Y	--
NB 1001+60	1210 Capitol Ave	SFR	88	87	0.16	Y	--
NB 1002+40	1222 Capitol Ave	SFR	89	86	0.16	Y	--
NB 1003+90	1244 Tudor Ct	SFR	88	88	0.16	Y	--
NB 1004+90	1260 Capitol Ct	SFR	89	86	0.16	Y	--
NB 1006+20	1276 Capitol Ct	SFR	89	87	0.16	Y	--
NB 1007+10	2703 Murtha Dr	SFR	89	85	0.16	Y	--
NB 1008+80	2704 Murtha Dr	SFR	88	87	0.16	Y	--
NB 1009+80	1336 Capitol Ave	SFR	89	86	0.16	Y	--
NB 1011+10	2706 Bristol Dr	SFR	88	87	0.16	Y	--
NB 1012+10	2707 Dublin Dr	SFR	88	87	0.16	Y	--
NB 1013+60	2704 Dublin Dr	SFR	88	87	0.16	Y	--
NB 1014+50	1440 Capitol Ave	SFR	88	87	0.16	Y	--
NB 1016+00	1460 Capitol Ave	SFR	88	86	0.16	Y	--
NB 1017+00	1492 Capitol Ave	SFR	87	86	0.16	Y	--
NB 1018+30	1512 Capitol Ave	SFR	88	85	0.14	Y	--
NB 1019+40	2705 Capitol Ave	SFR	88	85	0.15	Y	--
NB 1021+00	2704 Capitol Ave	SFR	88	85	0.16	Y	--
NB 1021+60	1564/1566 Capitol Ave	SFR	88	84	0.11	Y	--
NB 1022+30	1572 Capitol Ave	SFR	86	85	0.12	Y	--
NB 1022+90	1576/1578 Capitol Ave	SFR	86	84	0.11	Y	--
NB 1023+50	1584 Capitol Ave	SFR	86	85	0.12	Y	--
NB 1024+10	1588/1590 Capitol Ave	SFR	86	85	0.11	Y	--
NB 1024+70	1596 Capitol Ave	SFR	86	84	0.12	Y	--





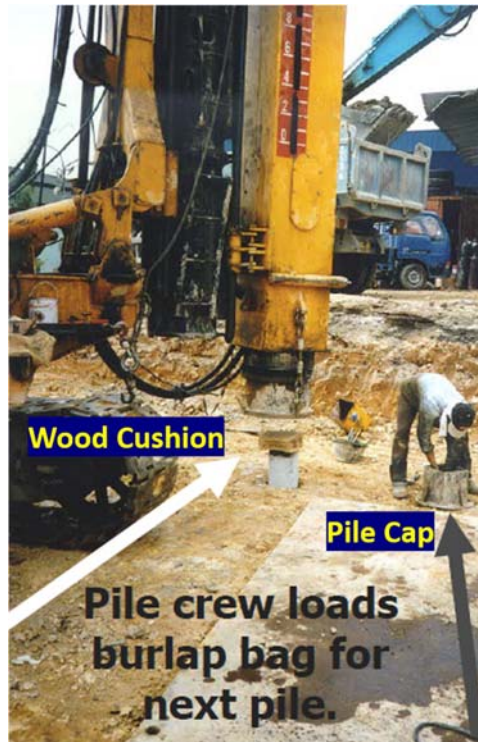
Station Number	Receiver Address	Rec. Type	Unmitigated Noise Level Leq (8-hr) dBA		Unmitigated Vibration Level PPV, (in/s)	Unmitigated FTA Exceedance?	
			Nearest Pile	Next Nearest Pile	Nearest Pile	Noise	Vib.
NB 1026+00	1606/1608 Capitol Ave	SFR	86	85	0.12	Y	--
NB 1026+60	1614 Capitol Ave	SFR	86	85	0.13	Y	--
NB 1027+20	1618/1620 Capitol Ave	SFR	87	84	0.12	Y	--
NB 1027+90	1624/1626 Capitol Ave	SFR	86	85	0.13	Y	--
NB 1028+50	1632 Capitol Ave	SFR	87	84	0.12	Y	--
NB 1029+00	1636/1638 Capitol Ave	SFR	86	85	0.13	Y	--
NB 1029+60	1654 Capitol Ave	SFR	86	84	0.13	Y	--
NB 1030+10	1660 Capitol Ave	SFR	86	85	0.13	Y	--
NB 1030+70	1666 Capitol Ave	SFR	87	84	0.13	Y	--
NB 1031+30	1672 Capitol Ave	SFR	86	85	0.13	Y	--
NB 1031+90	1678 Capitol Ave	SFR	86	85	0.13	Y	--
NB 1032+50	1684 Capitol Ave	SFR	87	83	0.13	Y	--
NB 1034+00	1701 Capitol Ave	SFR	89	86	0.39	Y	Y
NB 1034+80	1923 Evermont Ct	SFR	85	84	0.30	Y	Y
NB 1035+20	1917 Evermont Ct	SFR	85	80	0.29	Y	Y
NB 1035+90	1911 Evermont Ct	SFR	83	83	0.20	Y	Y
NB 1037+60	1756 Home Gate Dr	SFR	86	84	0.26	Y	Y
NB 1038+00	1758 Home Gate Dr	SFR	87	80	0.29	Y	Y
NB 1038+30	1760 Home Gate Dr	SFR	86	81	0.28	Y	Y
NB 1038+60	1762 Home Gate Dr	SFR	84	82	0.18	Y	--
NB 1038+90	1764 Home Gate Dr	SFR	86	84	0.22	Y	Y
NB 1039+20	1766 Home Gate Dr	SFR	87	83	0.29	Y	Y
NB 1039+50	1768 Home Gate Dr	SFR	84	79	0.21	Y	Y
NB 1039+80	1770 Home Gate Dr	SFR	86	82	0.23	Y	Y
NB 1040+10	1772 Home Gate Dr	SFR	85	84	0.23	Y	Y
NB 1040+50	1774 Home Gate Dr	SFR	86	83	0.28	Y	Y
NB 1040+90	1776 Home Gate Dr	SFR	84	80	0.29	Y	Y
NB 1041+20	1778 Home Gate Dr	SFR	84	81	0.34	Y	Y
NB 1041+50	1780 Home Gate Dr	SFR	86	85	0.22	Y	Y
NB 1041+80	1782 Home Gate Dr	SFR	86	81	0.23	Y	Y
NB 1042+10	1784 Home Gate Dr	SFR	86	81	0.26	Y	Y
NB 1042+50	1786 Home Gate Dr	SFR	84	81	0.22	Y	Y
NB 1042+90	1788 Home Gate Dr	SFR	86	84	0.23	Y	Y
NB 1043+20	1790 Home Gate Dr	SFR	86	81	0.25	Y	Y
NB 1044+10	1995 Supreme Dr	SFR	86	81	0.22	Y	Y
NB 1045+10	2001 Supreme Dr	SFR	88	84	0.29	Y	Y
NB 1046+00	2009 Supreme Dr	SFR	85	82	0.17	Y	--
NB 1046+70	2015 Supreme Dr	SFR	87	86	0.16	Y	--
NB 1047+20	2021 Supreme Dr	SFR	87	85	0.18	Y	--
NB 1047+80	2027 Supreme Dr	SFR	88	86	0.20	Y	Y
NB 1048+50	2033 Supreme Dr	SFR	87	82	0.17	Y	--
NB 1049+00	2039 Supreme Dr	SFR	88	83	0.20	Y	Y
NB 1049+50	2045 Supreme Dr	SFR	87	86	0.18	Y	--
SB 967+50	441 Capitol Ave	SFR	75	74	0.04	--	--
SB 967+50	2685 Lombard Ave	SFR	70	67	0.05	--	--
SB 968+90	2686 Lombard Ave	SFR	79	76	0.05	--	--
SB 969+80	353 S Capitol Ave	SFR	81	78	0.05	Y	--
SB 970+50	455 S Capitol Ave	SFR	83	80	0.05	Y	--
SB 971+30	459 S Capitol Ave	COM	90	84	0.11	Y	--
SB 973+00	461 S Capitol Ave	COM	93	90	0.32	Y	Y
SB 978+00	674 Excalibur Drive	SFR	78	77	0.08	--	--
SB 979+50	692 Excalibur Drive	SFR	79	76	0.09	--	--
SB 979+00	710 Excalibur Drive	SFR	79	77	0.08	--	--



Station Number	Receiver Address	Rec. Type	Unmitigated Noise Level Leq (8-hr) dBA		Unmitigated Vibration Level PPV, (in/s)	Unmitigated FTA Exceedance?	
			Nearest Pile	Next Nearest Pile	Nearest Pile	Noise	Vib.
SB 979+50	728 Excalibur Drive	SFR	78	77	0.08	--	--
SB 979+80	731 S Capitol Ave	SFR	89	87	0.17	Y	--
SB 980+50	747 S Capitol Ave	SFR	88	87	0.16	Y	--
SB 981+10	763 S Capitol Ave	SFR	87	87	0.15	Y	--
SB 983+00	2693 Bambi Ln	SFR	89	85	0.17	Y	--
SB 984+40	807 Capitol Ave	SFR	87	86	0.13	Y	--
SB 985+10	821 Capitol Ave	SFR	88	86	0.13	Y	--
SB 985+60	835 Capitol Ave	SFR	87	86	0.13	Y	--
SB 986+10	849 Capitol Ave	SFR	87	86	0.13	Y	--
SB 986+50	863 Capitol Ave	SFR	87	84	0.12	Y	--
SB 987+10	877 Capitol Ave	SFR	87	86	0.13	Y	--
SB 987+50	891 Capitol Ave	SFR	87	84	0.13	Y	--
SB 988+10	905 Capitol Ave	SFR	87	86	0.13	Y	--
SB 988+60	921 Capitol Ave	SFR	87	86	0.13	Y	--
SB 989+10	937 Capitol Ave	SFR	87	85	0.14	Y	--
SB 989+50	953 Capitol Ave	SFR	87	86	0.14	Y	--
SB 990+00	969 Capitol Ave	SFR	88	85	0.15	Y	--
SB 990+60	985 Capitol Ave	SFR	87	87	0.16	Y	--
SB 991+00	1001 Capitol Ave	SFR	89	85	0.17	Y	--
SB 991+60	1017 Capitol Ave	SFR	88	86	0.18	Y	--
SB 992+20	1033 Capitol Ave	SFR	88	87	0.19	Y	--
SB 992+70	1049 Capitol Ave	SFR	89	85	0.19	Y	--
SB 993+10	1091 Capitol Ave	COM	89	86	0.23	Y	--
SB 994+00	2695 Story Rd	COM	90	85	0.25	Y	--
SB 996+50	2690 Story Rd	COM	88	87	0.20	Y	--
SB 998+80	2598 Brenford Dr	SFR	85	82	0.10	Y	--
SB 999+30	2594 Brenford Dr	SFR	85	80	0.24	Y	Y
SB 1000+00	2590 Brenford Dr	SFR	84	82	0.25	Y	Y
SB 1000+50	2586 Brenford Dr	SFR	86	82	0.23	Y	Y
SB 1001+00	2582 Brenford Dr	SFR	83	82	0.29	Y	Y
SB 1001+60	2578 Brenford Dr	SFR	85	84	0.30	Y	Y
SB 1002+10	2574 Brenford Dr	SFR	84	82	0.30	Y	Y
SB 1002+80	2570 Brenford Dr	SFR	85	81	0.29	Y	Y
SB 1003+20	2568 Brenford Dr	SFR	83	82	0.35	Y	Y
SB 1003+80	2564 Brenford Dr	SFR	85	81	0.29	Y	Y
SB 1004+40	2560 Brenford Dr	SFR	87	86	0.23	Y	Y
SB 1005+00	2556 Brenford Dr	SFR	88	85	0.23	Y	Y
SB 1005+40	2552 Brenford Dr	SFR	86	82	0.28	Y	Y
SB 1006+00	2548 Brenford Dr	SFR	85	82	0.29	Y	Y
SB 1006+60	2544 Brenford Dr	SFR	85	82	0.35	Y	Y
SB 1007+10	2540 Brenford Dr	SFR	84	82	0.29	Y	Y
SB 1007+20	2536 Brenford Dr	SFR	86	83	0.15	Y	--
SB 1009+00	3501 E Capitol Expy	COM	91	87	0.31	Y	Y
SB 1012+00	Foxdale Village Foxdale Loop	MFR	85	85	0.15	Y	--
SB 1014+50	Foxdale Village Foxdale Loop	MFR	85	84	0.15	Y	--
SB 1018+00	Foxdale Village Foxdale Loop	MFR	86	83	0.15	Y	--
SB 1021+00	2529 Greenstone Ct	SFR	85	81	0.12	Y	--
SB 1021+40	2535 Greenstone Ct	SFR	88	82	0.22	Y	Y
SB 1022+00	2540 Greenstone Ct	SFR	86	83	0.30	Y	Y
SB 1022+70	2534 Greenstone Ct	SFR	87	84	0.18	Y	--
SB 1024+10	2537 Whitestone Ct	SFR	87	81	0.26	Y	Y



Station Number	Receiver Address	Rec. Type	Unmitigated Noise Level Leq (8-hr) dBA		Unmitigated Vibration Level PPV, (in/s)	Unmitigated FTA Exceedance?	
			Nearest Pile	Next Nearest Pile	Nearest Pile	Noise	Vib.
SB 1024+90	2538 Whitestone Ct	SFR	86	81	0.27	Y	Y
SB 1025+50	2530 Whitestone Ct	SFR	87	84	0.21	Y	Y
SB 1026+90	2533 Bluestone Ct	SFR	87	83	0.26	Y	Y
SB 1027+40	2532 Bluestone Ct	SFR	86	81	0.30	Y	Y
SB 1027+80	2526 Bluestone Ct	SFR	87	85	0.17	Y	--
SB 1029+30	2517 Brownstone Ct	SFR	89	85	0.25	Y	Y
SB 1030+00	2518 Brownstone Ct	SFR	86	85	0.35	Y	Y
SB 1030+50	2510 Brownstone Ct	SFR	87	85	0.16	Y	--
SB 1032+00	1646 Pinkstone Ct	SFR	89	84	0.23	Y	Y
SB 1032+70	1652 Pinkstone Ct	SFR	85	81	0.26	Y	Y
SB 1033+10	1658 Pinkstone Ct	SFR	88	83	0.23	Y	Y
SB 1034+60	1682 Silverstone Pl	SFR	89	83	0.22	Y	Y
SB 1035+30	1690 Silverstone Pl	SFR	85	84	0.29	Y	Y
SB 1035+80	1698 Silverstone Pl	SFR	86	83	0.14	Y	--
					<b># Impacts</b>	<b>156</b>	<b>65</b>



**Figure 12: Using Wood and Burlap Bags as a Pile Cushion on Concrete Piles, Singapore.**



**Figure 13: Impact Pile Noise Shrouds. Image on the left shows an effective enclosure. Image on the right shows a marginally effective barrier.**

#### 7.4 Piling Driving Vibration Control Measures

As previously stated, homes within 100 ft of piling activities are likely to exceed FTA damage criteria and a crack survey should be conducted on these homes, pending the outcome of on-site vibration monitoring of test piles.

**Hammer Energy:** A straightforward way to reduce PPV is to lower the hammer energy since there is a direct relationship between hammer energy and the resultant ground vibration. Ground PPV generally follows a square root relationship with hammer energy (i.e.  $PPV \sim \sqrt{\text{Hammer Energy}}$ ). The degree of hammer energy reduction must be balanced against the likelihood/severity of expected exceedances, increase in total driving time and ability to drive to required friction tolerances.

Reducing hammer energy can be accomplished by pre-drilling the pile. The larger the hole the less hammer energy required to drive the pile into the ground, with the PPV scaling approximately as

$\sqrt{1 - \frac{\text{hole size}}{\text{pile size}}}$ . At the closest receivers near NB 977+70 where the predicted vibration levels approach

1.52 in/s PPV, pre-drilling the pile with a hole that is 75% (90%) the size of the pile will reduce the vibration at that location to 0.76 (0.48) in/s PPV. The above assumes the entire pile length is pre-drilled. If only a portion of the pile length is pre-drilled the vibration reduction will be less. For example, near NB 977+70 pre-drilling the first 25 (35) feet will increase the distance between the pile toe and receiver which would result in vibration levels going from 1.52 in/s PPV to 0.90 (0.67) in/s PPV. The above estimated vibration levels are maximum amounts, as the pile toe deepens the PPV at the receiver is

\* D.M. Hiller and G.I. Crabb, "Groundborne Vibration Caused by Mechanised Construction Works," Transport Research Laboratory Report No. 429 (2000)



reduced. It is also noted that receivers closest to the vibration source (i.e. the pile driver) benefit the most from pre-drilling due to larger *relative* changes in the source-to-receiver distance as the pile deepens.

It is recommended that if pre-drilling is considered a test be conducted to determine the surface vibration levels generated under several pre-drill depths. This may be accomplished with the actual equipment intended for the work, albeit the test would need to be conducted at smaller input energies or at a location distant to sensitive receivers. An alternative would be a drill rig used in standard borehole testing (e.g. cone penetration test) for geologic surveys, with the impacts from a borehole rig having substantially lower energies than for impact pile driving. Impact forces can be measured in the borehole test and may be scaled and related to the energies of the actual impact pile driver, if they can be estimated.

**Bored Piles:** Where FTA damage criteria is estimated to be exceeded, the use of bored piling methods can reduce vibration levels as compared to impact methods. This method is different than pre-drilling an impact pile.

Receivers near NB 977+70 are in close proximity to the outrigger bent that will span Capitol Expressway. At this location construction noise levels from traditional impact pile driving may reach 97 dBA and construction vibration levels may reach 1.52 in/s PPV.

Noise emission levels from bored piling methods are approximately 10 to 15 dB lower and PPV levels may be greater than 15 times lower than those due to traditional impact piling. Bored piling methods include auger displacement, cast-in drilled-hole (CIDH) and continuous flight auger (CFA) piling. The use of these methods will eliminate the vibration impacts at all receivers. These methods will also substantially reduce the noise impacts and in most cases these impacts will also be eliminated. At the closest receivers (those within 75 feet of equipment) a sound wall of reasonable height (at minimum breaking line of sight between major noise source and receiver) will be effective in reducing the noise levels to below impact criteria. This is due to the piling equipment such as diesel engines, concrete pumps and the auger all of which have lower source levels and are considerably closer to the ground than impact piling noise sources.

**WIB:** Wave impedance barriers (WIB) have shown to provide some measure of vibration reduction, however performance degrades as the distance between the sensitive receiver and the WIB increases. A WIB is either a massive block placed on top of the ground (to impede surface waves) or an embedded barrier of high impedance contrast to the surrounding soil that acts similar to a sound wall (to impede both surface and body waves). A WIB placed directly on top of the ground would not provide control to an ever-deepening pile. Designing a suitable WIB as a temporary control measure would likely be an infeasible option given the cost and questionable performance such a measure is likely to have.

## 7.5 Community Outreach

Education of the affected community should involve communication of the following basic facts either during individual or community meetings. Such meetings are obviously more effective if they are held prior to the start of piling activities.

1. Cracks are caused by a variety of construction defects.
2. Homes contain numerous cracks (of which the owner is unaware) that increase in number and size each year without construction vibration. Vibration that is perceived to be detrimental to a homeowner's property can cause them to inspect their home more carefully causing them to find cracks they believe are new, yet pre-date the construction activities.
3. These cracks are predominately cosmetic and are not structurally harmful.
4. Slamming doors and passing traffic may vibrate homes more than do pile driving.
5. Human beings are far more sensitive to noise and vibration than are structures.



This information is most easily transmitted through well publicized community meeting and should be followed by several residential crack surveys. Homes that are estimated to exceed the FTA construction vibration criteria of 0.2 in/s should have a before and after crack inspection survey conducted by a qualified technician.

## **7.6 Additional Nighttime Construction**

In addition to the daytime pile driving activities there may be construction work necessary during nighttime and early morning hours in order to minimize traffic disruption along Capitol Expressway. This work may consist of the following activities,

- Partial or complete closures of the major intersections along Capitol Expressway for the erection of falsework, pre-fabricated steel spans and other major lift work.
- Roadway striping, testing of equipment and trenching for underground utilities.

Equipment used for these activities may include: cranes, concrete trucks, concrete pumps, concrete saws, pavement grinders, backhoes, flatbed trucks, pick-up trucks, trenchers, compressors and pneumatic tools. These activities would be considered as a significant impact to local residences based on the City of San José Municipal Code as discussed in Section 3.1, and would require a Development Permit from the City of San José for work occurring before 7:00 AM or after 7:00 PM, Monday through Friday, or at any time on weekends. The FTA construction noise limit for nighttime work is 70 Leq (8-hr), dBA.

### **7.6.1 Nighttime Construction Noise**

Noise levels generated by the nighttime work were estimated using CadnaA as before, yet in this case only the expected distance to the FTA criteria is estimated, not the levels at each individual receivers as in the pile driving noise predictions. This is because the specific means and methods for construction of these activities is not fully known. To perform the estimation a representative set of equipment was chosen, with general usage factors (percent time equipment is operating at full power) obtained from the Federal Highway Administration's (FHWA) Roadway Construction Noise Model (RCNM) User Guide. Issues such as back-up alarms and slamming of tailgates is not accounted for in the noise model.

Figure 14 shows the estimated 70 Leq (8-hr), dBA criteria contour for both unmitigated and mitigated cases. All receivers within the contour would signify a noise exceedance. The mitigation is in the form of a 10-foot high temporary movable sound wall that encloses the work area. The results in Figure 14 also assume all the noise generating equipment is near the ground (no higher than 6-feet off the ground) and as such the 10-foot temporary sound wall is effective at reducing the noise to below threshold levels at most receivers. With no temporary sound wall almost all first-row receivers would exceed that criteria, as the unmitigated contour extends out to approximately 250 feet, unobstructed. With a 10-foot temporary sound wall the criteria contours extends out to approximately 100 feet, potentially impacting about half of the receivers. However, many of the receivers within 100 feet of the alignment have an existing 8-foot sound wall. For receivers protected by this existing sound wall as well as the use of the 10-foot temporary construction noise wall, levels will be below the nighttime criteria level. One area of concern are receivers between Westboro Road and Capitol Expressway (NB 970+90 to NB 977+70) where homes may be between 40 feet and 70 feet from construction work sites. These close receiver can be protected by increasing the temporary construction noise wall height from 10 feet to 14 feet.

Some of the work may take place off the ground, though typically much of this work will not generate significantly high noise levels. The location of the dominate noise source for much of the equipment for



the elevated work usually is nearer the ground (generators, compressors, diesel engines etc.) and therefore protected by noise walls.

A survey by state DOTs found that the primary causes of nighttime construction noise issues were related to back-up alarms (41%), slamming tailgates (27%), hoe rams (24%), milling/grinding (16%), earthmoving equipment (14%) and crushers (6%).

In addition to the contractor controls specified in Section 7.3 the following are recommended to reduce and control the noise levels for nighttime work:

- To the extent possible use modern equipment, which has better engine insulation and mufflers.
- Only operate equipment at power levels needed for the work and avoid unnecessary idling of construction equipment near residences.
- Use noise walls that at minimum break line of site between noise sources and receivers. Ensure all gaps in noise walls are completely sealed.
- If available use broadband, low-noise or automatic “smart” back-up alarms. Smart alarms can continuously adjust to 5 dB above ambient (<https://brigade-electronics.com/>). The use of spotters may be permissible in lieu of back-up alarms.
- Use dump trucks lined with a sound deadening material.
- Hire or retain the services of an acoustical engineering to be responsible for preparing and overseeing the implementation of a noise control and monitoring plan.
- Conduct periodic measurements in accordance with an approved noise monitoring plan specifying monitoring locations, equipment, procedures, and schedule of measurements and reporting methods to be used.

Since it is not anticipated that heavy machinery will be used within 25 feet of any receiver for the nighttime work, groundborne vibrations will not exceed FTA construction vibration criteria.



**Figure 14: FTA Nighttime Construction Noise Criteria Contours for Unmitigated and Mitigated (10-foot Noise Wall) Cases.**





## **8. CONCLUSIONS**

A noise and vibration assessment has been conducted to update the 2007 Supplemental EIR and the 2012 Supplemental Draft EIS for the Capitol Expressway Light Rail Project. The assessment has analyzed the possibility for noise and vibration impacts due to the light rail operations and due to the impact pile driving required for the construction of the aerial guideway.

The analysis has indicated that unmitigated noise for year 2043 (2017) light rail operations would cause 78 (96) moderate and 23 (59) severe FTA impacts. With an aerial guideway sound wall and an OGAC layer on Capitol Expressway as noise control measures, all 2017 and 2043 noise impacts are removed. All year 2043 impacts are due the expected increase in road traffic noise along Capitol Expressway.

The analysis has indicated that vibration from light rail operations would exceed FTA detailed vibration criteria for nighttime at 73 residential receivers in the project area, with nighttime hours being 10 PM to 7 AM. It is noted that the peak nighttime hour of 6 AM to 7 AM is of particular concern since the train headways are at their shortest duration and the trains consist of three cars. As previously discussed, vibration predictions are made on the assumption of a 3-car consist and reduced vibration levels are possible for those nighttime hours running 2- and 1-car consist.

Vibrations levels in the 10 Hz 1/3-octave band have been identified as the primary offending frequency causing the exceedances, with exceedance occurring in the 20 Hz to 31.5 Hz range for receivers near the ballasted transition embankment. The use of tire derived aggregate as an embankment underlayment removes the 20 Hz to 31.5 Hz impacts, however these receivers still have an exceedance in the 10 Hz band. The use of a floating slab track or bridge bearing design to isolate the trackbed could remove all vibration impacts. However, the use of either floating slab track or isolation bearings for the aerial guideway vibration mitigation would require extensive additional analysis as there are only a few of these systems in operation without substantial reporting of in-service performance available, as described in Section 6.2.

It is recommended that supplemental LSR and FDL measurements be conducted to confirm local propagation characteristics and assess the influence of low frequency traffic vibrations occurring in the 10 Hz region. If nighttime vibration impacts still remain, it is recommended that trains run at a reduced speed. Trains running at 35 mph would remove all vibration impacts.

Pile driving would generate substantial noise and vibration levels. The noise would potentially impact unobstructed homes within 300 ft of the pile driving activity for piles driven 6 hours out of an 8-hour work day. Vibration would impact residences within 100 ft of the pile driving activity. Noise and vibration control measures include scheduling and coordination with the public, pre-construction crack surveys and vibration monitoring is recommended for buildings close to pile driving activity, as discussed above. Impact cushions and noise shields should be considered as well as reducing impact hammer energies by pre-drilling piles or using bored method for the piles at the closest receivers.

Additional construction work may occur at night. The use of a suitable movable noise wall as well as existing sound walls will protect most receivers from criteria exceeding noise levels. Close receivers in the vicinity of NB 970+90 to NB 977+70 may need a higher noise wall or supplemental enclosures of specific high noise generating tasks/equipment. Vibration due to these activities will not exceed criteria.



## **APPENDIX A: NOISE AND VIBRATION BASICS**

### **A.1 Noise Fundamentals**

Sound is mechanical energy transmitted by pressure waves in a compressible medium such as air. Typically, noise is defined as unwanted or excessive sound. Sound can vary in intensity by over one million times within the range of human hearing. Therefore, a logarithmic scale, known as the decibel scale (dB), is used to quantify sound intensity and compress the scale to a more convenient range. In addition, human response to sound is better correlated to decibels than to linear measures of sound intensity.

Sound is characterized by both its amplitude and frequency (or pitch). The human ear does not hear all frequencies equally. In particular, the ear deemphasizes low and very high frequencies. The A-weighted decibel scale (dBA) better approximates the sensitivity of human hearing. On this scale, the human range of hearing extends from approximately 3 dBA to around 140 dBA. As a point of reference, Figure A-1 includes examples of A-weighted sound levels from common indoor and outdoor sounds.

Using the decibel scale, sound levels from two or more sources cannot be directly added together to determine the overall sound level. Rather, the combination of two sounds at the same level yields an increase of 3 dB. The smallest recognizable change in sound level is approximately 1 dB. A 3 dB increase in the A-weighted sound level is considered generally perceptible, whereas a 5 dB increase is readily perceptible. A 10 dB increase is judged by most people as an approximate doubling of the perceived loudness.

The two primary factors that reduce levels of environmental sounds are (1) increasing the distance between the sound source and the receiver and (2) having intervening obstacles such as walls, buildings or terrain features that block the direct path between the sound source and the receiver. Factors that act to make environmental sounds louder include moving the sound source closer to the receiver, sound enhancements caused by reflections and focusing caused by various meteorological conditions.

Following are brief definitions of the measures of environmental noise used in this report:

**Maximum Sound Level (L<sub>max</sub>):** L<sub>max</sub> is the maximum sound level that occurs during an event such as a train passing. For this analysis, L<sub>max</sub> is defined as the maximum sound level using the slow setting on a standard sound level meter.

**Equivalent Sound Level (Leq):** Environment sound fluctuates constantly. The equivalent sound level (Leq) is the most common means of characterizing community noise. Leq represents a constant sound that, over a specified period, has the same sound energy as the time-varying sound. Leq is used by FTA and FRA to evaluate noise impacts at institutional land uses, such as schools, churches and libraries, from proposed transit projects.

**Day-Night Sound Level (L<sub>dn</sub>):** L<sub>dn</sub> is a 24-hour Leq with an adjustment to reflect the greater sensitivity of most people to nighttime noise. The adjustment is a 10 dB penalty for all sound that occurs between the hours of 10 p.m. to 7 a.m. The effect of the penalty is that, when calculating L<sub>dn</sub>, any event that occurs during the nighttime is equivalent to ten occurrences of the same event during the daytime. L<sub>dn</sub> is the most common measure of total community noise over a 24-hour period and is used by FTA to evaluate residential noise impacts from proposed transit projects.

**L<sub>xx</sub>:** This is the percentage of time a sound level is exceeded during the measurement period. For example, the L<sub>99</sub> is the sound level exceeded 99 percent of the measurement period. For a 1-hour period, L<sub>99</sub> is the sound level exceeded for all except 36 seconds of the hour. L<sub>1</sub> represents typical maximum

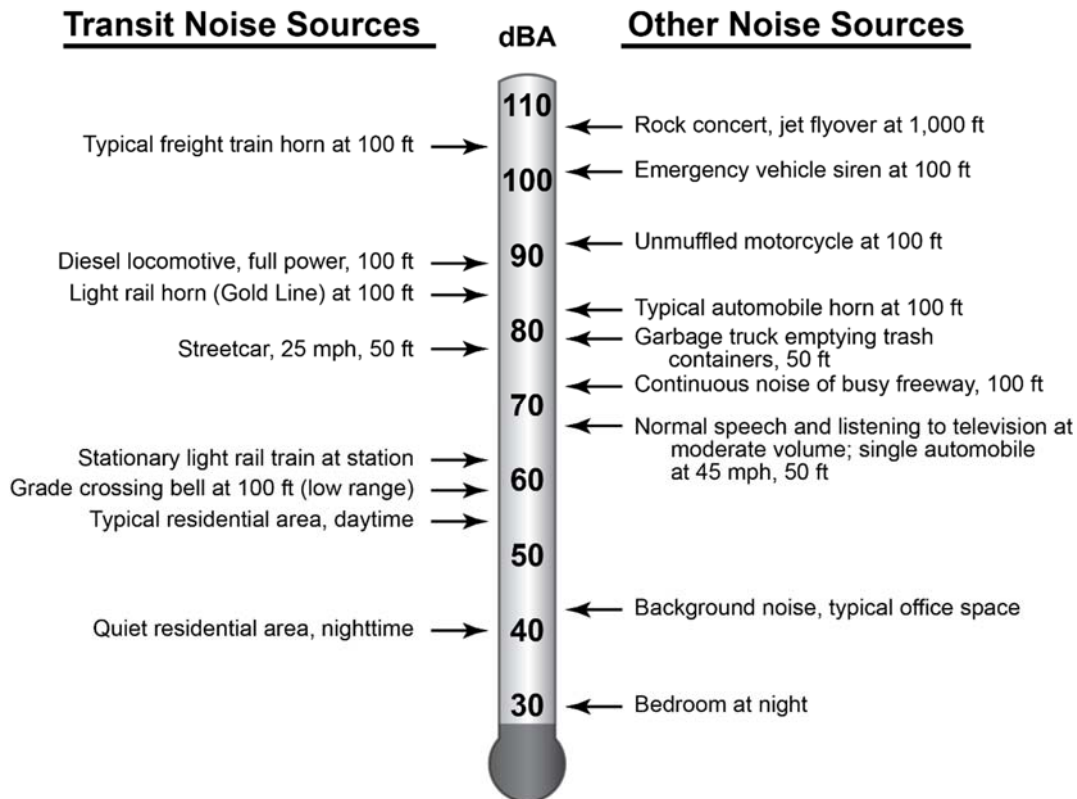


sound levels, L33 is approximately equal to Leq when free-flowing traffic is the dominant noise source, L50 is the median sound level and L99 is close to the minimum sound level.

**Sound Exposure Level (SEL):** SEL is a measure of the acoustic energy of an event such as a train passing. In essence, the acoustic energy of the event is compressed into a 1-second period. SEL increases as the sound level of the event increases and as the duration of the event increases. It is often used as an intermediate value in calculating overall metrics such as Leq and Ldn.

**Sound Transmission Class (STC):** STC ratings are used to compare the sound insulating effectiveness of different types of noise barriers, including windows, walls, etc. Although the amount of attenuation varies with frequency, the STC rating provides a rough estimate of the transmission loss from a particular window or wall.

**FIGURE A-15: SOUND LEVELS FROM COMMON SOURCES**





## A.2 Vibration Fundamentals

One potential impact to buildings is vibration that is transmitted from the tracks through the ground to the adjacent buildings. This is referred to as groundborne vibration. When evaluating human response, groundborne vibration is expressed in terms of decibels using the root mean square (RMS) vibration velocity. RMS is defined as the average of the squared amplitude of the vibration signal. To avoid confusion with sound decibels, the abbreviation VdB is used for vibration decibels. All vibration decibels in this report use a decibel reference of 1 micro-inch/second ( $\mu\text{in}/\text{sec}$ ).\*

The potential adverse impacts of rail transit groundborne vibration are as follows:

**Perceptible Building Vibration:** The vibration of the floor or other building surfaces that the occupants feel. Experience shows that the threshold of human perception is around 65 VdB and that vibration that exceeds 75 to 80 VdB is perceived as intrusive and annoying to occupants.

**Rattle:** The building vibration can cause rattling of items on shelves and hangings on walls, and various rattle and buzzing noises from windows and doors.

**Reradiated Noise:** The vibration of room surfaces radiates sound waves that are audible to humans (groundborne noise). Groundborne noise sounds like a low-frequency rumble. Usually, for a surface rail system the groundborne noise is masked by the normal airborne noise radiated from the transit vehicle and the rails.

**Damage to Building Structures:** Although it is conceivable that vibration from a light rail system can damage fragile buildings, the vibration from rail transit systems is one to two orders of magnitude below the most restrictive thresholds for preventing building damage. Hence the vibration impact criteria focus on human annoyance, which occurs at much lower amplitudes than does building damage.

Vibration is an oscillatory motion that is described in terms of the displacement, velocity or acceleration of the motion. The response of humans to vibration is very complex. However, the general consensus is that for the vibration frequencies generated by rail trains, human response is best approximated by the vibration velocity level. Therefore, this study uses vibration velocity to describe light rail-generated vibration levels.

Figure A-15 shows typical vibration levels from rail and non-rail sources as well as the human and structure response to such levels.

Although there is relatively little research into human and building response to groundborne vibration, there is substantial experience with vibration from rail systems. In general, the collective experience indicates that:

It is rare that groundborne vibration from rail systems results in building damage (even minor cosmetic damage). Therefore, the primary consideration is whether or not the vibration is intrusive to building occupants or interferes with interior activities or machinery.

The threshold for human perception is approximately 65 VdB. Vibration levels in the range of 70 to 75 VdB often are noticeable but acceptable. Beyond 80 VdB, vibration levels are often considered unacceptable.

For human annoyance, there is a relationship between the number of daily events and the degree of annoyance caused by groundborne vibration. The FTA Guidance Manual includes an 8 VdB higher

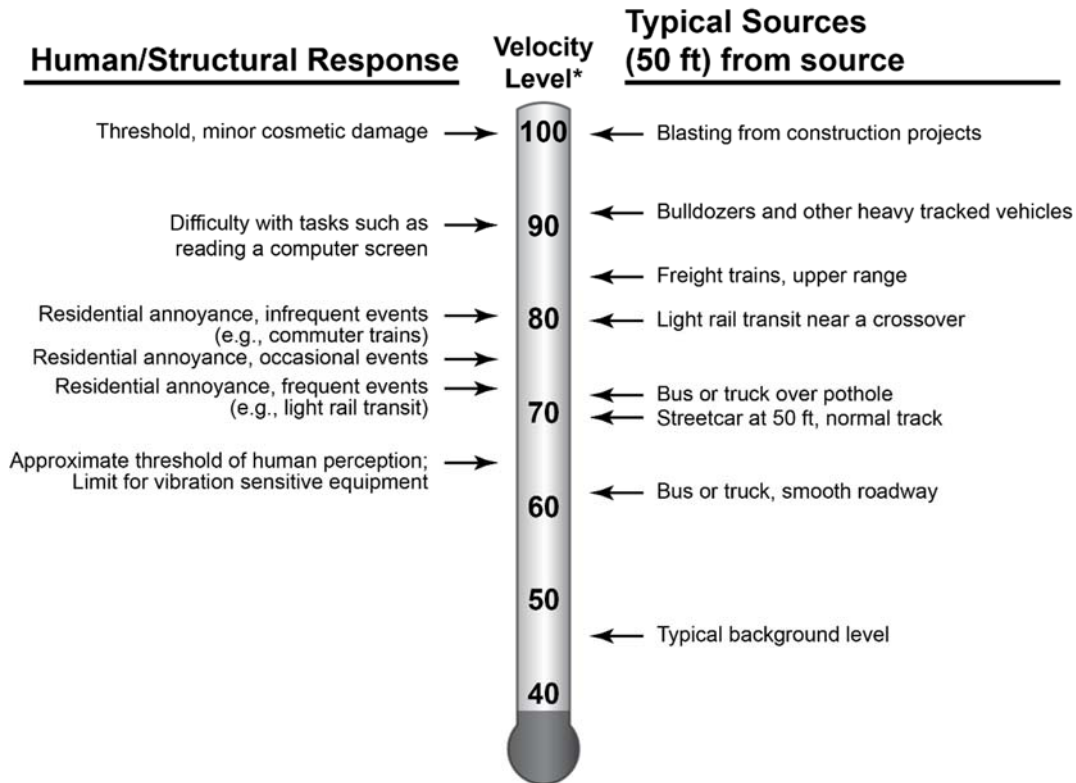
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\* One  $\mu\text{in}/\text{sec} = 10^{-6}$  in/sec



impact threshold if there are fewer than 30 events per day and a 3 VdB higher threshold if there are fewer than 70 events per day.

**FIGURE A-16: VIBRATION LEVELS FROM COMMON SOURCES**



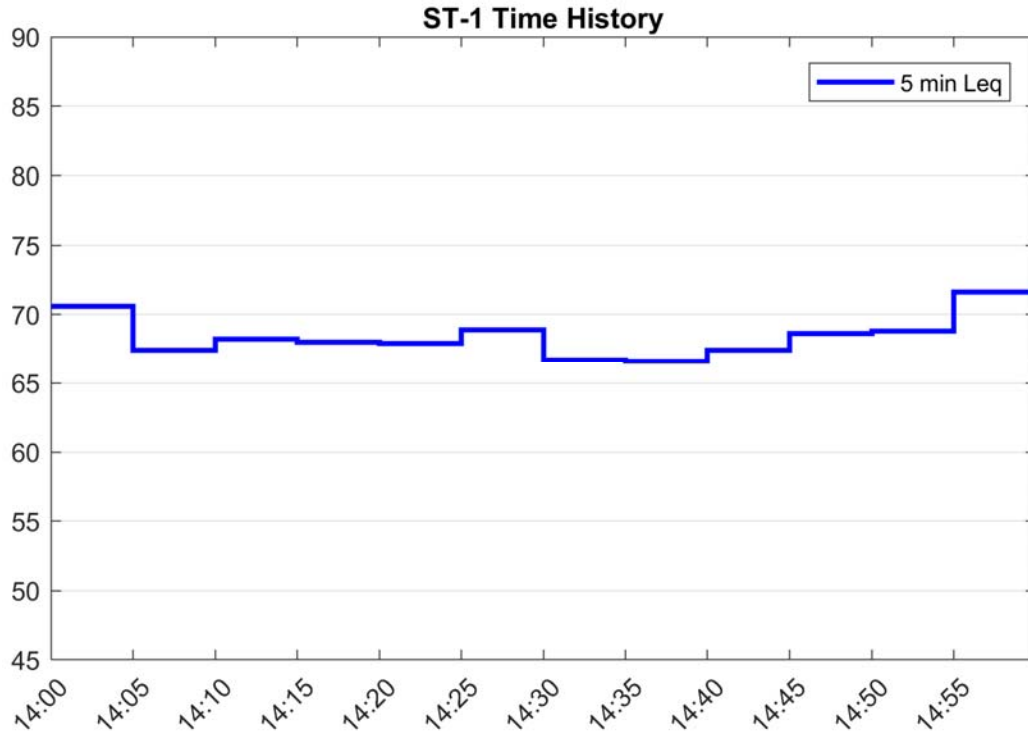
*RMS Vibration Velocity Level in VdB using a decibel reference of 10<sup>-6</sup> inches/second*

Often it is necessary to determine the contribution at different frequencies when evaluating vibration or noise signals. The 1/3-octave band spectrum is the most common procedure used to evaluate frequency components of acoustic and vibration signals. The term *octave* is borrowed from music, where it refers to a span of eight notes. The ratio of the highest frequency to the lowest frequency in an octave is 2:1. For a 1/3-octave band spectrum, each octave is divided into three bands, where the ratio of the lowest frequency to the highest frequency in each 1/3-octave band is 2<sup>1/3</sup>:1 (1.26:1). An octave consists of three 1/3 octaves.

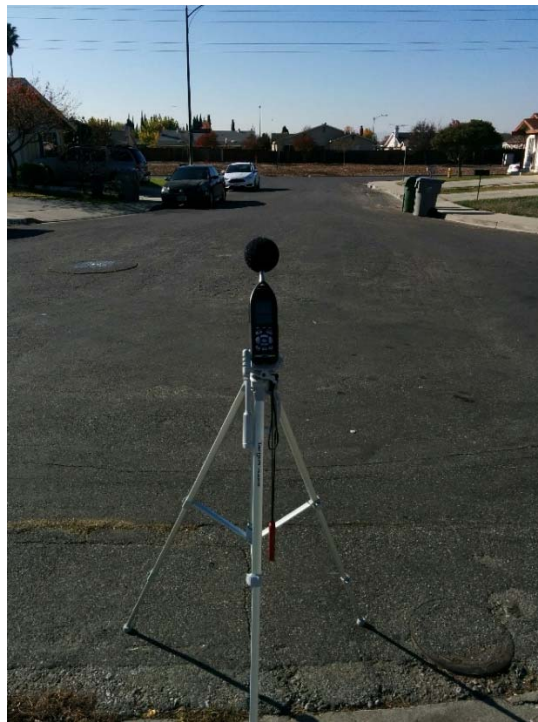
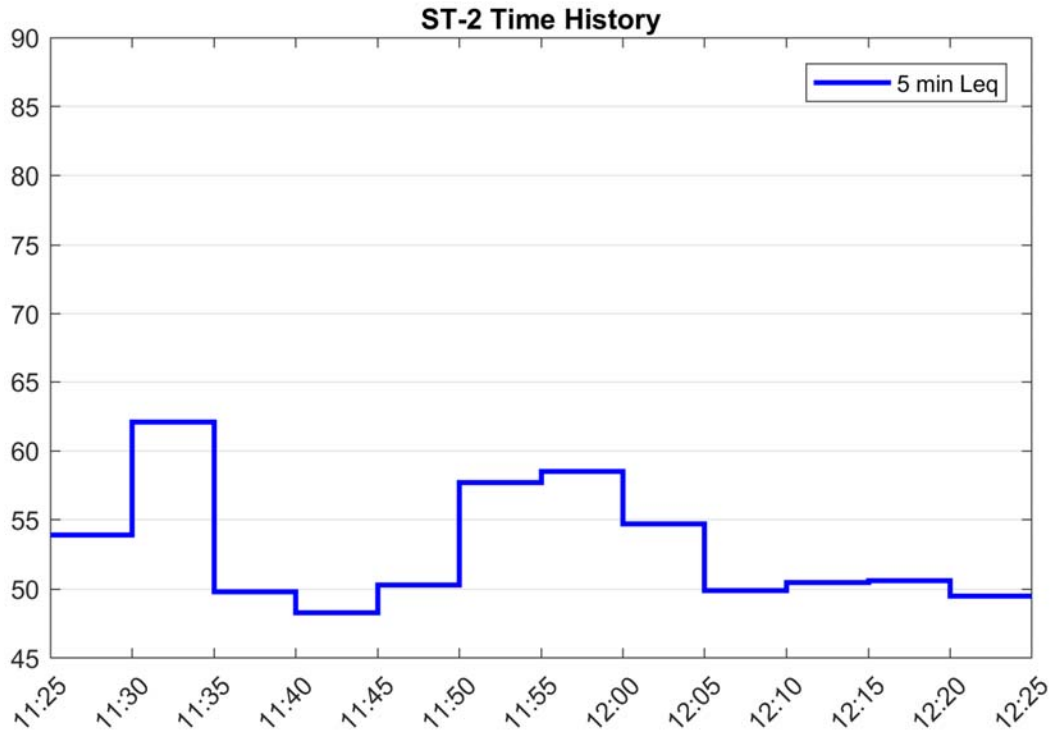
The 1/3-octave band spectrum of a signal is obtained by passing the signal through a bank of filters. Each filter excludes all components except those that are between the upper and lower range of one 1/3-octave band.



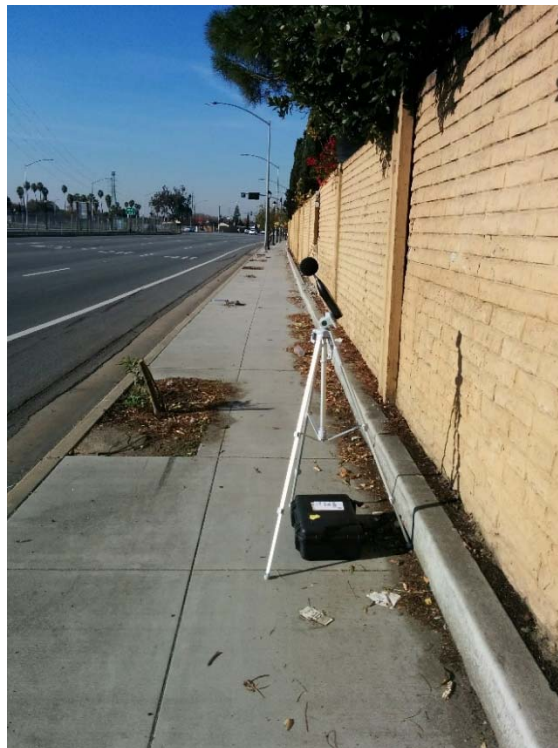
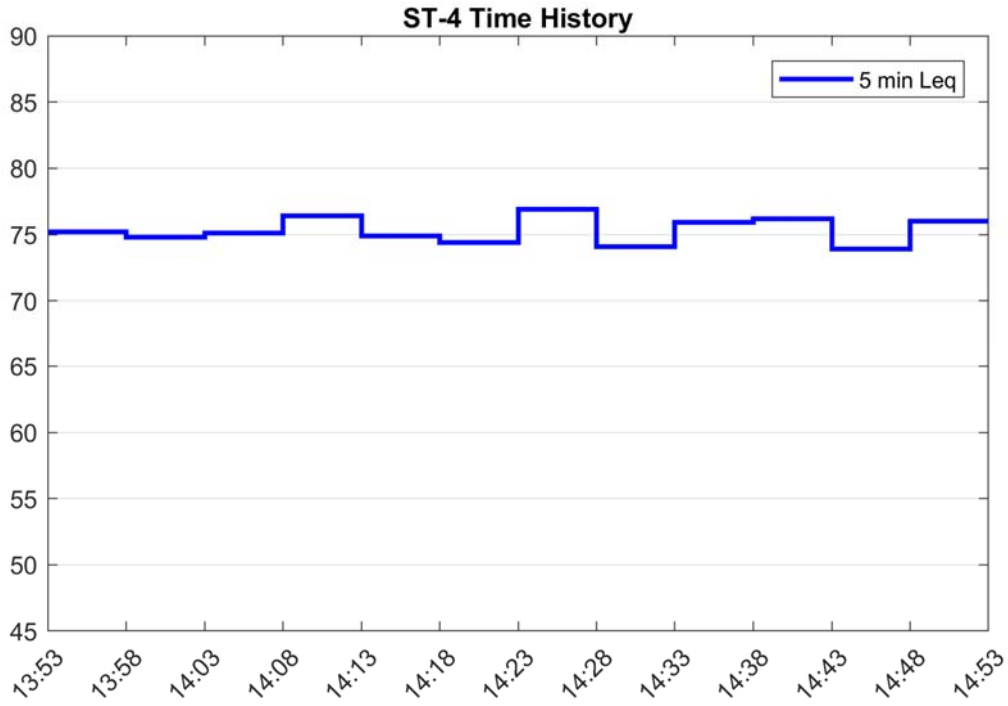
## APPENDIX B: MEASURED NOISE LEVELS



**Figure B-17: ST-1, 1624 S. Capitol Avenue**

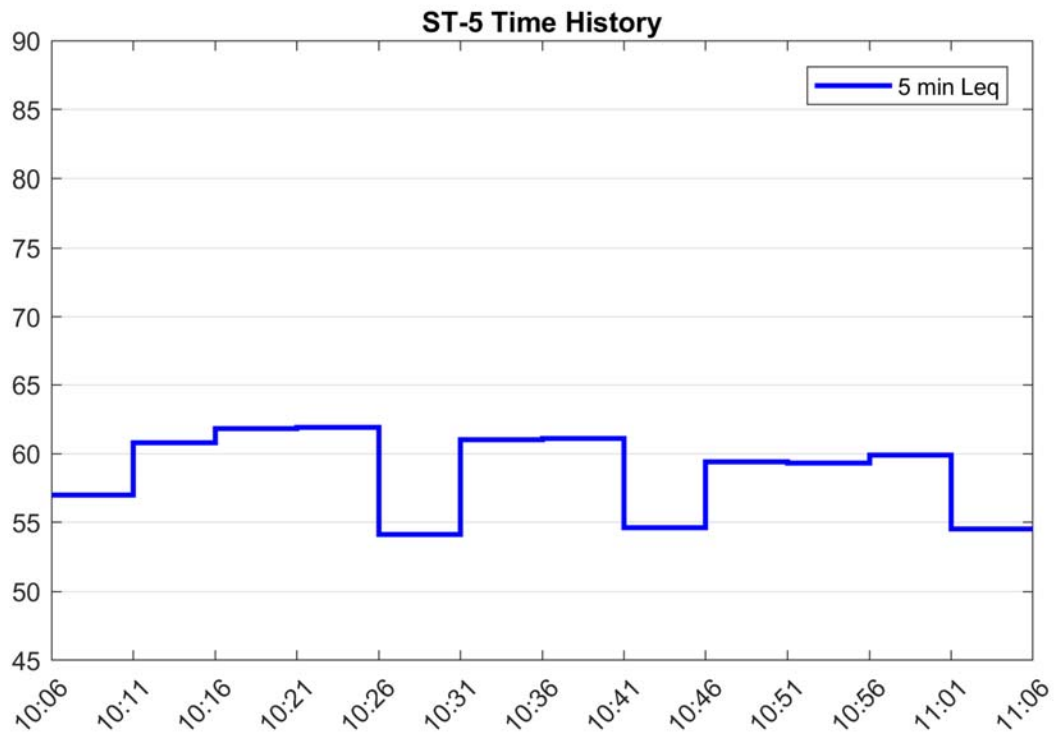


**Figure B-18: ST-2, 2517 Brownstone Place**

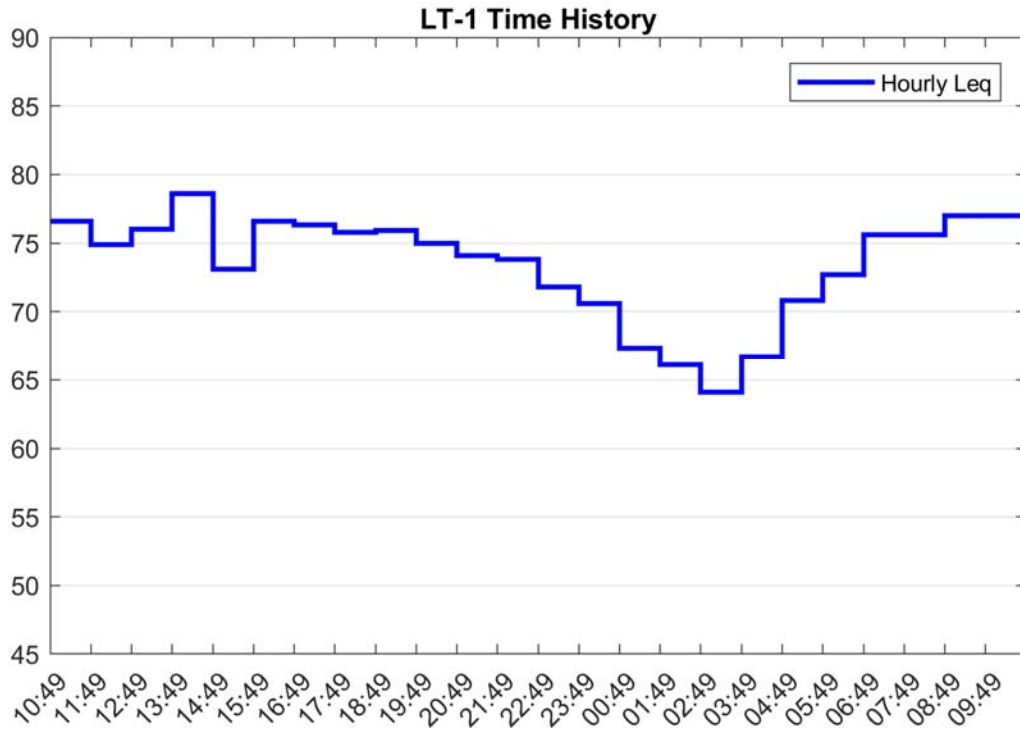


**Figure B-19: ST-4, Capitol Expressway, behind 2001 Supreme Drive**





**Figure B-20: ST-5, 1698 Silverstone Place**



**Figure B-21: LT-1, Corner of Foxdale Drive and Capitol Expressway**



## APPENDIX C: LINE SOURCE RESPONSE COEFFICIENTS

Table 15: Average LSR Used in Current Analysis

Frequency	A	B	C
6.3	25.8	7.8	-5.7
8	41.3	-5.7	-1.6
10	36.5	3.5	-4.1
12.5	18.9	27.3	-11.1
16	12.3	39.4	-15.2
20	6.9	48.4	-18.2
25	-0.5	59.3	-22.0
31.5	4.7	56.7	-22.8
40	39.4	18.7	-13.4
50	-0.7	59.0	-24.6
63	-11.0	80.4	-34.2
80	83.6	-24.8	-7.4
100	115.9	-73.3	7.4
125	114.0	-75.0	8.1
160	105.4	-83.1	13.5

$LSR = A + B * \text{Log}(d) + C * (\text{Log}(d))^2$ , d = distance in feet

---

# **Attachment F**

## **Air Quality Modeling Assumptions**

# Construction Data - Air Quality & GHG Emissions Analysis

## How to Combine Equipment Numbers to Estimate AQ Emissions

1. Aerial Guideway Construction will proceed simultaneously at 2 Locations; e.g. north and south segments

2. At each location, work can proceed on 2 frames; substructure construction on one frame and superstructure construction on another frame

3. Sub-Phases: Only one subphase can occur within a frame at a time. Since each subphase has different pieces of equipment operating different number of hours per day, it is necessary to calculate the total horsepower/emissions for each subphase to determine the worst one for use in the estimate of total emissions. The color highlighting shows which pieces of equipment could be operating simultaneously during any one hour of the day.

4. Group A and Group B Subphases: the subphases are categorized as Group A or Group B. The most equipment intensive work occurs when concrete pours occur. It is assumed that only one concrete pour will occur on a single day, therefore, the combination of subphases should include only one Group B - Concrete Pour subphase.

5. Summary: a total of 4 sub-phases can occur simultaneously, e.g. one subphase for each of 2 frames at each of 2 locations. Only one of the 4 subphases can be a Group B subphase.

### Frame 1: Guideway Substructure Construction

#### Equipment used by one crew

##### Group A

Sub-Phase	Equipment Type/Fuel	Number	Horsepower	Hours/day	
Excavation	Excavators (Diesel)	1	162	8	Tier 4
	Tractors/Loaders/Backhoes (Diesel)	1	97	8	Tier 4
	Dump Trucks (Diesel)	1	400	6	
	Trucks: Hauling tools, materials, equipment (Diesel)	1	150	4	
Total Pieces of Equip.		4			

Pile Installation	Cranes (Diesel)	1	226	4	
	Pile Driver Power Unit (Diesel)	1	375	8	
	Trucks: Hauling tools, materials, equipment (Diesel)	1	150	4	
Total Pieces of Equip.		3			

##### Group B - Concrete Pours

Concrete Footing Construction	Aerial Lifts (Diesel or Gas)	1	62	3	Tier 4
	Concrete Mixer Trucks (Diesel)	2	380	4	
	Concrete Trailer Pump - on road	1	56	2	
	Concrete Trailer Pump - off road	1	98	4	Tier 4
	Trucks: Hauling tools, materials, equipment (Diesel)	1	150	4	Tier 4
Total Pieces of Equip.		6			

Concrete Bent Construction	Cranes (Diesel)	0	226	0	
	Aerial Lifts (Diesel or Gas)	1	62	3	Tier 4
	Concrete Mixer Trucks (Diesel)	2	380	6	
	Truck-Mounted Concrete Boom Pump - truck on Road (Diesel) (NOT SIMULTANEOUS WITH BOOM PUMP IN OPERATION)	1	465	2	
	Truck-Mounted Concrete Boom Pump - Pump in operation (Diesel) (NOT SIMULTANEOUS WITH BOOM PUMP ON ROAD)	1	365	6	
	Trucks: Hauling tools, materials, equipment (Diesel)	1	150	4	
Total Pieces of Equip.		6			

### Frame 2A: Guideway Superstructure Construction: Cast-in-Place Superstructure

#### Equipment used by one crew

##### Group A

Falsework Erection and Formwork Installation	Cranes (Diesel)	1	226	4	
	Trucks: Hauling tools, materials, equipment (Diesel)	1	150	4	
	Generator Sets (Diesel or Gas)	1	84	8	Tier 4
	Welders (power from generator)	1	46	4	Tier 4
	Other Material Handling Equipment (Diesel or Gas)	1	167	4	Tier 4
Total Pieces of Equip.		5			

##### Group B - Concrete Pours

Concrete Superstructure Construction	Cranes (Diesel)	0	226	0	
	Trucks: Hauling tools, materials, equipment (Diesel)	1	150	4	
	Concrete Mixer Trucks (Diesel)	2	380	6	
	Truck-Mounted Concrete Boom Pump - truck on Road (Diesel) (NOT SIMULTANEOUS WITH BOOM PUMP IN OPERATION)	1	465	2	

	Truck-Mounted Concrete Boom Pump -Pump in operation (Diesel) (NOT SIMULTANEOUS WITH BOOM PUMP ON ROAD)	1	365	6	
	Aerial Lifts (Diesel or Gas)	1	62	4	Tier 4
	Air Compressors (Gas or Electric)	1	78	4	Tier 4
	Generator Sets (Diesel or Gas)	1	84	8	Tier 4
	Other Material Handling Equipment (Diesel or Gas)	1	167	4	Tier 4
	Welders (power from generator)	1	46	4	Tier 4

Total Pieces of Equip. 10

**Frame 2B: Guideway Superstructure Construction: Precast Girder Superstructure**  
**Equipment used by one crew**

**Group A**

Girder Erection	Cranes (350 Ton) (Diesel)	2	275	2	
	Trucks: Hauling tools, materials, equipment (Diesel)	1	150	4	
	Other Material Handling Equipment (Diesel or Gas)	1	167	4	Tier 4

Total Pieces of Equip. 4

**Group B - Concrete Pours**

Concrete Deck Placement	Cranes (Diesel)	0	226	0	
	Trucks: Hauling tools, materials, equipment (Diesel)	1	150	4	
	Concrete Mixer Trucks (Diesel)	2	380	6	
	Truck-Mounted Concrete Boom Pump - truck on Road (Diesel) (NOT SIMULTANEOUS WITH BOOM PUMP IN OPERATION)	1	465	2	
	Truck-Mounted Concrete Boom Pump -Pump in operation (Diesel) (NOT SIMULTANEOUS WITH BOOM PUMP ON ROAD)	1	365	6	
	Aerial Lifts (Diesel or Gas)	1	62	4	Tier 4
	Air Compressors (Gas or Electric)	1	78	4	Tier 4
	Generator Sets (Diesel or Gas)	1	84	8	Tier 4
	Other Material Handling Equipment (Diesel or Gas)	1	167	4	Tier 4
	Welders (power from generator)	1	46	4	Tier 4

Total Pieces of Equip. 9

· If possible, please provide the estimated quantity of exported and imported soil/material for each construction phase shown in the table above, as applicable (in units of cubic yards)

- 18 cubic yards soil imported per day (Guideway Substructure Construction)
- 20 cubic yards soil exported per day (Guideway Substructure Construction)

· Please provide the number of daily and total haul truck trips for each construction phase in which hauling would occur. This includes materials delivery, materials removal (i.e. removal of demolished material), and soil hauling. What is the maximum haul truck distance (miles)?

- Less than 1 truck trip per day to import soil (Guideway Substructure Construction)
- Less than 1 truck trip per day to exported soil (Guideway Substructure Construction)
- Less than 1 truck trip per day to deliver material (Guideway Superstructure Construction)
- Less than 1 truck trip per day to deliver material (Guideway Superstructure Construction)

· Please provide the average daily number of construction workers for each construction phase shown in the table above. Would there be carpool or shuttle service for construction workers? It will be assumed each worker will make two trips to the construction site per day.

- Guideway Substructure Construction: 12 workers/day (assumes 1 crews working simultaneously as previous project)
- Guideway Superstructure Construction: 10 workers/day (assumes 1 crews working simultaneously as previous project)



# Guideway Construction - Assumptions for Calculation of Annual Emissions

## Daily Emissions:

- There can only be 1 concrete phase occurring at any given time.
- Worst-case daily emissions are 1 Group B Activity (i.e. concrete pouring) and the three highest emitting phases from Group A Activities.

## Annual Emissions:

- 150 days of 4 Group A activities only
- 100 days of 3 Group A activities and 1 Group B activity, e.g. the worst case days
- Ratio of 150:100 days was applied to each calendar year in which construction would occur, as shown in the table below

---

Start date	End date	# of Days	Days with Group A	Days with Group A/Group B
5/6/2020	12/31/2020	132	79	53
1/1/2021	12/31/2021	261	157	104
1/1/2022	4/26/2022	82	49	33

---

## Equipment Usage for AQ Analysis - Non-Guideway Construction Work

Year/Half	Work Items	# of Construction Workers	Equipment	HP	No. Pieces	Equipment Detail <sup>3,4</sup>	Days	Total Equipment Days
1	H1	Utilities (PG&E, etal)	24 Backhoes, other	200	4	•4 backhoes at 200 hp; •4 truck trips to/from the site per day	45	180
	H2	Utilities (PG&E, etal)	24 Backhoes, other	150 and 200	8	•4backhoes at 200 hp; 4 trucks at 150 hp •8 truck trips to/from the site per day	110	880
2	H1	Clearing, roadway widening, retaining walls at Eastridge	24 Misc. Trucks, backhoes	200	6	•6 backhoes/offhighway trucks at 200 hp; •4 truck trips to/from the site per day	90	540
	H2	Aerial Guideway +					125	
3	H1	Aerial Guideway +					125	
	H2	Aerial Guideway +					125	
4	H1	Aerial Guideway +					100	
	H2	Stations furnishings, plinths, roadway (median drainage, intersection curb work), track and systems. Eastridge Station Platform and furnishings.	24 Concrete, Misc trucks	150 - trucks, 250 off highway trucks, other equipment	10	•5 offhighway trucks at 250 hp; 5 trucks at 150hp (T4) •10 truck trips to/from the site per day	110	1,100
5	H1		24 Misc. Trucks, backhoes	150 - trucks, 250 off road trucks, other equipment	10	•5 off highway trucks at 250 hp; 5 trucks at 150hp (T4) •10 truck trips to/from the site per day	110	1,100
	H2	Systems, final paving	24 Misc. Trucks, paving	Pavers - 150 hp, offhighway trucks at 250 hp	6	•4 pavers at 150 hp;2 off road trucks at 250 hp •6 truck trips to/from the site per day	100	600
								4,400

1. Aerial guideway construction is 475 days - includes embankments, Story Station structure and POC

2. All equipment at 150hp is Tier 4 equipment

3. Off highway truck category (250hp) includes any equipment over 150 hp that cannot be Tier 4, e.g. cranes, concrete mixers

<sup>4</sup> Assuming that the number of pieces applies to off-road equipment. To be conservative, we are assuming that the same number of on-road truck trips would occur to and from the site each day. Truck trips could be concrete, water, or material delivery trucks

## **CalEEMod Output - Frame 1 (Sub-Structure Construction)**

Eastridge to BART - Frame 1: Guideway Substructure Construction - Santa Clara County, Summer

**Eastridge to BART - Frame 1: Guideway Substructure Construction  
Santa Clara County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unenclosed Parking Structure	364.32	1000sqft	8.36	364,320.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	4			<b>Operational Year</b>	2021
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity</b>	641.35	<b>CH4 Intensity</b>	0.029	<b>N2O Intensity</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use - From project description: 2.3 miles of aerial guideway...30 foot wide concrete deck structure. 2.3 miles \* 30 feet = 364,320 square feet.

Construction Phase - Input from project applicant

Off-road Equipment - Input from project applicant. Welders would be used for construction but would obtain power from generator, so adding welders would double count emissions.

Off-road Equipment - Based on data received 2018-07-11

Off-road Equipment - Based on data received 2018-07-11. Other construction equipment is representative of a pile driver.

Off-road Equipment - Based on data received 2018-07-11. 2nd Cement & Mortar mixer represents boom pump. Smaller boom pump from Concrete Footing phase will be Tier 4, but this one will not. Need different equipment name to assign different mitigation.

Off-road Equipment - Based on data received 2018-07-11

Trips and VMT - 12 workers/day for superstructure. 1 truck/day operates 4 hours/day for hauling tools, materials, equipment - assuming 2 trip/hour = 8 vendor trips/day. 6 vendor trips for concrete boom & mixer trucks. 1 haul truck/day to deliver large materials

Grading - Site acreage assumed to be 8.36, see Land Use tab. 18 cy soil imported, 20 cy soil exported per day, based on applicant response. 310 days total for substructure.



tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblTripsAndVMT	HaulingTripNumber	1,473.00	2,850.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00
tblTripsAndVMT	VendorTripNumber	60.00	8.00
tblTripsAndVMT	VendorTripNumber	60.00	11.00
tblTripsAndVMT	VendorTripNumber	60.00	11.00
tblTripsAndVMT	WorkerTripNumber	5.00	12.00
tblTripsAndVMT	WorkerTripNumber	153.00	12.00
tblTripsAndVMT	WorkerTripNumber	153.00	12.00

## 2.0 Emissions Summary

## 3.0 Construction Detail

### Construction Phase

Phase	Phase Name	Phase Type	Start Date	End Date	Num	Num Days	Phase Description
1	Group A - Excavation	Grading	7/1/2020	4/26/2022	5	475	
2	Group A - Pile Installation	Building Construction	7/1/2020	4/26/2022	5	475	
3	Group B - Concrete Footing	Building Construction	7/1/2020	4/26/2022	5	475	
4	Group B - Concrete Bent	Building Construction	7/1/2020	4/26/2022	5	475	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 8.36

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Group A - Excavation	Excavators	1	8.00	162	0.38
Group A - Excavation	Graders	0	8.00	187	0.41
Group A - Excavation	Rubber Tired Dozers	0	8.00	247	0.40
Group A - Excavation	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Group A - Pile Installation	Cranes	1	4.00	226	0.29
Group A - Pile Installation	Forklifts	0	8.00	89	0.20
Group A - Pile Installation	Generator Sets	0	8.00	84	0.74
Group A - Pile Installation	Other Construction Equipment	1	8.00	375	0.29
Group A - Pile Installation	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Group A - Pile Installation	Welders	0	8.00	46	0.45
Group B - Concrete Footing	Aerial Lifts	1	3.00	62	0.31
Group B - Concrete Bent	Cement and Mortar Mixers	1	6.00	365	0.56
Group B - Concrete Footing	Cranes	0	7.00	231	0.29
Group B - Concrete Footing	Forklifts	0	8.00	89	0.20
Group B - Concrete Footing	Generator Sets	0	8.00	84	0.74
Group B - Concrete Footing	Pumps	1	4.00	98	0.74
Group B - Concrete Footing	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Group B - Concrete Footing	Welders	0	8.00	46	0.45
Group B - Concrete Bent	Aerial Lifts	1	3.00	62	0.31
Group B - Concrete Bent	Cranes	0	8.00	226	0.29
Group B - Concrete Bent	Forklifts	0	8.00	89	0.20
Group B - Concrete Bent	Generator Sets	0	8.00	84	0.74
Group B - Concrete Bent	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Group B - Concrete Bent	Welders	0	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment	Worker Trip	Vendor Trip	Hauling	Worker Trip	Vendor Trip	Hauling Trip	Worker Vehicle	Vendor	Hauling
Group A - Excavation	2	12.00	8.00	2,850.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Group A - Pile	2	12.00	8.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Group B - Concrete	2	12.00	11.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Group B - Concrete	2	12.00	11.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

**3.2 Group A - Excavation - 2020  
Unmitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
lb/day											lb/day					
Fugitive Dust					0.0215	0.0000	0.0215	2.4400e-	0.0000	2.4400e-			0.0000			0.0000
Off-Road	0.4607	4.5789	5.6302	8.4000e-		0.2529	0.2529		0.2327	0.2327		813.5482	813.5482	0.2631		820.1261

<b>Total</b>	<b>0.4607</b>	<b>4.5789</b>	<b>5.6302</b>	<b>8.4000e-</b>	<b>0.0215</b>	<b>0.2529</b>	<b>0.2744</b>	<b>2.4400e-</b>	<b>0.2327</b>	<b>0.2352</b>		<b>813.5482</b>	<b>813.5482</b>	<b>0.2631</b>		<b>820.1261</b>
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**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0493	1.7062	0.3455	4.7600e-	0.3110	5.6200e-	0.3166	0.0793	5.3800e-	0.0847		508.0619	508.0619	0.0226		508.6272
Vendor	0.0311	0.8996	0.2278	2.2000e-	0.0542	4.4800e-	0.0586	0.0156	4.2900e-	0.0199		233.0391	233.0391	0.0102		233.2947
Worker	0.0417	0.0256	0.3300	9.7000e-	0.0986	6.1000e-	0.0992	0.0262	5.7000e-	0.0267		96.7208	96.7208	2.3700e-		96.7799
<b>Total</b>	<b>0.1221</b>	<b>2.6314</b>	<b>0.9033</b>	<b>7.9300e-</b>	<b>0.4637</b>	<b>0.0107</b>	<b>0.4744</b>	<b>0.1211</b>	<b>0.0102</b>	<b>0.1313</b>		<b>837.8218</b>	<b>837.8218</b>	<b>0.0352</b>		<b>838.7019</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0215	0.0000	0.0215	2.4400e-	0.0000	2.4400e-			0.0000			0.0000
Off-Road	0.1031	0.4469	6.3593	8.4000e-		0.0138	0.0138		0.0138	0.0138	0.0000	813.5482	813.5482	0.2631		820.1261
<b>Total</b>	<b>0.1031</b>	<b>0.4469</b>	<b>6.3593</b>	<b>8.4000e-</b>	<b>0.0215</b>	<b>0.0138</b>	<b>0.0352</b>	<b>2.4400e-</b>	<b>0.0138</b>	<b>0.0162</b>	<b>0.0000</b>	<b>813.5482</b>	<b>813.5482</b>	<b>0.2631</b>		<b>820.1261</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0493	1.7062	0.3455	4.7600e-	0.3110	5.6200e-	0.3166	0.0793	5.3800e-	0.0847		508.0619	508.0619	0.0226		508.6272
Vendor	0.0311	0.8996	0.2278	2.2000e-	0.0542	4.4800e-	0.0586	0.0156	4.2900e-	0.0199		233.0391	233.0391	0.0102		233.2947
Worker	0.0417	0.0256	0.3300	9.7000e-	0.0986	6.1000e-	0.0992	0.0262	5.7000e-	0.0267		96.7208	96.7208	2.3700e-		96.7799
<b>Total</b>	<b>0.1221</b>	<b>2.6314</b>	<b>0.9033</b>	<b>7.9300e-</b>	<b>0.4637</b>	<b>0.0107</b>	<b>0.4744</b>	<b>0.1211</b>	<b>0.0102</b>	<b>0.1313</b>		<b>837.8218</b>	<b>837.8218</b>	<b>0.0352</b>		<b>838.7019</b>



**3.2 Group A - Excavation - 2021**  
**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0215	0.0000	0.0215	2.4400e-	0.0000	2.4400e-			0.0000			0.0000
Off-Road	0.4223	4.1037	5.6149	8.4100e-		0.2189	0.2189		0.2014	0.2014		813.7551	813.7551	0.2632		820.3348
<b>Total</b>	<b>0.4223</b>	<b>4.1037</b>	<b>5.6149</b>	<b>8.4100e-</b>	<b>0.0215</b>	<b>0.2189</b>	<b>0.2403</b>	<b>2.4400e-</b>	<b>0.2014</b>	<b>0.2038</b>		<b>813.7551</b>	<b>813.7551</b>	<b>0.2632</b>		<b>820.3348</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0465	1.5735	0.3391	4.7000e-	0.1699	4.9700e-	0.1749	0.0447	4.7600e-	0.0495		501.6427	501.6427	0.0222		502.1967
Vendor	0.0255	0.8133	0.2050	2.1800e-	0.0542	1.8000e-	0.0560	0.0156	1.7200e-	0.0173		230.8954	230.8954	9.6200e-		231.1360
Worker	0.0386	0.0229	0.3024	9.4000e-	0.0986	6.0000e-	0.0992	0.0262	5.5000e-	0.0267		93.3613	93.3613	2.1200e-		93.4143
<b>Total</b>	<b>0.1107</b>	<b>2.4097</b>	<b>0.8464</b>	<b>7.8200e-</b>	<b>0.3227</b>	<b>7.3700e-</b>	<b>0.3300</b>	<b>0.0865</b>	<b>7.0300e-</b>	<b>0.0935</b>		<b>825.8994</b>	<b>825.8994</b>	<b>0.0339</b>		<b>826.7470</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0215	0.0000	0.0215	2.4400e-	0.0000	2.4400e-			0.0000			0.0000
Off-Road	0.1031	0.4469	6.3593	8.4100e-		0.0138	0.0138		0.0138	0.0138	0.0000	813.7551	813.7551	0.2632		820.3348
<b>Total</b>	<b>0.1031</b>	<b>0.4469</b>	<b>6.3593</b>	<b>8.4100e-</b>	<b>0.0215</b>	<b>0.0138</b>	<b>0.0352</b>	<b>2.4400e-</b>	<b>0.0138</b>	<b>0.0162</b>	<b>0.0000</b>	<b>813.7551</b>	<b>813.7551</b>	<b>0.2632</b>		<b>820.3348</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0465	1.5735	0.3391	4.7000e-	0.1699	4.9700e-	0.1749	0.0447	4.7600e-	0.0495		501.6427	501.6427	0.0222		502.1967
Vendor	0.0255	0.8133	0.2050	2.1800e-	0.0542	1.8000e-	0.0560	0.0156	1.7200e-	0.0173		230.8954	230.8954	9.6200e-		231.1360
Worker	0.0386	0.0229	0.3024	9.4000e-	0.0986	6.0000e-	0.0992	0.0262	5.5000e-	0.0267		93.3613	93.3613	2.1200e-		93.4143
<b>Total</b>	<b>0.1107</b>	<b>2.4097</b>	<b>0.8464</b>	<b>7.8200e-</b>	<b>0.3227</b>	<b>7.3700e-</b>	<b>0.3300</b>	<b>0.0865</b>	<b>7.0300e-</b>	<b>0.0935</b>		<b>825.8994</b>	<b>825.8994</b>	<b>0.0339</b>		<b>826.7470</b>

**3.2 Group A - Excavation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0215	0.0000	0.0215	2.4400e-	0.0000	2.4400e-			0.0000			0.0000
Off-Road	0.3723	3.4976	5.5755	8.4100e-		0.1782	0.1782		0.1640	0.1640		813.9128	813.9128	0.2632		820.4937
<b>Total</b>	<b>0.3723</b>	<b>3.4976</b>	<b>5.5755</b>	<b>8.4100e-</b>	<b>0.0215</b>	<b>0.1782</b>	<b>0.1997</b>	<b>2.4400e-</b>	<b>0.1640</b>	<b>0.1664</b>		<b>813.9128</b>	<b>813.9128</b>	<b>0.2632</b>		<b>820.4937</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0438	1.4462	0.3336	4.6300e-	0.4851	4.2600e-	0.4893	0.1221	4.0700e-	0.1261		494.9164	494.9164	0.0217		495.4582
Vendor	0.0238	0.7693	0.1930	2.1600e-	0.0542	1.5600e-	0.0557	0.0156	1.4900e-	0.0171		228.7024	228.7024	9.1900e-		228.9322
Worker	0.0360	0.0206	0.2787	9.0000e-	0.0986	5.9000e-	0.0992	0.0262	5.4000e-	0.0267		89.9665	89.9665	1.9000e-		90.0141
<b>Total</b>	<b>0.1036</b>	<b>2.2361</b>	<b>0.8053</b>	<b>7.6900e-</b>	<b>0.6378</b>	<b>6.4100e-</b>	<b>0.6442</b>	<b>0.1638</b>	<b>6.1000e-</b>	<b>0.1699</b>		<b>813.5853</b>	<b>813.5853</b>	<b>0.0328</b>		<b>814.4045</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0215	0.0000	0.0215	2.4400e-	0.0000	2.4400e-			0.0000			0.0000
Off-Road	0.1031	0.4469	6.3593	8.4100e-		0.0138	0.0138		0.0138	0.0138	0.0000	813.9128	813.9128	0.2632		820.4937
<b>Total</b>	<b>0.1031</b>	<b>0.4469</b>	<b>6.3593</b>	<b>8.4100e-</b>	<b>0.0215</b>	<b>0.0138</b>	<b>0.0352</b>	<b>2.4400e-</b>	<b>0.0138</b>	<b>0.0162</b>	<b>0.0000</b>	<b>813.9128</b>	<b>813.9128</b>	<b>0.2632</b>		<b>820.4937</b>

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0438	1.4462	0.3336	4.6300e-	0.4851	4.2600e-	0.4893	0.1221	4.0700e-	0.1261		494.9164	494.9164	0.0217		495.4582
Vendor	0.0238	0.7693	0.1930	2.1600e-	0.0542	1.5600e-	0.0557	0.0156	1.4900e-	0.0171		228.7024	228.7024	9.1900e-		228.9322
Worker	0.0360	0.0206	0.2787	9.0000e-	0.0986	5.9000e-	0.0992	0.0262	5.4000e-	0.0267		89.9665	89.9665	1.9000e-		90.0141
<b>Total</b>	<b>0.1036</b>	<b>2.2361</b>	<b>0.8053</b>	<b>7.6900e-</b>	<b>0.6378</b>	<b>6.4100e-</b>	<b>0.6442</b>	<b>0.1638</b>	<b>6.1000e-</b>	<b>0.1699</b>		<b>813.5853</b>	<b>813.5853</b>	<b>0.0328</b>		<b>814.4045</b>

### 3.3 Group A - Pile Installation - 2020 Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6518	7.6947	4.1685	0.0122		0.2928	0.2928		0.2694	0.2694		1,184.853	1,184.8538	0.3832		1,194.433
<b>Total</b>	<b>0.6518</b>	<b>7.6947</b>	<b>4.1685</b>	<b>0.0122</b>		<b>0.2928</b>	<b>0.2928</b>		<b>0.2694</b>	<b>0.2694</b>		<b>1,184.853</b>	<b>1,184.8538</b>	<b>0.3832</b>		<b>1,194.433</b>

### Unmitigated Construction Off-Site

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

Vendor	0.0311	0.8996	0.2278	2.2000e-	0.0542	4.4800e-	0.0586	0.0156	4.2900e-	0.0199		233.0391	233.0391	0.0102		233.2947
Worker	0.0417	0.0256	0.3300	9.7000e-	0.0986	6.1000e-	0.0992	0.0262	5.7000e-	0.0267		96.7208	96.7208	2.3700e-		96.7799
<b>Total</b>	<b>0.0728</b>	<b>0.9253</b>	<b>0.5579</b>	<b>3.1700e-</b>	<b>0.1527</b>	<b>5.0900e-</b>	<b>0.1578</b>	<b>0.0417</b>	<b>4.8600e-</b>	<b>0.0466</b>		<b>329.7599</b>	<b>329.7599</b>	<b>0.0126</b>		<b>330.0746</b>

### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6518	7.6947	4.1685	0.0122		0.2928	0.2928		0.2694	0.2694	0.0000	1,184.853	1,184.8538	0.3832		1,194.433
<b>Total</b>	<b>0.6518</b>	<b>7.6947</b>	<b>4.1685</b>	<b>0.0122</b>		<b>0.2928</b>	<b>0.2928</b>		<b>0.2694</b>	<b>0.2694</b>	<b>0.0000</b>	<b>1,184.853</b>	<b>1,184.8538</b>	<b>0.3832</b>		<b>1,194.433</b>

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
Vendor	0.0311	0.8996	0.2278	2.2000e-	0.0542	4.4800e-	0.0586	0.0156	4.2900e-	0.0199		233.0391	233.0391	0.0102		233.2947
Worker	0.0417	0.0256	0.3300	9.7000e-	0.0986	6.1000e-	0.0992	0.0262	5.7000e-	0.0267		96.7208	96.7208	2.3700e-		96.7799
<b>Total</b>	<b>0.0728</b>	<b>0.9253</b>	<b>0.5579</b>	<b>3.1700e-</b>	<b>0.1527</b>	<b>5.0900e-</b>	<b>0.1578</b>	<b>0.0417</b>	<b>4.8600e-</b>	<b>0.0466</b>		<b>329.7599</b>	<b>329.7599</b>	<b>0.0126</b>		<b>330.0746</b>

## 3.3 Group A - Pile Installation - 2021

### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6146	7.0296	4.0364	0.0122		0.2683	0.2683		0.2468	0.2468		1,184.790	1,184.7901	0.3832		1,194.369
<b>Total</b>	<b>0.6146</b>	<b>7.0296</b>	<b>4.0364</b>	<b>0.0122</b>		<b>0.2683</b>	<b>0.2683</b>		<b>0.2468</b>	<b>0.2468</b>		<b>1,184.790</b>	<b>1,184.7901</b>	<b>0.3832</b>		<b>1,194.369</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
Vendor	0.0255	0.8133	0.2050	2.1800e-	0.0542	1.8000e-	0.0560	0.0156	1.7200e-	0.0173		230.8954	230.8954	9.6200e-		231.1360
Worker	0.0386	0.0229	0.3024	9.4000e-	0.0986	6.0000e-	0.0992	0.0262	5.5000e-	0.0267		93.3613	93.3613	2.1200e-		93.4143
<b>Total</b>	<b>0.0642</b>	<b>0.8362</b>	<b>0.5074</b>	<b>3.1200e-</b>	<b>0.1527</b>	<b>2.4000e-</b>	<b>0.1551</b>	<b>0.0417</b>	<b>2.2700e-</b>	<b>0.0440</b>		<b>324.2567</b>	<b>324.2567</b>	<b>0.0117</b>		<b>324.5503</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6146	7.0296	4.0364	0.0122		0.2683	0.2683		0.2468	0.2468	0.0000	1,184.790	1,184.7901	0.3832		1,194.369
<b>Total</b>	<b>0.6146</b>	<b>7.0296</b>	<b>4.0364</b>	<b>0.0122</b>		<b>0.2683</b>	<b>0.2683</b>		<b>0.2468</b>	<b>0.2468</b>	<b>0.0000</b>	<b>1,184.790</b>	<b>1,184.7901</b>	<b>0.3832</b>		<b>1,194.369</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
Vendor	0.0255	0.8133	0.2050	2.1800e-	0.0542	1.8000e-	0.0560	0.0156	1.7200e-	0.0173		230.8954	230.8954	9.6200e-		231.1360
Worker	0.0386	0.0229	0.3024	9.4000e-	0.0986	6.0000e-	0.0992	0.0262	5.5000e-	0.0267		93.3613	93.3613	2.1200e-		93.4143
<b>Total</b>	<b>0.0642</b>	<b>0.8362</b>	<b>0.5074</b>	<b>3.1200e-</b>	<b>0.1527</b>	<b>2.4000e-</b>	<b>0.1551</b>	<b>0.0417</b>	<b>2.2700e-</b>	<b>0.0440</b>		<b>324.2567</b>	<b>324.2567</b>	<b>0.0117</b>		<b>324.5503</b>

**3.3 Group A - Pile Installation - 2022**  
**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5431	5.8358	3.6843	0.0123		0.2274	0.2274		0.2092	0.2092		1,186.342	1,186.3422	0.3837		1,195.934
<b>Total</b>	<b>0.5431</b>	<b>5.8358</b>	<b>3.6843</b>	<b>0.0123</b>		<b>0.2274</b>	<b>0.2274</b>		<b>0.2092</b>	<b>0.2092</b>		<b>1,186.342</b>	<b>1,186.3422</b>	<b>0.3837</b>		<b>1,195.934</b>

### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
Vendor	0.0238	0.7693	0.1930	2.1600e-	0.0542	1.5600e-	0.0557	0.0156	1.4900e-	0.0171		228.7024	228.7024	9.1900e-		228.9322
Worker	0.0360	0.0206	0.2787	9.0000e-	0.0986	5.9000e-	0.0992	0.0262	5.4000e-	0.0267		89.9665	89.9665	1.9000e-		90.0141
<b>Total</b>	<b>0.0598</b>	<b>0.7899</b>	<b>0.4717</b>	<b>3.0600e-</b>	<b>0.1528</b>	<b>2.1500e-</b>	<b>0.1549</b>	<b>0.0417</b>	<b>2.0300e-</b>	<b>0.0438</b>		<b>318.6689</b>	<b>318.6689</b>	<b>0.0111</b>		<b>318.9463</b>

### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5431	5.8358	3.6843	0.0123		0.2274	0.2274		0.2092	0.2092	0.0000	1,186.342	1,186.3422	0.3837		1,195.934
<b>Total</b>	<b>0.5431</b>	<b>5.8358</b>	<b>3.6843</b>	<b>0.0123</b>		<b>0.2274</b>	<b>0.2274</b>		<b>0.2092</b>	<b>0.2092</b>	<b>0.0000</b>	<b>1,186.342</b>	<b>1,186.3422</b>	<b>0.3837</b>		<b>1,195.934</b>

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
Vendor	0.0238	0.7693	0.1930	2.1600e-	0.0542	1.5600e-	0.0557	0.0156	1.4900e-	0.0171		228.7024	228.7024	9.1900e-		228.9322

Worker	0.0360	0.0206	0.2787	9.0000e-	0.0986	5.9000e-	0.0992	0.0262	5.4000e-	0.0267		89.9665	89.9665	1.9000e-		90.0141
<b>Total</b>	<b>0.0598</b>	<b>0.7899</b>	<b>0.4717</b>	<b>3.0600e-</b>	<b>0.1528</b>	<b>2.1500e-</b>	<b>0.1549</b>	<b>0.0417</b>	<b>2.0300e-</b>	<b>0.0438</b>		<b>318.6689</b>	<b>318.6689</b>	<b>0.0111</b>		<b>318.9463</b>

### 3.4 Group B - Concrete Footing - 2020 Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2615	2.2961	2.5987	4.4600e-		0.1262	0.1262		0.1257	0.1257		423.4513	423.4513	0.0412		424.4801
<b>Total</b>	<b>0.2615</b>	<b>2.2961</b>	<b>2.5987</b>	<b>4.4600e-</b>		<b>0.1262</b>	<b>0.1262</b>		<b>0.1257</b>	<b>0.1257</b>		<b>423.4513</b>	<b>423.4513</b>	<b>0.0412</b>		<b>424.4801</b>

### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
Vendor	0.0427	1.2370	0.3133	3.0300e-	0.0745	6.1600e-	0.0806	0.0214	5.8900e-	0.0273		320.4288	320.4288	0.0141		320.7802
Worker	0.0417	0.0256	0.3300	9.7000e-	0.0986	6.1000e-	0.0992	0.0262	5.7000e-	0.0267		96.7208	96.7208	2.3700e-		96.7799
<b>Total</b>	<b>0.0845</b>	<b>1.2626</b>	<b>0.6433</b>	<b>4.0000e-</b>	<b>0.1731</b>	<b>6.7700e-</b>	<b>0.1798</b>	<b>0.0476</b>	<b>6.4600e-</b>	<b>0.0540</b>		<b>417.1495</b>	<b>417.1495</b>	<b>0.0164</b>		<b>417.5601</b>

### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0536	0.5146	2.8366	4.4600e-		6.1300e-	6.1300e-		6.1300e-	6.1300e-	0.0000	423.4513	423.4513	0.0412		424.4801
<b>Total</b>	<b>0.0536</b>	<b>0.5146</b>	<b>2.8366</b>	<b>4.4600e-</b>		<b>6.1300e-</b>	<b>6.1300e-</b>		<b>6.1300e-</b>	<b>6.1300e-</b>	<b>0.0000</b>	<b>423.4513</b>	<b>423.4513</b>	<b>0.0412</b>		<b>424.4801</b>

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
Vendor	0.0427	1.2370	0.3133	3.0300e-	0.0745	6.1600e-	0.0806	0.0214	5.8900e-	0.0273		320.4288	320.4288	0.0141		320.7802
Worker	0.0417	0.0256	0.3300	9.7000e-	0.0986	6.1000e-	0.0992	0.0262	5.7000e-	0.0267		96.7208	96.7208	2.3700e-		96.7799
<b>Total</b>	<b>0.0845</b>	<b>1.2626</b>	<b>0.6433</b>	<b>4.0000e-</b>	<b>0.1731</b>	<b>6.7700e-</b>	<b>0.1798</b>	<b>0.0476</b>	<b>6.4600e-</b>	<b>0.0540</b>		<b>417.1495</b>	<b>417.1495</b>	<b>0.0164</b>		<b>417.5601</b>

### **3.4 Group B - Concrete Footing - 2021**

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2358	2.0942	2.5858	4.4600e-		0.1078	0.1078		0.1075	0.1075		423.4519	423.4519	0.0392		424.4328
<b>Total</b>	<b>0.2358</b>	<b>2.0942</b>	<b>2.5858</b>	<b>4.4600e-</b>		<b>0.1078</b>	<b>0.1078</b>		<b>0.1075</b>	<b>0.1075</b>		<b>423.4519</b>	<b>423.4519</b>	<b>0.0392</b>		<b>424.4328</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
Vendor	0.0351	1.1183	0.2818	3.0000e-	0.0745	2.4700e-	0.0770	0.0214	2.3600e-	0.0238		317.4812	317.4812	0.0132		317.8120
Worker	0.0386	0.0229	0.3024	9.4000e-	0.0986	6.0000e-	0.0992	0.0262	5.5000e-	0.0267		93.3613	93.3613	2.1200e-		93.4143
<b>Total</b>	<b>0.0737</b>	<b>1.1412</b>	<b>0.5842</b>	<b>3.9400e-</b>	<b>0.1731</b>	<b>3.0700e-</b>	<b>0.1761</b>	<b>0.0476</b>	<b>2.9100e-</b>	<b>0.0505</b>		<b>410.8425</b>	<b>410.8425</b>	<b>0.0154</b>		<b>411.2263</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day					
Off-Road	0.0536	0.5146	2.8366	4.4600e-		6.1300e-	6.1300e-		6.1300e-	6.1300e-	0.0000	423.4519	423.4519	0.0392		424.4328
<b>Total</b>	<b>0.0536</b>	<b>0.5146</b>	<b>2.8366</b>	<b>4.4600e-</b>		<b>6.1300e-</b>	<b>6.1300e-</b>		<b>6.1300e-</b>	<b>6.1300e-</b>	<b>0.0000</b>	<b>423.4519</b>	<b>423.4519</b>	<b>0.0392</b>		<b>424.4328</b>

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
Vendor	0.0351	1.1183	0.2818	3.0000e-	0.0745	2.4700e-	0.0770	0.0214	2.3600e-	0.0238		317.4812	317.4812	0.0132		317.8120
Worker	0.0386	0.0229	0.3024	9.4000e-	0.0986	6.0000e-	0.0992	0.0262	5.5000e-	0.0267		93.3613	93.3613	2.1200e-		93.4143
<b>Total</b>	<b>0.0737</b>	<b>1.1412</b>	<b>0.5842</b>	<b>3.9400e-</b>	<b>0.1731</b>	<b>3.0700e-</b>	<b>0.1761</b>	<b>0.0476</b>	<b>2.9100e-</b>	<b>0.0505</b>		<b>410.8425</b>	<b>410.8425</b>	<b>0.0154</b>		<b>411.2263</b>

### **3.4 Group B - Concrete Footing - 2022** Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2186	1.9386	2.5807	4.4600e-		0.0947	0.0947		0.0943	0.0943		423.4513	423.4513	0.0380		424.4002
<b>Total</b>	<b>0.2186</b>	<b>1.9386</b>	<b>2.5807</b>	<b>4.4600e-</b>		<b>0.0947</b>	<b>0.0947</b>		<b>0.0943</b>	<b>0.0943</b>		<b>423.4513</b>	<b>423.4513</b>	<b>0.0380</b>		<b>424.4002</b>

### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
Vendor	0.0327	1.0578	0.2654	2.9700e-	0.0745	2.1500e-	0.0766	0.0214	2.0500e-	0.0235		314.4658	314.4658	0.0126		314.7818
Worker	0.0360	0.0206	0.2787	9.0000e-	0.0986	5.9000e-	0.0992	0.0262	5.4000e-	0.0267		89.9665	89.9665	1.9000e-		90.0141

<b>Total</b>	<b>0.0687</b>	<b>1.0784</b>	<b>0.5441</b>	<b>3.8700e-</b>	<b>0.1731</b>	<b>2.7400e-</b>	<b>0.1758</b>	<b>0.0476</b>	<b>2.5900e-</b>	<b>0.0502</b>		<b>404.4323</b>	<b>404.4323</b>	<b>0.0145</b>		<b>404.7959</b>
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### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0536	0.5146	2.8366	4.4600e-		6.1300e-	6.1300e-		6.1300e-	6.1300e-	0.0000	423.4513	423.4513	0.0380		424.4002
<b>Total</b>	<b>0.0536</b>	<b>0.5146</b>	<b>2.8366</b>	<b>4.4600e-</b>		<b>6.1300e-</b>	<b>6.1300e-</b>		<b>6.1300e-</b>	<b>6.1300e-</b>	<b>0.0000</b>	<b>423.4513</b>	<b>423.4513</b>	<b>0.0380</b>		<b>424.4002</b>

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
Vendor	0.0327	1.0578	0.2654	2.9700e-	0.0745	2.1500e-	0.0766	0.0214	2.0500e-	0.0235		314.4658	314.4658	0.0126		314.7818
Worker	0.0360	0.0206	0.2787	9.0000e-	0.0986	5.9000e-	0.0992	0.0262	5.4000e-	0.0267		89.9665	89.9665	1.9000e-		90.0141
<b>Total</b>	<b>0.0687</b>	<b>1.0784</b>	<b>0.5441</b>	<b>3.8700e-</b>	<b>0.1731</b>	<b>2.7400e-</b>	<b>0.1758</b>	<b>0.0476</b>	<b>2.5900e-</b>	<b>0.0502</b>		<b>404.4323</b>	<b>404.4323</b>	<b>0.0145</b>		<b>404.7959</b>

### **3.5 Group B - Concrete Bent - 2020**

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0146	0.2375	0.4038	6.2000e-		5.2800e-	5.2800e-		4.8600e-	4.8600e-		60.0145	60.0145	0.0194		60.4997
<b>Total</b>	<b>0.0146</b>	<b>0.2375</b>	<b>0.4038</b>	<b>6.2000e-</b>		<b>5.2800e-</b>	<b>5.2800e-</b>		<b>4.8600e-</b>	<b>4.8600e-</b>		<b>60.0145</b>	<b>60.0145</b>	<b>0.0194</b>		<b>60.4997</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
Vendor	0.0427	1.2370	0.3133	3.0300e-	0.0745	6.1600e-	0.0806	0.0214	5.8900e-	0.0273		320.4288	320.4288	0.0141		320.7802
Worker	0.0417	0.0256	0.3300	9.7000e-	0.0986	6.1000e-	0.0992	0.0262	5.7000e-	0.0267		96.7208	96.7208	2.3700e-		96.7799
<b>Total</b>	<b>0.0845</b>	<b>1.2626</b>	<b>0.6433</b>	<b>4.0000e-</b>	<b>0.1731</b>	<b>6.7700e-</b>	<b>0.1798</b>	<b>0.0476</b>	<b>6.4600e-</b>	<b>0.0540</b>		<b>417.1495</b>	<b>417.1495</b>	<b>0.0164</b>		<b>417.5601</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0153	0.3483	0.4703	6.2000e-		1.0200e-	1.0200e-		1.0200e-	1.0200e-	0.0000	60.0145	60.0145	0.0194		60.4997
<b>Total</b>	<b>0.0153</b>	<b>0.3483</b>	<b>0.4703</b>	<b>6.2000e-</b>		<b>1.0200e-</b>	<b>1.0200e-</b>		<b>1.0200e-</b>	<b>1.0200e-</b>	<b>0.0000</b>	<b>60.0145</b>	<b>60.0145</b>	<b>0.0194</b>		<b>60.4997</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
Vendor	0.0427	1.2370	0.3133	3.0300e-	0.0745	6.1600e-	0.0806	0.0214	5.8900e-	0.0273		320.4288	320.4288	0.0141		320.7802
Worker	0.0417	0.0256	0.3300	9.7000e-	0.0986	6.1000e-	0.0992	0.0262	5.7000e-	0.0267		96.7208	96.7208	2.3700e-		96.7799
<b>Total</b>	<b>0.0845</b>	<b>1.2626</b>	<b>0.6433</b>	<b>4.0000e-</b>	<b>0.1731</b>	<b>6.7700e-</b>	<b>0.1798</b>	<b>0.0476</b>	<b>6.4600e-</b>	<b>0.0540</b>		<b>417.1495</b>	<b>417.1495</b>	<b>0.0164</b>		<b>417.5601</b>

**3.5 Group B - Concrete Bent - 2021**

**Unmitigated Construction On-Site**

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

Off-Road	0.0138	0.2217	0.4038	6.2000e-		4.2300e-	4.2300e-		3.8900e-	3.8900e-		60.0145	60.0145	0.0194		60.4997
<b>Total</b>	<b>0.0138</b>	<b>0.2217</b>	<b>0.4038</b>	<b>6.2000e-</b>		<b>4.2300e-</b>	<b>4.2300e-</b>		<b>3.8900e-</b>	<b>3.8900e-</b>		<b>60.0145</b>	<b>60.0145</b>	<b>0.0194</b>		<b>60.4997</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
Vendor	0.0351	1.1183	0.2818	3.0000e-	0.0745	2.4700e-	0.0770	0.0214	2.3600e-	0.0238		317.4812	317.4812	0.0132		317.8120
Worker	0.0386	0.0229	0.3024	9.4000e-	0.0986	6.0000e-	0.0992	0.0262	5.5000e-	0.0267		93.3613	93.3613	2.1200e-		93.4143
<b>Total</b>	<b>0.0737</b>	<b>1.1412</b>	<b>0.5842</b>	<b>3.9400e-</b>	<b>0.1731</b>	<b>3.0700e-</b>	<b>0.1761</b>	<b>0.0476</b>	<b>2.9100e-</b>	<b>0.0505</b>		<b>410.8425</b>	<b>410.8425</b>	<b>0.0154</b>		<b>411.2263</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0153	0.3483	0.4703	6.2000e-		1.0200e-	1.0200e-		1.0200e-	1.0200e-	0.0000	60.0145	60.0145	0.0194		60.4997
<b>Total</b>	<b>0.0153</b>	<b>0.3483</b>	<b>0.4703</b>	<b>6.2000e-</b>		<b>1.0200e-</b>	<b>1.0200e-</b>		<b>1.0200e-</b>	<b>1.0200e-</b>	<b>0.0000</b>	<b>60.0145</b>	<b>60.0145</b>	<b>0.0194</b>		<b>60.4997</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
Vendor	0.0351	1.1183	0.2818	3.0000e-	0.0745	2.4700e-	0.0770	0.0214	2.3600e-	0.0238		317.4812	317.4812	0.0132		317.8120
Worker	0.0386	0.0229	0.3024	9.4000e-	0.0986	6.0000e-	0.0992	0.0262	5.5000e-	0.0267		93.3613	93.3613	2.1200e-		93.4143
<b>Total</b>	<b>0.0737</b>	<b>1.1412</b>	<b>0.5842</b>	<b>3.9400e-</b>	<b>0.1731</b>	<b>3.0700e-</b>	<b>0.1761</b>	<b>0.0476</b>	<b>2.9100e-</b>	<b>0.0505</b>		<b>410.8425</b>	<b>410.8425</b>	<b>0.0154</b>		<b>411.2263</b>

**3.5 Group B - Concrete Bent - 2022**  
**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0133	0.2068	0.4037	6.2000e-		3.8400e-	3.8400e-		3.5300e-	3.5300e-		60.0145	60.0145	0.0194		60.4997
<b>Total</b>	<b>0.0133</b>	<b>0.2068</b>	<b>0.4037</b>	<b>6.2000e-</b>		<b>3.8400e-</b>	<b>3.8400e-</b>		<b>3.5300e-</b>	<b>3.5300e-</b>		<b>60.0145</b>	<b>60.0145</b>	<b>0.0194</b>		<b>60.4997</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
Vendor	0.0327	1.0578	0.2654	2.9700e-	0.0745	2.1500e-	0.0766	0.0214	2.0500e-	0.0235		314.4658	314.4658	0.0126		314.7818
Worker	0.0360	0.0206	0.2787	9.0000e-	0.0986	5.9000e-	0.0992	0.0262	5.4000e-	0.0267		89.9665	89.9665	1.9000e-		90.0141
<b>Total</b>	<b>0.0687</b>	<b>1.0784</b>	<b>0.5441</b>	<b>3.8700e-</b>	<b>0.1731</b>	<b>2.7400e-</b>	<b>0.1758</b>	<b>0.0476</b>	<b>2.5900e-</b>	<b>0.0502</b>		<b>404.4323</b>	<b>404.4323</b>	<b>0.0145</b>		<b>404.7959</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0153	0.3483	0.4703	6.2000e-		1.0200e-	1.0200e-		1.0200e-	1.0200e-	0.0000	60.0145	60.0145	0.0194		60.4997
<b>Total</b>	<b>0.0153</b>	<b>0.3483</b>	<b>0.4703</b>	<b>6.2000e-</b>		<b>1.0200e-</b>	<b>1.0200e-</b>		<b>1.0200e-</b>	<b>1.0200e-</b>	<b>0.0000</b>	<b>60.0145</b>	<b>60.0145</b>	<b>0.0194</b>		<b>60.4997</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
Vendor	0.0327	1.0578	0.2654	2.9700e-	0.0745	2.1500e-	0.0766	0.0214	2.0500e-	0.0235		314.4658	314.4658	0.0126		314.7818
Worker	0.0360	0.0206	0.2787	9.0000e-	0.0986	5.9000e-	0.0992	0.0262	5.4000e-	0.0267		89.9665	89.9665	1.9000e-		90.0141
<b>Total</b>	<b>0.0687</b>	<b>1.0784</b>	<b>0.5441</b>	<b>3.8700e-</b>	<b>0.1731</b>	<b>2.7400e-</b>	<b>0.1758</b>	<b>0.0476</b>	<b>2.5900e-</b>	<b>0.0502</b>		<b>404.4323</b>	<b>404.4323</b>	<b>0.0145</b>		<b>404.7959</b>

**4.0 Operational Detail - Mobile**

**5.0 Energy Detail**

**6.0 Area Detail**

**7.0 Water Detail**

**8.0 Waste Detail**

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**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

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**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**



## CalEEMod Output - Frame 2 (Super-Structure Construction)



Eastridge to BART - Frames 2A & 2B Groups A & B - Santa Clara County, Summer

**Eastridge to BART - Frames 2A & 2B Groups A & B**  
**Santa Clara County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unenclosed Parking Structure	364.32	1000sqft	8.36	364,320.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	4			<b>Operational Year</b>	2021
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use - From project description: 2.3 miles of aerial guideway...30 foot wide concrete deck structure. 2.3 miles \* 30 feet = 364,320 square feet.

Construction Phase - Input from project applicant

Off-road Equipment - Input from project applicant. Welders would be used for construction but would obtain power from generator, so adding welders would double count emissions.

Off-road Equipment - Data provided by project applicant. Welder will obtain power from generator.

Off-road Equipment - Data provided by project applicant. Welder will obtain power from generator.

Off-road Equipment - Data provided by project applicant.

Off-road Equipment - Data provided by project applicant. Welder will obtain power from generator.

Construction Off-road Equipment Mitigation - All equipment less than 175 horsepower will be Tier 4.

Trips and VMT - 10 workers/day for superstructure. 1 truck/day operates 4 hours/day for hauling tools, materials, equipment - assuming 2 trip/hour = 8 vendor trips/day. 6 vendor trips for concrete boom & mixer trucks. 1 haul truck/day to deliver large materials

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	21859	11880
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	230.00	475.00
tblConstructionPhase	NumDays	230.00	475.00
tblConstructionPhase	NumDays	230.00	475.00
tblConstructionPhase	NumDays	230.00	475.00
tblOffRoadEquipment	HorsePower	231.00	226.00
tblOffRoadEquipment	HorsePower	231.00	226.00
tblOffRoadEquipment	HorsePower	231.00	275.00
tblOffRoadEquipment	HorsePower	231.00	226.00
tblOffRoadEquipment	HorsePower	63.00	62.00
tblOffRoadEquipment	HorsePower	63.00	62.00
tblOffRoadEquipment	HorsePower	168.00	167.00
tblOffRoadEquipment	HorsePower	168.00	167.00
tblOffRoadEquipment	HorsePower	168.00	167.00
tblOffRoadEquipment	HorsePower	168.00	167.00
tblOffRoadEquipment	HorsePower	84.00	365.00
tblOffRoadEquipment	HorsePower	84.00	365.00
tblOffRoadEquipment	LoadFactor	0.40	0.29

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	2.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblTripsAndVMT	HaulingTripNumber	0.00	475.00
tblTripsAndVMT	VendorTripNumber	60.00	8.00
tblTripsAndVMT	VendorTripNumber	60.00	11.00
tblTripsAndVMT	VendorTripNumber	60.00	8.00
tblTripsAndVMT	VendorTripNumber	60.00	11.00
tblTripsAndVMT	WorkerTripNumber	153.00	10.00
tblTripsAndVMT	WorkerTripNumber	153.00	10.00
tblTripsAndVMT	WorkerTripNumber	153.00	10.00
tblTripsAndVMT	WorkerTripNumber	153.00	10.00

## 2.0 Emissions Summary

## 3.0 Construction Detail

### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Frame 2A Group A - Falsework Erection and Formwork	Building Construction	7/1/2020	4/26/2022	5	475	
2	Frame 2A Group B - Concrete Superstructure	Building Construction	7/1/2020	4/26/2022	5	475	
3	Frame 2B Group A - Girder Erection	Building Construction	7/1/2020	4/26/2022	5	475	
4	Frame 2B Group B - Concrete Deck Placement	Building Construction	7/1/2020	4/26/2022	5	475	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 8.36

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Frame 2A Group A - Falsework Erection and Formwork Installation	Cranes	1	4.00	226	0.29
Frame 2A Group A - Falsework Erection and Formwork Installation	Excavators	0	8.00	158	0.38
Frame 2A Group A - Falsework Erection and Formwork Installation	Forklifts	0	8.00	89	0.20
Frame 2A Group A - Falsework Erection and Formwork Installation	Generator Sets	1	8.00	84	0.74
Frame 2A Group A - Falsework Erection and Formwork Installation	Graders	0	8.00	187	0.41
Frame 2A Group A - Falsework Erection and Formwork Installation	Other Material Handling Equipment	1	4.00	167	0.40
Frame 2A Group A - Falsework Erection and Formwork Installation	Rubber Tired Dozers	0		247	0.40
Frame 2A Group A - Falsework Erection and Formwork Installation	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Frame 2A Group A - Falsework Erection and Formwork Installation	Welders	0	8.00	46	0.45
Frame 2A Group B - Concrete Superstructure	Aerial Lifts	1	4.00	62	0.31
Frame 2A Group B - Concrete Superstructure	Air Compressors	1	4.00	78	0.48

Frame 2A Group B - Concrete Superstructure	Cranes	0	8.00	226	0.29
Frame 2A Group B - Concrete Superstructure	Forklifts	0	8.00	89	0.20
Frame 2A Group B - Concrete Superstructure	Generator Sets	1	8.00	84	0.74
Frame 2A Group B - Concrete Superstructure	Other Material Handling Equipment	1	4.00	167	0.29
Frame 2A Group B - Concrete Superstructure	Pumps	1	6.00	365	0.74
Frame 2A Group B - Concrete Superstructure	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Frame 2A Group B - Concrete Superstructure	Welders	0	8.00	46	0.45
Frame 2B Group A - Girder Erection	Aerial Lifts	0	8.00	63	0.31
Frame 2B Group A - Girder Erection	Cranes	2	2.00	275	0.29
Frame 2B Group A - Girder Erection	Forklifts	0	8.00	89	0.20
Frame 2B Group A - Girder Erection	Generator Sets	0	8.00	84	0.74
Frame 2B Group A - Girder Erection	Other Material Handling Equipment	1	4.00	167	0.40
Frame 2B Group A - Girder Erection	Pumps	0	8.00	84	0.74
Frame 2B Group A - Girder Erection	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Frame 2B Group A - Girder Erection	Welders	0	8.00	46	0.45
Frame 2B Group B - Concrete Deck Placement	Aerial Lifts	1	4.00	62	0.31
Frame 2B Group B - Concrete Deck Placement	Air Compressors	1	4.00	78	0.48
Frame 2B Group B - Concrete Deck Placement	Cranes	0	8.00	226	0.29
Frame 2B Group B - Concrete Deck Placement	Forklifts	0	8.00	89	0.20
Frame 2B Group B - Concrete Deck Placement	Generator Sets	1	8.00	84	0.74
Frame 2B Group B - Concrete Deck Placement	Other Material Handling Equipment	1	4.00	167	0.40
Frame 2B Group B - Concrete Deck Placement	Pumps	1	6.00	365	0.74
Frame 2B Group B - Concrete Deck Placement	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Frame 2B Group B - Concrete Deck Placement	Welders	0	8.00	46	0.45

### Trips and VMT

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
Frame 2A Group A - Falsework Erection	3	10.00	8.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Frame 2A Group B - Concrete	5	10.00	11.00	475.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Frame 2B Group A - Girder Erection	3	10.00	8.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Frame 2B Group B - Concrete Deck	5	10.00	11.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

### 3.2 Frame 2A Group A - Falsework Erection and Formwork

#### 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	lb/day										lb/day					
Off-Road	0.7693	7.5101	6.6082	0.0123		0.3745	0.3745		0.3603	0.3603		1,174.5545	1,174.5545	0.2135		1,179.8909
<b>Total</b>	<b>0.7693</b>	<b>7.5101</b>	<b>6.6082</b>	<b>0.0123</b>		<b>0.3745</b>	<b>0.3745</b>		<b>0.3603</b>	<b>0.3603</b>		<b>1,174.5545</b>	<b>1,174.5545</b>	<b>0.2135</b>		<b>1,179.8909</b>

#### 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	lb/day										lb/day					
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
Vendor	0.0311	0.8996	0.2278	2.2000e-003	0.0542	4.4800e-003	0.0586	0.0156	4.2900e-003	0.0199		233.0391	233.0391	0.0102		233.2947
Worker	0.0348	0.0213	0.2750	8.1000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		80.6006	80.6006	1.9700e-003		80.6500

<b>Total</b>	<b>0.0658</b>	<b>0.9210</b>	<b>0.5029</b>	<b>3.0100e-003</b>	<b>0.1363</b>	<b>4.9900e-003</b>	<b>0.1413</b>	<b>0.0374</b>	<b>4.7600e-003</b>	<b>0.0421</b>		<b>313.6398</b>	<b>313.6398</b>	<b>0.0122</b>		<b>313.9446</b>
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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	lb/day										lb/day					
Off-Road	0.3229	3.0756	7.2707	0.0123		0.1222	0.1222		0.1135	0.1135	0.0000	1,174.5545	1,174.5545	0.2135		1,179.8909
<b>Total</b>	<b>0.3229</b>	<b>3.0756</b>	<b>7.2707</b>	<b>0.0123</b>		<b>0.1222</b>	<b>0.1222</b>		<b>0.1135</b>	<b>0.1135</b>	<b>0.0000</b>	<b>1,174.5545</b>	<b>1,174.5545</b>	<b>0.2135</b>		<b>1,179.8909</b>

**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	lb/day										lb/day					
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
Vendor	0.0311	0.8996	0.2278	2.2000e-003	0.0542	4.4800e-003	0.0586	0.0156	4.2900e-003	0.0199		233.0391	233.0391	0.0102		233.2947
Worker	0.0348	0.0213	0.2750	8.1000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		80.6006	80.6006	1.9700e-003		80.6500
<b>Total</b>	<b>0.0658</b>	<b>0.9210</b>	<b>0.5029</b>	<b>3.0100e-003</b>	<b>0.1363</b>	<b>4.9900e-003</b>	<b>0.1413</b>	<b>0.0374</b>	<b>4.7600e-003</b>	<b>0.0421</b>		<b>313.6398</b>	<b>313.6398</b>	<b>0.0122</b>		<b>313.9446</b>

**3.2 Frame 2A Group A - Falsework Erection and Formwork**

**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	lb/day										lb/day					
Off-Road	0.7059	6.8616	6.5376	0.0123		0.3311	0.3311		0.3180	0.3180		1,174.5297	1,174.5297	0.2102		1,179.7836
<b>Total</b>	<b>0.7059</b>	<b>6.8616</b>	<b>6.5376</b>	<b>0.0123</b>		<b>0.3311</b>	<b>0.3311</b>		<b>0.3180</b>	<b>0.3180</b>		<b>1,174.5297</b>	<b>1,174.5297</b>	<b>0.2102</b>		<b>1,179.7836</b>

**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	lb/day										lb/day					
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
Vendor	0.0255	0.8133	0.2050	2.1800e-003	0.0542	1.8000e-003	0.0560	0.0156	1.7200e-003	0.0173		230.8954	230.8954	9.6200e-003		231.1360
Worker	0.0322	0.0191	0.2520	7.8000e-004	0.0822	5.0000e-004	0.0827	0.0218	4.6000e-004	0.0223		77.8011	77.8011	1.7700e-003		77.8453
<b>Total</b>	<b>0.0577</b>	<b>0.8324</b>	<b>0.4570</b>	<b>2.9600e-003</b>	<b>0.1363</b>	<b>2.3000e-003</b>	<b>0.1386</b>	<b>0.0374</b>	<b>2.1800e-003</b>	<b>0.0396</b>		<b>308.6965</b>	<b>308.6965</b>	<b>0.0114</b>		<b>308.9813</b>

**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	lb/day										lb/day					



Off-Road	0.3031	2.8104	7.2059	0.0123		0.1098	0.1098		0.1021	0.1021	0.0000	1,174.5297	1,174.5297	0.2102		1,179.7836
<b>Total</b>	<b>0.3031</b>	<b>2.8104</b>	<b>7.2059</b>	<b>0.0123</b>		<b>0.1098</b>	<b>0.1098</b>		<b>0.1021</b>	<b>0.1021</b>	<b>0.0000</b>	<b>1,174.5297</b>	<b>1,174.5297</b>	<b>0.2102</b>		<b>1,179.7836</b>

**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	lb/day										lb/day					
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
Vendor	0.0255	0.8133	0.2050	2.1800e-003	0.0542	1.8000e-003	0.0560	0.0156	1.7200e-003	0.0173		230.8954	230.8954	9.6200e-003		231.1360
Worker	0.0322	0.0191	0.2520	7.8000e-004	0.0822	5.0000e-004	0.0827	0.0218	4.6000e-004	0.0223		77.8011	77.8011	1.7700e-003		77.8453
<b>Total</b>	<b>0.0577</b>	<b>0.8324</b>	<b>0.4570</b>	<b>2.9600e-003</b>	<b>0.1363</b>	<b>2.3000e-003</b>	<b>0.1386</b>	<b>0.0374</b>	<b>2.1800e-003</b>	<b>0.0396</b>		<b>308.6965</b>	<b>308.6965</b>	<b>0.0114</b>		<b>308.9813</b>

**3.2 Frame 2A Group A - Falsework Erection and Formwork**

**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	lb/day										lb/day					
Off-Road	0.6454	6.0907	6.4726	0.0123		0.2924	0.2924		0.2808	0.2808		1,174.5745	1,174.5745	0.2080		1,179.7740
<b>Total</b>	<b>0.6454</b>	<b>6.0907</b>	<b>6.4726</b>	<b>0.0123</b>		<b>0.2924</b>	<b>0.2924</b>		<b>0.2808</b>	<b>0.2808</b>		<b>1,174.5745</b>	<b>1,174.5745</b>	<b>0.2080</b>		<b>1,179.7740</b>

**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	lb/day										lb/day					
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
Vendor	0.0238	0.7693	0.1930	2.1600e-003	0.0542	1.5600e-003	0.0557	0.0156	1.4900e-003	0.0171		228.7024	228.7024	9.1900e-003		228.9322
Worker	0.0300	0.0171	0.2322	7.5000e-004	0.0822	4.9000e-004	0.0826	0.0218	4.5000e-004	0.0222		74.9721	74.9721	1.5900e-003		75.0118
<b>Total</b>	<b>0.0538</b>	<b>0.7864</b>	<b>0.4253</b>	<b>2.9100e-003</b>	<b>0.1363</b>	<b>2.0500e-003</b>	<b>0.1384</b>	<b>0.0374</b>	<b>1.9400e-003</b>	<b>0.0393</b>		<b>303.6745</b>	<b>303.6745</b>	<b>0.0108</b>		<b>303.9440</b>

**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	lb/day										lb/day					
Off-Road	0.2836	2.4851	7.1616	0.0123		0.0985	0.0985		0.0917	0.0917	0.0000	1,174.5745	1,174.5745	0.2080		1,179.7740
<b>Total</b>	<b>0.2836</b>	<b>2.4851</b>	<b>7.1616</b>	<b>0.0123</b>		<b>0.0985</b>	<b>0.0985</b>		<b>0.0917</b>	<b>0.0917</b>	<b>0.0000</b>	<b>1,174.5745</b>	<b>1,174.5745</b>	<b>0.2080</b>		<b>1,179.7740</b>

**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	lb/day										lb/day					
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
Vendor	0.0238	0.7693	0.1930	2.1600e-003	0.0542	1.5600e-003	0.0557	0.0156	1.4900e-003	0.0171		228.7024	228.7024	9.1900e-003		228.9322
Worker	0.0300	0.0171	0.2322	7.5000e-004	0.0822	4.9000e-004	0.0826	0.0218	4.5000e-004	0.0222		74.9721	74.9721	1.5900e-003		75.0118
<b>Total</b>	<b>0.0538</b>	<b>0.7864</b>	<b>0.4253</b>	<b>2.9100e-003</b>	<b>0.1363</b>	<b>2.0500e-003</b>	<b>0.1384</b>	<b>0.0374</b>	<b>1.9400e-003</b>	<b>0.0393</b>		<b>303.6745</b>	<b>303.6745</b>	<b>0.0108</b>		<b>303.9440</b>

### 3.3 Frame 2A Group B - Concrete Superstructure - 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	lb/day										lb/day					
Off-Road	1.4129	12.5061	10.4527	0.0293		0.5313	0.5313		0.5267	0.5267		3,122.7898	3,122.7898	0.2050		3,127.9154
<b>Total</b>	<b>1.4129</b>	<b>12.5061</b>	<b>10.4527</b>	<b>0.0293</b>		<b>0.5313</b>	<b>0.5313</b>		<b>0.5267</b>	<b>0.5267</b>		<b>3,122.7898</b>	<b>3,122.7898</b>	<b>0.2050</b>		<b>3,127.9154</b>

#### 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	lb/day										lb/day					
Hauling	8.2100e-003	0.2844	0.0576	7.9000e-004	0.0518	9.4000e-004	0.0528	0.0132	9.0000e-004	0.0141		84.6770	84.6770	3.7700e-003		84.7712

Vendor	0.0427	1.2370	0.3133	3.0300e-003	0.0745	6.1600e-003	0.0806	0.0214	5.8900e-003	0.0273		320.4288	320.4288	0.0141		320.7802
Worker	0.0348	0.0213	0.2750	8.1000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		80.6006	80.6006	1.9700e-003		80.6500
<b>Total</b>	<b>0.0857</b>	<b>1.5427</b>	<b>0.6459</b>	<b>4.6300e-003</b>	<b>0.2085</b>	<b>7.6100e-003</b>	<b>0.2161</b>	<b>0.0565</b>	<b>7.2600e-003</b>	<b>0.0637</b>		<b>485.7064</b>	<b>485.7064</b>	<b>0.0198</b>		<b>486.2014</b>

**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	lb/day										lb/day					
Off-Road	0.8568	7.5239	11.1188	0.0293		0.2198	0.2198		0.2198	0.2198	0.0000	3,122.7898	3,122.7898	0.2050		3,127.9154
<b>Total</b>	<b>0.8568</b>	<b>7.5239</b>	<b>11.1188</b>	<b>0.0293</b>		<b>0.2198</b>	<b>0.2198</b>		<b>0.2198</b>	<b>0.2198</b>	<b>0.0000</b>	<b>3,122.7898</b>	<b>3,122.7898</b>	<b>0.2050</b>		<b>3,127.9154</b>

**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	lb/day										lb/day					
Hauling	8.2100e-003	0.2844	0.0576	7.9000e-004	0.0518	9.4000e-004	0.0528	0.0132	9.0000e-004	0.0141		84.6770	84.6770	3.7700e-003		84.7712
Vendor	0.0427	1.2370	0.3133	3.0300e-003	0.0745	6.1600e-003	0.0806	0.0214	5.8900e-003	0.0273		320.4288	320.4288	0.0141		320.7802
Worker	0.0348	0.0213	0.2750	8.1000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		80.6006	80.6006	1.9700e-003		80.6500
<b>Total</b>	<b>0.0857</b>	<b>1.5427</b>	<b>0.6459</b>	<b>4.6300e-003</b>	<b>0.2085</b>	<b>7.6100e-003</b>	<b>0.2161</b>	<b>0.0565</b>	<b>7.2600e-003</b>	<b>0.0637</b>		<b>485.7064</b>	<b>485.7064</b>	<b>0.0198</b>		<b>486.2014</b>

### 3.3 Frame 2A Group B - Concrete Superstructure - 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	lb/day										lb/day					
Off-Road	1.3033	11.0983	10.3977	0.0293		0.4633	0.4633		0.4590	0.4590		3,122.7862	3,122.7862	0.1965		3,127.6991
<b>Total</b>	<b>1.3033</b>	<b>11.0983</b>	<b>10.3977</b>	<b>0.0293</b>		<b>0.4633</b>	<b>0.4633</b>		<b>0.4590</b>	<b>0.4590</b>		<b>3,122.7862</b>	<b>3,122.7862</b>	<b>0.1965</b>		<b>3,127.6991</b>

#### 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	lb/day										lb/day					
Hauling	7.7500e-003	0.2623	0.0565	7.8000e-004	0.0283	8.3000e-004	0.0292	7.4500e-003	7.9000e-004	8.2400e-003		83.6071	83.6071	3.6900e-003		83.6994
Vendor	0.0351	1.1183	0.2818	3.0000e-003	0.0745	2.4700e-003	0.0770	0.0214	2.3600e-003	0.0238		317.4812	317.4812	0.0132		317.8120
Worker	0.0322	0.0191	0.2520	7.8000e-004	0.0822	5.0000e-004	0.0827	0.0218	4.6000e-004	0.0223		77.8011	77.8011	1.7700e-003		77.8453
<b>Total</b>	<b>0.0750</b>	<b>1.3996</b>	<b>0.5903</b>	<b>4.5600e-003</b>	<b>0.1850</b>	<b>3.8000e-003</b>	<b>0.1888</b>	<b>0.0507</b>	<b>3.6100e-003</b>	<b>0.0543</b>		<b>478.8894</b>	<b>478.8894</b>	<b>0.0187</b>		<b>479.3567</b>

#### 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	lb/day										lb/day					
Off-Road	0.8068	6.6057	11.0831	0.0293		0.1948	0.1948		0.1948	0.1948	0.0000	3,122.7862	3,122.7862	0.1965		3,127.6991
<b>Total</b>	<b>0.8068</b>	<b>6.6057</b>	<b>11.0831</b>	<b>0.0293</b>		<b>0.1948</b>	<b>0.1948</b>		<b>0.1948</b>	<b>0.1948</b>	<b>0.0000</b>	<b>3,122.7862</b>	<b>3,122.7862</b>	<b>0.1965</b>		<b>3,127.6991</b>

### 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	lb/day										lb/day					
Hauling	7.7500e-003	0.2623	0.0565	7.8000e-004	0.0283	8.3000e-004	0.0292	7.4500e-003	7.9000e-004	8.2400e-003		83.6071	83.6071	3.6900e-003		83.6994
Vendor	0.0351	1.1183	0.2818	3.0000e-003	0.0745	2.4700e-003	0.0770	0.0214	2.3600e-003	0.0238		317.4812	317.4812	0.0132		317.8120
Worker	0.0322	0.0191	0.2520	7.8000e-004	0.0822	5.0000e-004	0.0827	0.0218	4.6000e-004	0.0223		77.8011	77.8011	1.7700e-003		77.8453
<b>Total</b>	<b>0.0750</b>	<b>1.3996</b>	<b>0.5903</b>	<b>4.5600e-003</b>	<b>0.1850</b>	<b>3.8000e-003</b>	<b>0.1888</b>	<b>0.0507</b>	<b>3.6100e-003</b>	<b>0.0543</b>		<b>478.8894</b>	<b>478.8894</b>	<b>0.0187</b>		<b>479.3567</b>

### **3.3 Frame 2A Group B - Concrete Superstructure - 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	lb/day										lb/day					
Off-Road	1.2236	9.9680	10.3561	0.0293		0.4076	0.4076		0.4037	0.4037		3,122.7898	3,122.7898	0.1901		3,127.5420

<b>Total</b>	<b>1.2236</b>	<b>9.9680</b>	<b>10.3561</b>	<b>0.0293</b>		<b>0.4076</b>	<b>0.4076</b>		<b>0.4037</b>	<b>0.4037</b>		<b>3,122.7898</b>	<b>3,122.7898</b>	<b>0.1901</b>		<b>3,127.5420</b>
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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	lb/day										lb/day					
Hauling	7.3000e-003	0.2410	0.0556	7.7000e-004	0.0809	7.1000e-004	0.0816	0.0203	6.8000e-004	0.0210		82.4861	82.4861	3.6100e-003		82.5764
Vendor	0.0327	1.0578	0.2654	2.9700e-003	0.0745	2.1500e-003	0.0766	0.0214	2.0500e-003	0.0235		314.4658	314.4658	0.0126		314.7818
Worker	0.0300	0.0171	0.2322	7.5000e-004	0.0822	4.9000e-004	0.0826	0.0218	4.5000e-004	0.0222		74.9721	74.9721	1.5900e-003		75.0118
<b>Total</b>	<b>0.0700</b>	<b>1.3160</b>	<b>0.5532</b>	<b>4.4900e-003</b>	<b>0.2375</b>	<b>3.3500e-003</b>	<b>0.2408</b>	<b>0.0636</b>	<b>3.1800e-003</b>	<b>0.0668</b>		<b>471.9240</b>	<b>471.9240</b>	<b>0.0178</b>		<b>472.3699</b>

**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	lb/day										lb/day					
Off-Road	0.7747	5.9626	11.0617	0.0293		0.1734	0.1734		0.1734	0.1734	0.0000	3,122.7898	3,122.7898	0.1901		3,127.5420
<b>Total</b>	<b>0.7747</b>	<b>5.9626</b>	<b>11.0617</b>	<b>0.0293</b>		<b>0.1734</b>	<b>0.1734</b>		<b>0.1734</b>	<b>0.1734</b>	<b>0.0000</b>	<b>3,122.7898</b>	<b>3,122.7898</b>	<b>0.1901</b>		<b>3,127.5420</b>

**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	lb/day										lb/day						
Hauling	7.3000e-003	0.2410	0.0556	7.7000e-004	0.0809	7.1000e-004	0.0816	0.0203	6.8000e-004	0.0210		82.4861	82.4861	3.6100e-003			82.5764
Vendor	0.0327	1.0578	0.2654	2.9700e-003	0.0745	2.1500e-003	0.0766	0.0214	2.0500e-003	0.0235		314.4658	314.4658	0.0126			314.7818
Worker	0.0300	0.0171	0.2322	7.5000e-004	0.0822	4.9000e-004	0.0826	0.0218	4.5000e-004	0.0222		74.9721	74.9721	1.5900e-003			75.0118
<b>Total</b>	<b>0.0700</b>	<b>1.3160</b>	<b>0.5532</b>	<b>4.4900e-003</b>	<b>0.2375</b>	<b>3.3500e-003</b>	<b>0.2408</b>	<b>0.0636</b>	<b>3.1800e-003</b>	<b>0.0668</b>		<b>471.9240</b>	<b>471.9240</b>	<b>0.0178</b>			<b>472.3699</b>

**3.4 Frame 2B Group A - Girder Erection - 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	lb/day										lb/day						
Off-Road	0.3739	4.1104	3.7389	6.3000e-003		0.1784	0.1784		0.1642	0.1642		610.5106	610.5106	0.1975			615.4469
<b>Total</b>	<b>0.3739</b>	<b>4.1104</b>	<b>3.7389</b>	<b>6.3000e-003</b>		<b>0.1784</b>	<b>0.1784</b>		<b>0.1642</b>	<b>0.1642</b>		<b>610.5106</b>	<b>610.5106</b>	<b>0.1975</b>			<b>615.4469</b>

**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
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Category	lb/day										lb/day				
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
Vendor	0.0311	0.8996	0.2278	2.2000e-003	0.0542	4.4800e-003	0.0586	0.0156	4.2900e-003	0.0199		233.0391	233.0391	0.0102	233.2947
Worker	0.0348	0.0213	0.2750	8.1000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		80.6006	80.6006	1.9700e-003	80.6500
<b>Total</b>	<b>0.0658</b>	<b>0.9210</b>	<b>0.5029</b>	<b>3.0100e-003</b>	<b>0.1363</b>	<b>4.9900e-003</b>	<b>0.1413</b>	<b>0.0374</b>	<b>4.7600e-003</b>	<b>0.0421</b>		<b>313.6398</b>	<b>313.6398</b>	<b>0.0122</b>	<b>313.9446</b>

**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	lb/day										lb/day					
Off-Road	0.2608	2.8695	4.0506	6.3000e-003		0.1136	0.1136		0.1049	0.1049	0.0000	610.5106	610.5106	0.1975		615.4469
<b>Total</b>	<b>0.2608</b>	<b>2.8695</b>	<b>4.0506</b>	<b>6.3000e-003</b>		<b>0.1136</b>	<b>0.1136</b>		<b>0.1049</b>	<b>0.1049</b>	<b>0.0000</b>	<b>610.5106</b>	<b>610.5106</b>	<b>0.1975</b>		<b>615.4469</b>

**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	lb/day										lb/day					
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
Vendor	0.0311	0.8996	0.2278	2.2000e-003	0.0542	4.4800e-003	0.0586	0.0156	4.2900e-003	0.0199		233.0391	233.0391	0.0102		233.2947

Worker	0.0348	0.0213	0.2750	8.1000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		80.6006	80.6006	1.9700e-003		80.6500
<b>Total</b>	<b>0.0658</b>	<b>0.9210</b>	<b>0.5029</b>	<b>3.0100e-003</b>	<b>0.1363</b>	<b>4.9900e-003</b>	<b>0.1413</b>	<b>0.0374</b>	<b>4.7600e-003</b>	<b>0.0421</b>		<b>313.6398</b>	<b>313.6398</b>	<b>0.0122</b>		<b>313.9446</b>

### 3.4 Frame 2B Group A - Girder Erection - 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	lb/day										lb/day					
Off-Road	0.3543	3.7443	3.6048	6.3000e-003		0.1644	0.1644		0.1513	0.1513		610.4385	610.4385	0.1974		615.3742
<b>Total</b>	<b>0.3543</b>	<b>3.7443</b>	<b>3.6048</b>	<b>6.3000e-003</b>		<b>0.1644</b>	<b>0.1644</b>		<b>0.1513</b>	<b>0.1513</b>		<b>610.4385</b>	<b>610.4385</b>	<b>0.1974</b>		<b>615.3742</b>

#### 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	lb/day										lb/day					
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
Vendor	0.0255	0.8133	0.2050	2.1800e-003	0.0542	1.8000e-003	0.0560	0.0156	1.7200e-003	0.0173		230.8954	230.8954	9.6200e-003		231.1360
Worker	0.0322	0.0191	0.2520	7.8000e-004	0.0822	5.0000e-004	0.0827	0.0218	4.6000e-004	0.0223		77.8011	77.8011	1.7700e-003		77.8453
<b>Total</b>	<b>0.0577</b>	<b>0.8324</b>	<b>0.4570</b>	<b>2.9600e-003</b>	<b>0.1363</b>	<b>2.3000e-003</b>	<b>0.1386</b>	<b>0.0374</b>	<b>2.1800e-003</b>	<b>0.0396</b>		<b>308.6965</b>	<b>308.6965</b>	<b>0.0114</b>		<b>308.9813</b>

**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	lb/day										lb/day						
Off-Road	0.2431	2.5742	3.9014	6.3000e-003		0.1021	0.1021		0.0943	0.0943	0.0000	610.4385	610.4385	0.1974			615.3742
<b>Total</b>	<b>0.2431</b>	<b>2.5742</b>	<b>3.9014</b>	<b>6.3000e-003</b>		<b>0.1021</b>	<b>0.1021</b>		<b>0.0943</b>	<b>0.0943</b>	<b>0.0000</b>	<b>610.4385</b>	<b>610.4385</b>	<b>0.1974</b>			<b>615.3742</b>

**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	lb/day										lb/day						
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
Vendor	0.0255	0.8133	0.2050	2.1800e-003	0.0542	1.8000e-003	0.0560	0.0156	1.7200e-003	0.0173		230.8954	230.8954	9.6200e-003			231.1360
Worker	0.0322	0.0191	0.2520	7.8000e-004	0.0822	5.0000e-004	0.0827	0.0218	4.6000e-004	0.0223		77.8011	77.8011	1.7700e-003			77.8453
<b>Total</b>	<b>0.0577</b>	<b>0.8324</b>	<b>0.4570</b>	<b>2.9600e-003</b>	<b>0.1363</b>	<b>2.3000e-003</b>	<b>0.1386</b>	<b>0.0374</b>	<b>2.1800e-003</b>	<b>0.0396</b>		<b>308.6965</b>	<b>308.6965</b>	<b>0.0114</b>			<b>308.9813</b>

**3.4 Frame 2B Group A - Girder Erection - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day				
Off-Road	0.3164	3.1507	3.4266	6.3000e-003		0.1430	0.1430		0.1316	0.1316	610.2453	610.2453	0.1974		615.1795
<b>Total</b>	<b>0.3164</b>	<b>3.1507</b>	<b>3.4266</b>	<b>6.3000e-003</b>		<b>0.1430</b>	<b>0.1430</b>		<b>0.1316</b>	<b>0.1316</b>	<b>610.2453</b>	<b>610.2453</b>	<b>0.1974</b>		<b>615.1795</b>

**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	lb/day										lb/day					
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
Vendor	0.0238	0.7693	0.1930	2.1600e-003	0.0542	1.5600e-003	0.0557	0.0156	1.4900e-003	0.0171		228.7024	228.7024	9.1900e-003		228.9322
Worker	0.0300	0.0171	0.2322	7.5000e-004	0.0822	4.9000e-004	0.0826	0.0218	4.5000e-004	0.0222		74.9721	74.9721	1.5900e-003		75.0118
<b>Total</b>	<b>0.0538</b>	<b>0.7864</b>	<b>0.4253</b>	<b>2.9100e-003</b>	<b>0.1363</b>	<b>2.0500e-003</b>	<b>0.1384</b>	<b>0.0374</b>	<b>1.9400e-003</b>	<b>0.0393</b>		<b>303.6745</b>	<b>303.6745</b>	<b>0.0108</b>		<b>303.9440</b>

**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	lb/day										lb/day					
Off-Road	0.2188	2.1882	3.7352	6.3000e-003		0.0872	0.0872		0.0806	0.0806	0.0000	610.2453	610.2453	0.1974		615.1795
<b>Total</b>	<b>0.2188</b>	<b>2.1882</b>	<b>3.7352</b>	<b>6.3000e-003</b>		<b>0.0872</b>	<b>0.0872</b>		<b>0.0806</b>	<b>0.0806</b>	<b>0.0000</b>	<b>610.2453</b>	<b>610.2453</b>	<b>0.1974</b>		<b>615.1795</b>

**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	lb/day										lb/day						
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
Vendor	0.0238	0.7693	0.1930	2.1600e-003	0.0542	1.5600e-003	0.0557	0.0156	1.4900e-003	0.0171		228.7024	228.7024	9.1900e-003			228.9322
Worker	0.0300	0.0171	0.2322	7.5000e-004	0.0822	4.9000e-004	0.0826	0.0218	4.5000e-004	0.0222		74.9721	74.9721	1.5900e-003			75.0118
<b>Total</b>	<b>0.0538</b>	<b>0.7864</b>	<b>0.4253</b>	<b>2.9100e-003</b>	<b>0.1363</b>	<b>2.0500e-003</b>	<b>0.1384</b>	<b>0.0374</b>	<b>1.9400e-003</b>	<b>0.0393</b>		<b>303.6745</b>	<b>303.6745</b>	<b>0.0108</b>			<b>303.9440</b>

**3.5 Frame 2B Group B - Concrete Deck Placement - 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	lb/day										lb/day						
Off-Road	1.4537	12.8895	10.9664	0.0301		0.5504	0.5504		0.5443	0.5443		3,199.2873	3,199.2873	0.2298			3,205.0315
<b>Total</b>	<b>1.4537</b>	<b>12.8895</b>	<b>10.9664</b>	<b>0.0301</b>		<b>0.5504</b>	<b>0.5504</b>		<b>0.5443</b>	<b>0.5443</b>		<b>3,199.2873</b>	<b>3,199.2873</b>	<b>0.2298</b>			<b>3,205.0315</b>

**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	lb/day										lb/day					
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
Vendor	0.0427	1.2370	0.3133	3.0300e-003	0.0745	6.1600e-003	0.0806	0.0214	5.8900e-003	0.0273		320.4288	320.4288	0.0141		320.7802
Worker	0.0348	0.0213	0.2750	8.1000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		80.6006	80.6006	1.9700e-003		80.6500
<b>Total</b>	<b>0.0775</b>	<b>1.2584</b>	<b>0.5883</b>	<b>3.8400e-003</b>	<b>0.1566</b>	<b>6.6700e-003</b>	<b>0.1633</b>	<b>0.0432</b>	<b>6.3600e-003</b>	<b>0.0496</b>		<b>401.0294</b>	<b>401.0294</b>	<b>0.0160</b>		<b>401.4302</b>

**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	lb/day										lb/day					
Off-Road	0.8666	7.5660	11.7182	0.0301		0.2211	0.2211		0.2211	0.2211	0.0000	3,199.2873	3,199.2873	0.2298		3,205.0315
<b>Total</b>	<b>0.8666</b>	<b>7.5660</b>	<b>11.7182</b>	<b>0.0301</b>		<b>0.2211</b>	<b>0.2211</b>		<b>0.2211</b>	<b>0.2211</b>	<b>0.0000</b>	<b>3,199.2873</b>	<b>3,199.2873</b>	<b>0.2298</b>		<b>3,205.0315</b>

**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	lb/day										lb/day					

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
Vendor	0.0427	1.2370	0.3133	3.0300e-003	0.0745	6.1600e-003	0.0806	0.0214	5.8900e-003	0.0273		320.4288	320.4288	0.0141		320.7802
Worker	0.0348	0.0213	0.2750	8.1000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		80.6006	80.6006	1.9700e-003		80.6500
<b>Total</b>	<b>0.0775</b>	<b>1.2584</b>	<b>0.5883</b>	<b>3.8400e-003</b>	<b>0.1566</b>	<b>6.6700e-003</b>	<b>0.1633</b>	<b>0.0432</b>	<b>6.3600e-003</b>	<b>0.0496</b>		<b>401.0294</b>	<b>401.0294</b>	<b>0.0160</b>		<b>401.4302</b>

### 3.5 Frame 2B Group B - Concrete Deck Placement - 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	lb/day										lb/day					
Off-Road	1.3436	11.4622	10.9155	0.0301		0.4818	0.4818		0.4759	0.4759		3,199.2837	3,199.2837	0.2213		3,204.8151
<b>Total</b>	<b>1.3436</b>	<b>11.4622</b>	<b>10.9155</b>	<b>0.0301</b>		<b>0.4818</b>	<b>0.4818</b>		<b>0.4759</b>	<b>0.4759</b>		<b>3,199.2837</b>	<b>3,199.2837</b>	<b>0.2213</b>		<b>3,204.8151</b>

#### 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	lb/day										lb/day					
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
Vendor	0.0351	1.1183	0.2818	3.0000e-003	0.0745	2.4700e-003	0.0770	0.0214	2.3600e-003	0.0238		317.4812	317.4812	0.0132		317.8120
Worker	0.0322	0.0191	0.2520	7.8000e-004	0.0822	5.0000e-004	0.0827	0.0218	4.6000e-004	0.0223		77.8011	77.8011	1.7700e-003		77.8453

<b>Total</b>	<b>0.0673</b>	<b>1.1373</b>	<b>0.5338</b>	<b>3.7800e-003</b>	<b>0.1566</b>	<b>2.9700e-003</b>	<b>0.1596</b>	<b>0.0432</b>	<b>2.8200e-003</b>	<b>0.0461</b>		<b>395.2823</b>	<b>395.2823</b>	<b>0.0150</b>		<b>395.6573</b>
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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	lb/day										lb/day					
Off-Road	0.8165	6.6478	11.6825	0.0301		0.1961	0.1961		0.1961	0.1961	0.0000	3,199.2837	3,199.2837	0.2213		3,204.8151
<b>Total</b>	<b>0.8165</b>	<b>6.6478</b>	<b>11.6825</b>	<b>0.0301</b>		<b>0.1961</b>	<b>0.1961</b>		<b>0.1961</b>	<b>0.1961</b>	<b>0.0000</b>	<b>3,199.2837</b>	<b>3,199.2837</b>	<b>0.2213</b>		<b>3,204.8151</b>

**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	lb/day										lb/day					
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
Vendor	0.0351	1.1183	0.2818	3.0000e-003	0.0745	2.4700e-003	0.0770	0.0214	2.3600e-003	0.0238		317.4812	317.4812	0.0132		317.8120
Worker	0.0322	0.0191	0.2520	7.8000e-004	0.0822	5.0000e-004	0.0827	0.0218	4.6000e-004	0.0223		77.8011	77.8011	1.7700e-003		77.8453
<b>Total</b>	<b>0.0673</b>	<b>1.1373</b>	<b>0.5338</b>	<b>3.7800e-003</b>	<b>0.1566</b>	<b>2.9700e-003</b>	<b>0.1596</b>	<b>0.0432</b>	<b>2.8200e-003</b>	<b>0.0461</b>		<b>395.2823</b>	<b>395.2823</b>	<b>0.0150</b>		<b>395.6573</b>

**3.5 Frame 2B Group B - Concrete Deck Placement - 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	lb/day										lb/day					
Off-Road	1.2601	10.2748	10.8706	0.0301		0.4242	0.4242		0.4190	0.4190		3,199.2873	3,199.2873	0.2148		3,204.6580
<b>Total</b>	<b>1.2601</b>	<b>10.2748</b>	<b>10.8706</b>	<b>0.0301</b>		<b>0.4242</b>	<b>0.4242</b>		<b>0.4190</b>	<b>0.4190</b>		<b>3,199.2873</b>	<b>3,199.2873</b>	<b>0.2148</b>		<b>3,204.6580</b>

**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	lb/day										lb/day					
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
Vendor	0.0327	1.0578	0.2654	2.9700e-003	0.0745	2.1500e-003	0.0766	0.0214	2.0500e-003	0.0235		314.4658	314.4658	0.0126		314.7818
Worker	0.0300	0.0171	0.2322	7.5000e-004	0.0822	4.9000e-004	0.0826	0.0218	4.5000e-004	0.0222		74.9721	74.9721	1.5900e-003		75.0118
<b>Total</b>	<b>0.0627</b>	<b>1.0749</b>	<b>0.4976</b>	<b>3.7200e-003</b>	<b>0.1566</b>	<b>2.6400e-003</b>	<b>0.1593</b>	<b>0.0432</b>	<b>2.5000e-003</b>	<b>0.0457</b>		<b>389.4379</b>	<b>389.4379</b>	<b>0.0142</b>		<b>389.7935</b>

**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	lb/day										lb/day					

Off-Road	0.7844	6.0047	11.6611	0.0301		0.1747	0.1747		0.1747	0.1747	0.0000	3,199.2873	3,199.2873	0.2148		3,204.6580
<b>Total</b>	<b>0.7844</b>	<b>6.0047</b>	<b>11.6611</b>	<b>0.0301</b>		<b>0.1747</b>	<b>0.1747</b>		<b>0.1747</b>	<b>0.1747</b>	<b>0.0000</b>	<b>3,199.2873</b>	<b>3,199.2873</b>	<b>0.2148</b>		<b>3,204.6580</b>

**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	lb/day										lb/day					
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
Vendor	0.0327	1.0578	0.2654	2.9700e-003	0.0745	2.1500e-003	0.0766	0.0214	2.0500e-003	0.0235		314.4658	314.4658	0.0126		314.7818
Worker	0.0300	0.0171	0.2322	7.5000e-004	0.0822	4.9000e-004	0.0826	0.0218	4.5000e-004	0.0222		74.9721	74.9721	1.5900e-003		75.0118
<b>Total</b>	<b>0.0627</b>	<b>1.0749</b>	<b>0.4976</b>	<b>3.7200e-003</b>	<b>0.1566</b>	<b>2.6400e-003</b>	<b>0.1593</b>	<b>0.0432</b>	<b>2.5000e-003</b>	<b>0.0457</b>		<b>389.4379</b>	<b>389.4379</b>	<b>0.0142</b>		<b>389.7935</b>

**4.0 Operational Detail - Mobile**

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**5.0 Energy Detail**

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**6.0 Area Detail**

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**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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## 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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## 10.0 Stationary Equipment

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### 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

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## **CalEEMod Output – Non-Guideway Construction Work**

Eastridge to BART - Non Guideway Activities - Santa Clara County, Summer

**Eastridge to BART - Non Guideway Activities**  
**Santa Clara County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unenclosed Parking Structure	364.32	1000sqft	8.36	364,320.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	4			<b>Operational Year</b>	2025
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Construction Phase - Schedule information from Chris Adams of BKF

Off-road Equipment - Based on information provided by Chris Adams of BKF

Off-road Equipment - Based on information provided by Chris Adams of BKF

Off-road Equipment - Based on information provided by Chris Adams of BKF. Other construction equipment includes any equipment over 150 hp that

cannot be Tier 4 or a newer concrete mixer

Off-road Equipment - Based on information provided by Chris Adams of BKF. Other construction equipment includes any equipment over 150 hp that

cannot be Tier 4 or a newer concrete mixer

Off-road Equipment - Based on information provided by Chris Adams of BKF

Off-road Equipment - Based on information provided by Chris Adams of BKF

Trips and VMT - Vendor trips based on equipment numbers from Chris Adams. No material imported or exported, so no hauling trips included.

Grading - No soil imported or exported. Soil would occur during guideway construction.

Construction Off-road Equipment Mitigation - VTA Specifications - All equipment less than 175 horsepower will be Tier 4

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	10.00	45.00
tblConstructionPhase	NumDays	10.00	110.00
tblConstructionPhase	NumDays	20.00	90.00
tblConstructionPhase	NumDays	230.00	220.00
tblConstructionPhase	NumDays	20.00	100.00
tblOffRoadEquipment	HorsePower	130.00	150.00
tblOffRoadEquipment	HorsePower	132.00	200.00
tblOffRoadEquipment	HorsePower	80.00	200.00
tblOffRoadEquipment	HorsePower	97.00	200.00
tblOffRoadEquipment	HorsePower	97.00	200.00
tblOffRoadEquipment	HorsePower	97.00	200.00
tblOffRoadEquipment	HorsePower	402.00	150.00
tblOffRoadEquipment	HorsePower	402.00	150.00
tblOffRoadEquipment	HorsePower	172.00	250.00
tblOffRoadEquipment	HorsePower	172.00	250.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	PhaseName		Utilities (PG&E) II
tblOffRoadEquipment	PhaseName		Systems, Final Paving
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	60.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	WorkerTripNumber	10.00	24.00
tblTripsAndVMT	WorkerTripNumber	20.00	24.00
tblTripsAndVMT	WorkerTripNumber	15.00	24.00
tblTripsAndVMT	WorkerTripNumber	153.00	24.00
tblTripsAndVMT	WorkerTripNumber	15.00	24.00

## 2.0 Emissions Summary

### 2.1 Overall Construction (Maximum Daily Emission)

#### 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	lb/day										lb/day					

2019	2.7053	28.8408	20.7346	0.0491	0.2513	1.1417	1.3930	0.0679	1.0506	1.1185	0.0000	4,879.0314	4,879.0314	1.4229	0.0000	4,914.6029
2020	1.8704	22.1663	10.1960	0.0417	0.2378	0.7078	0.9456	0.0640	0.6513	0.7153	0.0000	4,052.6198	4,052.6198	1.2040	0.0000	4,082.7201
2022	1.3121	10.1054	17.3049	0.0289	0.2649	0.4440	0.7088	0.0718	0.4085	0.4803	0.0000	2,829.1959	2,829.1959	0.7797	0.0000	2,848.6875
2023	1.2748	9.2260	17.3413	0.0288	0.2649	0.4104	0.6725	0.0718	0.3776	0.4468	0.0000	2,814.7513	2,814.7513	0.7778	0.0000	2,834.1957
<b>Maximum</b>	<b>2.7053</b>	<b>28.8408</b>	<b>20.7346</b>	<b>0.0491</b>	<b>0.2649</b>	<b>1.1417</b>	<b>1.3930</b>	<b>0.0718</b>	<b>1.0506</b>	<b>1.1185</b>	<b>0.0000</b>	<b>4,879.0314</b>	<b>4,879.0314</b>	<b>1.4229</b>	<b>0.0000</b>	<b>4,914.6029</b>

### 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	lb/day										lb/day					
2019	1.6496	18.5278	22.2386	0.0491	0.2513	0.5730	0.8243	0.0679	0.5300	0.5979	0.0000	4,879.0314	4,879.0314	1.4229	0.0000	4,914.6029
2020	1.8704	22.1663	10.1960	0.0417	0.2378	0.7078	0.9456	0.0640	0.6513	0.7153	0.0000	4,052.6198	4,052.6198	1.2040	0.0000	4,082.7201
2022	0.4034	2.3096	19.3968	0.0289	0.2649	0.0433	0.3082	0.0718	0.0432	0.1149	0.0000	2,829.1959	2,829.1959	0.7797	0.0000	2,848.6875
2023	0.3913	2.0744	19.3302	0.0288	0.2649	0.0422	0.3071	0.0718	0.0421	0.1139	0.0000	2,814.7513	2,814.7513	0.7778	0.0000	2,834.1957
<b>Maximum</b>	<b>1.8704</b>	<b>22.1663</b>	<b>22.2386</b>	<b>0.0491</b>	<b>0.2649</b>	<b>0.7078</b>	<b>0.9456</b>	<b>0.0718</b>	<b>0.6513</b>	<b>0.7153</b>	<b>0.0000</b>	<b>4,879.0314</b>	<b>4,879.0314</b>	<b>1.4229</b>	<b>0.0000</b>	<b>4,914.6029</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>39.76</b>	<b>35.91</b>	<b>-8.52</b>	<b>0.00</b>	<b>0.00</b>	<b>49.47</b>	<b>35.88</b>	<b>0.00</b>	<b>49.09</b>	<b>44.15</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

### 3.0 Construction Detail

#### Construction Phase



Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Utilities (PG&E) I	Site Preparation	5/20/2019	7/19/2019	5	45	
2	Utilities (PG&E) II	Site Preparation	7/20/2019	12/20/2019	5	110	
3	Clearing, Roadway Widening, Retaining Walls @ Fastridge	Grading	1/1/2020	5/5/2020	5	90	
4	Station Furnishings, Plinths, Median Drainage, Curb Work	Building Construction	7/1/2022	5/4/2023	5	220	
5	Systems, Final Paving	Paving	5/5/2023	9/21/2023	5	100	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 8.36**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Utilities (PG&E) I	Rubber Tired Dozers	0	8.00	247	0.40
Utilities (PG&E) I	Tractors/Loaders/Backhoes	4	8.00	200	0.37
Utilities (PG&E) II	Off-Highway Trucks	4	8.00	150	0.38
Utilities (PG&E) II	Rubber Tired Dozers	0	8.00	247	0.40
Utilities (PG&E) II	Tractors/Loaders/Backhoes	4	8.00	200	0.37
Clearing, Roadway Widening, Retaining Walls @ Fastridge	Excavators	0	8.00	158	0.38
Clearing, Roadway Widening, Retaining Walls @ Fastridge	Graders	0	8.00	187	0.41
Clearing, Roadway Widening, Retaining Walls @ Fastridge	Rubber Tired Dozers	0	8.00	247	0.40
Clearing, Roadway Widening, Retaining Walls @ Fastridge	Tractors/Loaders/Backhoes	6	8.00	200	0.37
Station Furnishings, Plinths, Median Drainage, Curb Work	Cement and Mortar Mixers	0	8.00	9	0.56
Station Furnishings, Plinths, Median Drainage, Curb Work	Cranes	0	7.00	231	0.29
Station Furnishings, Plinths, Median Drainage, Curb Work	Forklifts	0	8.00	89	0.20
Station Furnishings, Plinths, Median Drainage, Curb Work	Generator Sets	0	8.00	84	0.74
Station Furnishings, Plinths, Median Drainage, Curb Work	Off-Highway Trucks	5	8.00	150	0.38
Station Furnishings, Plinths, Median Drainage, Curb Work	Other Construction Equipment	5	8.00	250	0.42
Station Furnishings, Plinths, Median Drainage, Curb Work	Tractors/Loaders/Backhoes	0	7.00	97	0.37

Station Furnishings, Plinths, Median	Welders	0	8.00	46	0.45
Drainage, Curb Work	Other Construction Equipment	2	8.00	250	0.42
Systems, Final Paving	Pavers	4	8.00	150	0.42
Systems, Final Paving	Paving Equipment	0	8.00	200	0.36
Systems, Final Paving	Rollers	0	8.00	200	0.38

### Trips and VMT

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
Utilities (PG&E) I	4	24.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Utilities (PG&E) II	8	24.00	8.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Clearing, Roadway	6	24.00	6.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Widening, Retaining										
Station Furnishings, Plinths, Median	10	24.00	10.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Systems, Final Paving	6	24.00	6.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

### 3.2 Utilities (PG&E) I - 2019

#### 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	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.2785	16.4282	6.3705	0.0254		0.5324	0.5324		0.4898	0.4898		2,513.2788	2,513.2788	0.7952		2,533.1581
<b>Total</b>	<b>1.2785</b>	<b>16.4282</b>	<b>6.3705</b>	<b>0.0254</b>	<b>0.0000</b>	<b>0.5324</b>	<b>0.5324</b>	<b>0.0000</b>	<b>0.4898</b>	<b>0.4898</b>		<b>2,513.2788</b>	<b>2,513.2788</b>	<b>0.7952</b>		<b>2,533.1581</b>

**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	lb/day										lb/day					
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
Vendor	0.0193	0.4980	0.1276	1.1100e-003	0.0271	3.6100e-003	0.0307	7.8000e-003	3.4500e-003	0.0113		117.2149	117.2149	5.5600e-003		117.3539
Worker	0.0913	0.0580	0.7343	2.0000e-003	0.1972	1.2600e-003	0.1984	0.0523	1.1600e-003	0.0535		199.6748	199.6748	5.4100e-003		199.8099
<b>Total</b>	<b>0.1105</b>	<b>0.5561</b>	<b>0.8620</b>	<b>3.1100e-003</b>	<b>0.2242</b>	<b>4.8700e-003</b>	<b>0.2291</b>	<b>0.0601</b>	<b>4.6100e-003</b>	<b>0.0647</b>		<b>316.8896</b>	<b>316.8896</b>	<b>0.0110</b>		<b>317.1638</b>

**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	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.2785	16.4282	6.3705	0.0254		0.5324	0.5324		0.4898	0.4898	0.0000	2,513.2788	2,513.2788	0.7952		2,533.1581
<b>Total</b>	<b>1.2785</b>	<b>16.4282</b>	<b>6.3705</b>	<b>0.0254</b>	<b>0.0000</b>	<b>0.5324</b>	<b>0.5324</b>	<b>0.0000</b>	<b>0.4898</b>	<b>0.4898</b>	<b>0.0000</b>	<b>2,513.2788</b>	<b>2,513.2788</b>	<b>0.7952</b>		<b>2,533.1581</b>

**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
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Category	lb/day										lb/day					
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
Vendor	0.0193	0.4980	0.1276	1.1100e-003	0.0271	3.6100e-003	0.0307	7.8000e-003	3.4500e-003	0.0113		117.2149	117.2149	5.5600e-003		117.3539
Worker	0.0913	0.0580	0.7343	2.0000e-003	0.1972	1.2600e-003	0.1984	0.0523	1.1600e-003	0.0535		199.6748	199.6748	5.4100e-003		199.8099
<b>Total</b>	<b>0.1105</b>	<b>0.5561</b>	<b>0.8620</b>	<b>3.1100e-003</b>	<b>0.2242</b>	<b>4.8700e-003</b>	<b>0.2291</b>	<b>0.0601</b>	<b>4.6100e-003</b>	<b>0.0647</b>		<b>316.8896</b>	<b>316.8896</b>	<b>0.0110</b>		<b>317.1638</b>

### 3.3 Utilities (PG&E) II - 2019

#### 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	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	2.5755	27.7867	19.7450	0.0449		1.1332	1.1332		1.0426	1.0426		4,444.9270	4,444.9270	1.4063		4,480.0851
<b>Total</b>	<b>2.5755</b>	<b>27.7867</b>	<b>19.7450</b>	<b>0.0449</b>	<b>0.0000</b>	<b>1.1332</b>	<b>1.1332</b>	<b>0.0000</b>	<b>1.0426</b>	<b>1.0426</b>		<b>4,444.9270</b>	<b>4,444.9270</b>	<b>1.4063</b>		<b>4,480.0851</b>

#### 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	lb/day										lb/day					
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
Vendor	0.0385	0.9961	0.2552	2.2200e-003	0.0542	7.2100e-003	0.0614	0.0156	6.9000e-003	0.0225		234.4297	234.4297	0.0111		234.7079
Worker	0.0913	0.0580	0.7343	2.0000e-003	0.1972	1.2600e-003	0.1984	0.0523	1.1600e-003	0.0535		199.6748	199.6748	5.4100e-003		199.8099

<b>Total</b>	<b>0.1298</b>	<b>1.0541</b>	<b>0.9896</b>	<b>4.2200e-003</b>	<b>0.2513</b>	<b>8.4700e-003</b>	<b>0.2598</b>	<b>0.0679</b>	<b>8.0600e-003</b>	<b>0.0759</b>		<b>434.1045</b>	<b>434.1045</b>	<b>0.0165</b>		<b>434.5178</b>
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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
<b>Category</b>	<b>lb/day</b>										<b>lb/day</b>					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.5198	17.4737	21.2490	0.0449		0.5645	0.5645		0.5220	0.5220	0.0000	4,444.9269	4,444.9269	1.4063		4,480.0851
<b>Total</b>	<b>1.5198</b>	<b>17.4737</b>	<b>21.2490</b>	<b>0.0449</b>	<b>0.0000</b>	<b>0.5645</b>	<b>0.5645</b>	<b>0.0000</b>	<b>0.5220</b>	<b>0.5220</b>	<b>0.0000</b>	<b>4,444.9269</b>	<b>4,444.9269</b>	<b>1.4063</b>		<b>4,480.0851</b>

**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
<b>Category</b>	<b>lb/day</b>										<b>lb/day</b>					
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
Vendor	0.0385	0.9961	0.2552	2.2200e-003	0.0542	7.2100e-003	0.0614	0.0156	6.9000e-003	0.0225		234.4297	234.4297	0.0111		234.7079
Worker	0.0913	0.0580	0.7343	2.0000e-003	0.1972	1.2600e-003	0.1984	0.0523	1.1600e-003	0.0535		199.6748	199.6748	5.4100e-003		199.8099
<b>Total</b>	<b>0.1298</b>	<b>1.0541</b>	<b>0.9896</b>	<b>4.2200e-003</b>	<b>0.2513</b>	<b>8.4700e-003</b>	<b>0.2598</b>	<b>0.0679</b>	<b>8.0600e-003</b>	<b>0.0759</b>		<b>434.1045</b>	<b>434.1045</b>	<b>0.0165</b>		<b>434.5178</b>

**3.4 Clearing, Roadway Widening, Retaining Walls @ Eastridge -  
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	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.7637	21.4404	9.3651	0.0381		0.7032	0.7032		0.6470	0.6470		3,684.3989	3,684.3989	1.1916		3,714.1892
<b>Total</b>	<b>1.7637</b>	<b>21.4404</b>	<b>9.3651</b>	<b>0.0381</b>	<b>0.0000</b>	<b>0.7032</b>	<b>0.7032</b>	<b>0.0000</b>	<b>0.6470</b>	<b>0.6470</b>		<b>3,684.3989</b>	<b>3,684.3989</b>	<b>1.1916</b>		<b>3,714.1892</b>

**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	lb/day										lb/day					
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
Vendor	0.0233	0.6747	0.1709	1.6500e-003	0.0406	3.3600e-003	0.0440	0.0117	3.2200e-003	0.0149		174.7793	174.7793	7.6700e-003		174.9710
Worker	0.0834	0.0512	0.6601	1.9400e-003	0.1972	1.2300e-003	0.1984	0.0523	1.1300e-003	0.0534		193.4415	193.4415	4.7300e-003		193.5599
<b>Total</b>	<b>0.1067</b>	<b>0.7260</b>	<b>0.8310</b>	<b>3.5900e-003</b>	<b>0.2378</b>	<b>4.5900e-003</b>	<b>0.2424</b>	<b>0.0640</b>	<b>4.3500e-003</b>	<b>0.0683</b>		<b>368.2209</b>	<b>368.2209</b>	<b>0.0124</b>		<b>368.5309</b>

**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	lb/day										lb/day					

Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.7637	21.4404	9.3651	0.0381		0.7032	0.7032		0.6470	0.6470	0.0000	3,684.3989	3,684.3989	1.1916		3,714.1892
<b>Total</b>	<b>1.7637</b>	<b>21.4404</b>	<b>9.3651</b>	<b>0.0381</b>	<b>0.0000</b>	<b>0.7032</b>	<b>0.7032</b>	<b>0.0000</b>	<b>0.6470</b>	<b>0.6470</b>	<b>0.0000</b>	<b>3,684.3989</b>	<b>3,684.3989</b>	<b>1.1916</b>		<b>3,714.1892</b>

**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	lb/day										lb/day					
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
Vendor	0.0233	0.6747	0.1709	1.6500e-003	0.0406	3.3600e-003	0.0440	0.0117	3.2200e-003	0.0149		174.7793	174.7793	7.6700e-003		174.9710
Worker	0.0834	0.0512	0.6601	1.9400e-003	0.1972	1.2300e-003	0.1984	0.0523	1.1300e-003	0.0534		193.4415	193.4415	4.7300e-003		193.5599
<b>Total</b>	<b>0.1067</b>	<b>0.7260</b>	<b>0.8310</b>	<b>3.5900e-003</b>	<b>0.2378</b>	<b>4.5900e-003</b>	<b>0.2424</b>	<b>0.0640</b>	<b>4.3500e-003</b>	<b>0.0683</b>		<b>368.2209</b>	<b>368.2209</b>	<b>0.0124</b>		<b>368.5309</b>

**3.5 Station Furnishings, Plinths, Median Drainage, Curb Work -**

**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	lb/day										lb/day					
Off-Road	1.2103	9.1026	16.5063	0.0244		0.4408	0.4408		0.4056	0.4056		2,363.3849	2,363.3849	0.7644		2,382.4941
<b>Total</b>	<b>1.2103</b>	<b>9.1026</b>	<b>16.5063</b>	<b>0.0244</b>		<b>0.4408</b>	<b>0.4408</b>		<b>0.4056</b>	<b>0.4056</b>		<b>2,363.3849</b>	<b>2,363.3849</b>	<b>0.7644</b>		<b>2,382.4941</b>

**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	lb/day										lb/day					
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
Vendor	0.0297	0.9617	0.2413	2.7000e-003	0.0677	1.9500e-003	0.0697	0.0195	1.8700e-003	0.0214		285.8780	285.8780	0.0115		286.1652
Worker	0.0720	0.0411	0.5573	1.8000e-003	0.1972	1.1700e-003	0.1983	0.0523	1.0800e-003	0.0534		179.9330	179.9330	3.8100e-003		180.0282
<b>Total</b>	<b>0.1018</b>	<b>1.0027</b>	<b>0.7986</b>	<b>4.5000e-003</b>	<b>0.2649</b>	<b>3.1200e-003</b>	<b>0.2680</b>	<b>0.0718</b>	<b>2.9500e-003</b>	<b>0.0747</b>		<b>465.8110</b>	<b>465.8110</b>	<b>0.0153</b>		<b>466.1935</b>

**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	lb/day										lb/day					
Off-Road	0.3016	1.3069	18.5982	0.0244		0.0402	0.0402		0.0402	0.0402	0.0000	2,363.3849	2,363.3849	0.7644		2,382.4941
<b>Total</b>	<b>0.3016</b>	<b>1.3069</b>	<b>18.5982</b>	<b>0.0244</b>		<b>0.0402</b>	<b>0.0402</b>		<b>0.0402</b>	<b>0.0402</b>	<b>0.0000</b>	<b>2,363.3849</b>	<b>2,363.3849</b>	<b>0.7644</b>		<b>2,382.4941</b>

**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
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Category	lb/day										lb/day				
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
Vendor	0.0297	0.9617	0.2413	2.7000e-003	0.0677	1.9500e-003	0.0697	0.0195	1.8700e-003	0.0214		285.8780	285.8780	0.0115	286.1652
Worker	0.0720	0.0411	0.5573	1.8000e-003	0.1972	1.1700e-003	0.1983	0.0523	1.0800e-003	0.0534		179.9330	179.9330	3.8100e-003	180.0282
<b>Total</b>	<b>0.1018</b>	<b>1.0027</b>	<b>0.7986</b>	<b>4.5000e-003</b>	<b>0.2649</b>	<b>3.1200e-003</b>	<b>0.2680</b>	<b>0.0718</b>	<b>2.9500e-003</b>	<b>0.0747</b>		<b>465.8110</b>	<b>465.8110</b>	<b>0.0153</b>	<b>466.1935</b>

**3.5 Station Furnishings, Plinths, Median Drainage, Curb Work -  
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	lb/day										lb/day					
Off-Road	1.1851	8.4585	16.6093	0.0244		0.4056	0.4056		0.3732	0.3732		2,363.9399	2,363.9399	0.7646		2,383.0536
<b>Total</b>	<b>1.1851</b>	<b>8.4585</b>	<b>16.6093</b>	<b>0.0244</b>		<b>0.4056</b>	<b>0.4056</b>		<b>0.3732</b>	<b>0.3732</b>		<b>2,363.9399</b>	<b>2,363.9399</b>	<b>0.7646</b>		<b>2,383.0536</b>

**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	lb/day										lb/day					
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
Vendor	0.0224	0.7305	0.2179	2.6200e-003	0.0677	8.5000e-004	0.0686	0.0195	8.1000e-004	0.0203		277.7201	277.7201	9.8100e-003		277.9654
Worker	0.0673	0.0370	0.5141	1.7400e-003	0.1972	1.1500e-003	0.1983	0.0523	1.0600e-003	0.0534		173.0913	173.0913	3.4200e-003		173.1768

<b>Total</b>	<b>0.0897</b>	<b>0.7675</b>	<b>0.7320</b>	<b>4.3600e-003</b>	<b>0.2649</b>	<b>2.0000e-003</b>	<b>0.2669</b>	<b>0.0718</b>	<b>1.8700e-003</b>	<b>0.0737</b>		<b>450.8114</b>	<b>450.8114</b>	<b>0.0132</b>		<b>451.1421</b>
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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
<b>Category</b>	<b>lb/day</b>										<b>lb/day</b>					
Off-Road	0.3016	1.3069	18.5982	0.0244		0.0402	0.0402		0.0402	0.0402	0.0000	2,363.9399	2,363.9399	0.7646		2,383.0536
<b>Total</b>	<b>0.3016</b>	<b>1.3069</b>	<b>18.5982</b>	<b>0.0244</b>		<b>0.0402</b>	<b>0.0402</b>		<b>0.0402</b>	<b>0.0402</b>	<b>0.0000</b>	<b>2,363.9399</b>	<b>2,363.9399</b>	<b>0.7646</b>		<b>2,383.0536</b>

**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
<b>Category</b>	<b>lb/day</b>										<b>lb/day</b>					
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
Vendor	0.0224	0.7305	0.2179	2.6200e-003	0.0677	8.5000e-004	0.0686	0.0195	8.1000e-004	0.0203		277.7201	277.7201	9.8100e-003		277.9654
Worker	0.0673	0.0370	0.5141	1.7400e-003	0.1972	1.1500e-003	0.1983	0.0523	1.0600e-003	0.0534		173.0913	173.0913	3.4200e-003		173.1768
<b>Total</b>	<b>0.0897</b>	<b>0.7675</b>	<b>0.7320</b>	<b>4.3600e-003</b>	<b>0.2649</b>	<b>2.0000e-003</b>	<b>0.2669</b>	<b>0.0718</b>	<b>1.8700e-003</b>	<b>0.0737</b>		<b>450.8114</b>	<b>450.8114</b>	<b>0.0132</b>		<b>451.1421</b>

**3.6 Systems, Final 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	lb/day										lb/day					
Off-Road	0.8859	8.6898	13.3068	0.0217		0.4088	0.4088		0.3761	0.3761		2,101.0032	2,101.0032	0.6795		2,117.9908
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.8859</b>	<b>8.6898</b>	<b>13.3068</b>	<b>0.0217</b>		<b>0.4088</b>	<b>0.4088</b>		<b>0.3761</b>	<b>0.3761</b>		<b>2,101.0032</b>	<b>2,101.0032</b>	<b>0.6795</b>		<b>2,117.9908</b>

**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	lb/day										lb/day					
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
Vendor	0.0134	0.4383	0.1308	1.5700e-003	0.0406	5.1000e-004	0.0411	0.0117	4.8000e-004	0.0122		166.6321	166.6321	5.8900e-003		166.7792
Worker	0.0673	0.0370	0.5141	1.7400e-003	0.1972	1.1500e-003	0.1983	0.0523	1.0600e-003	0.0534		173.0913	173.0913	3.4200e-003		173.1768
<b>Total</b>	<b>0.0807</b>	<b>0.4753</b>	<b>0.6448</b>	<b>3.3100e-003</b>	<b>0.2378</b>	<b>1.6600e-003</b>	<b>0.2394</b>	<b>0.0640</b>	<b>1.5400e-003</b>	<b>0.0655</b>		<b>339.7233</b>	<b>339.7233</b>	<b>9.3100e-003</b>		<b>339.9560</b>

**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	lb/day										lb/day					

Off-Road	0.2667	1.1556	16.4447	0.0217		0.0356	0.0356		0.0356	0.0356	0.0000	2,101.0032	2,101.0032	0.6795		2,117.9908
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.2667</b>	<b>1.1556</b>	<b>16.4447</b>	<b>0.0217</b>		<b>0.0356</b>	<b>0.0356</b>		<b>0.0356</b>	<b>0.0356</b>	<b>0.0000</b>	<b>2,101.0032</b>	<b>2,101.0032</b>	<b>0.6795</b>		<b>2,117.9908</b>

**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	lb/day										lb/day					
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
Vendor	0.0134	0.4383	0.1308	1.5700e-003	0.0406	5.1000e-004	0.0411	0.0117	4.8000e-004	0.0122		166.6321	166.6321	5.8900e-003		166.7792
Worker	0.0673	0.0370	0.5141	1.7400e-003	0.1972	1.1500e-003	0.1983	0.0523	1.0600e-003	0.0534		173.0913	173.0913	3.4200e-003		173.1768
<b>Total</b>	<b>0.0807</b>	<b>0.4753</b>	<b>0.6448</b>	<b>3.3100e-003</b>	<b>0.2378</b>	<b>1.6600e-003</b>	<b>0.2394</b>	<b>0.0640</b>	<b>1.5400e-003</b>	<b>0.0655</b>		<b>339.7233</b>	<b>339.7233</b>	<b>9.3100e-003</b>		<b>339.9560</b>

Eastridge to BART - Non Guideway Activities - Santa Clara County, Annual

**Eastridge to BART - Non Guideway Activities  
Santa Clara County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unenclosed Parking Structure	364.32	1000sqft	8.36	364,320.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	4			<b>Operational Year</b>	2025
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Construction Phase - Schedule information from Chris Adams of BKF

Off-road Equipment - Based on information provided by Chris Adams of BKF

Off-road Equipment - Based on information provided by Chris Adams of BKF

Off-road Equipment - Based on information provided by Chris Adams of BKF. Other construction equipment includes any equipment over 150 hp that cannot be Tier 4 or a diesel concrete mixer.

Off-road Equipment - Based on information provided by Chris Adams of BKF. Other construction equipment includes any equipment over 150 hp that cannot be Tier 4 or a diesel concrete mixer.

Off-road Equipment - Based on information provided by Chris Adams of BKF

Off-road Equipment - Based on information provided by Chris Adams of BKF

Trips and VMT - Vendor trips based on equipment numbers from Chris Adams. No material imported or exported, so no hauling trips included.

Grading - No soil imported or exported. Soil would occur during guideway construction.

Construction Off-road Equipment Mitigation - VTA Specifications - All equipment less than 175 horsepower will be Tier 4

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	10.00	45.00
tblConstructionPhase	NumDays	10.00	110.00
tblConstructionPhase	NumDays	20.00	90.00
tblConstructionPhase	NumDays	230.00	220.00
tblConstructionPhase	NumDays	20.00	100.00
tblOffRoadEquipment	HorsePower	130.00	150.00
tblOffRoadEquipment	HorsePower	132.00	200.00
tblOffRoadEquipment	HorsePower	80.00	200.00
tblOffRoadEquipment	HorsePower	97.00	200.00
tblOffRoadEquipment	HorsePower	97.00	200.00
tblOffRoadEquipment	HorsePower	97.00	200.00
tblOffRoadEquipment	HorsePower	402.00	150.00
tblOffRoadEquipment	HorsePower	402.00	150.00
tblOffRoadEquipment	HorsePower	172.00	250.00
tblOffRoadEquipment	HorsePower	172.00	250.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	PhaseName		Utilities (PG&E) II
tblOffRoadEquipment	PhaseName		Systems, Final Paving
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	60.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	WorkerTripNumber	10.00	24.00
tblTripsAndVMT	WorkerTripNumber	20.00	24.00
tblTripsAndVMT	WorkerTripNumber	15.00	24.00
tblTripsAndVMT	WorkerTripNumber	153.00	24.00
tblTripsAndVMT	WorkerTripNumber	15.00	24.00

## 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					

2019	0.1798	1.9699	1.2992	3.3300e-003	0.0182	0.0749	0.0931	4.9300e-003	0.0689	0.0738	0.0000	300.0810	300.0810	0.0875	0.0000	302.2672
2020	0.0840	0.9981	0.4566	1.8700e-003	0.0103	0.0319	0.0422	2.7900e-003	0.0293	0.0321	0.0000	164.8139	164.8139	0.0492	0.0000	166.0427
2022	0.0858	0.6629	1.1311	1.8800e-003	0.0168	0.0291	0.0459	4.5600e-003	0.0268	0.0313	0.0000	167.1838	167.1838	0.0463	0.0000	168.3422
2023	0.1048	0.8696	1.4656	2.5200e-003	0.0229	0.0387	0.0616	6.2000e-003	0.0356	0.0418	0.0000	223.1056	223.1056	0.0626	0.0000	224.6716
<b>Maximum</b>	<b>0.1798</b>	<b>1.9699</b>	<b>1.4656</b>	<b>3.3300e-003</b>	<b>0.0229</b>	<b>0.0749</b>	<b>0.0931</b>	<b>6.2000e-003</b>	<b>0.0689</b>	<b>0.0738</b>	<b>0.0000</b>	<b>300.0810</b>	<b>300.0810</b>	<b>0.0875</b>	<b>0.0000</b>	<b>302.2672</b>

### 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					
2019	0.1217	1.4026	1.3820	3.3300e-003	0.0182	0.0436	0.0618	4.9300e-003	0.0403	0.0452	0.0000	300.0807	300.0807	0.0875	0.0000	302.2669
2020	0.0840	0.9981	0.4566	1.8700e-003	0.0103	0.0319	0.0422	2.7900e-003	0.0293	0.0321	0.0000	164.8138	164.8138	0.0492	0.0000	166.0425
2022	0.0263	0.1522	1.2681	1.8800e-003	0.0168	2.8400e-003	0.0196	4.5600e-003	2.8300e-003	7.3900e-003	0.0000	167.1836	167.1836	0.0463	0.0000	168.3420
2023	0.0346	0.1747	1.7110	2.5200e-003	0.0229	3.7400e-003	0.0266	6.2000e-003	3.7300e-003	9.9300e-003	0.0000	223.1054	223.1054	0.0626	0.0000	224.6714
<b>Maximum</b>	<b>0.1217</b>	<b>1.4026</b>	<b>1.7110</b>	<b>3.3300e-003</b>	<b>0.0229</b>	<b>0.0436</b>	<b>0.0618</b>	<b>6.2000e-003</b>	<b>0.0403</b>	<b>0.0452</b>	<b>0.0000</b>	<b>300.0807</b>	<b>300.0807</b>	<b>0.0875</b>	<b>0.0000</b>	<b>302.2669</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>41.34</b>	<b>39.39</b>	<b>-10.69</b>	<b>0.00</b>	<b>0.00</b>	<b>52.98</b>	<b>38.09</b>	<b>0.00</b>	<b>52.57</b>	<b>47.14</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
2	4-1-2019	6-30-2019	0.7488	0.5783
3	7-1-2019	9-30-2019	1.1612	0.7876
4	10-1-2019	12-31-2019	0.9136	0.5847
5	1-1-2020	3-31-2020	0.7820	0.7820



6	4-1-2020	6-30-2020	0.3005	0.3005
15	7-1-2022	9-30-2022	0.3751	0.0891
16	10-1-2022	12-31-2022	0.3759	0.0899
17	1-1-2023	3-31-2023	0.3381	0.0798
18	4-1-2023	6-30-2023	0.3338	0.0702
19	7-1-2023	9-30-2023	0.3003	0.0586
		Highest	1.1612	0.7876

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Utilities (PG&E) I	Site Preparation	5/20/2019	7/19/2019	5	45	
2	Utilities (PG&E) II	Site Preparation	7/20/2019	12/20/2019	5	110	
3	Clearing, Roadway Widening, Retaining Walls @ Eastridge	Grading	1/1/2020	5/5/2020	5	90	
4	Station Furnishings, Plinths, Median Drainage, Curb Work	Building Construction	7/1/2022	5/4/2023	5	220	
5	Systems, Final Paving	Paving	5/5/2023	9/21/2023	5	100	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 8.36

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Utilities (PG&E) I	Rubber Tired Dozers	0	8.00	247	0.40
Utilities (PG&E) I	Tractors/Loaders/Backhoes	4	8.00	200	0.37
Utilities (PG&E) II	Off-Highway Trucks	4	8.00	150	0.38
Utilities (PG&E) II	Rubber Tired Dozers	0	8.00	247	0.40

Utilities (PG&E) II	Tractors/Loaders/Backhoes	4	8.00	200	0.37
Clearing, Roadway Widening, Retaining Walls @ Eastridge	Excavators	0	8.00	158	0.38
Clearing, Roadway Widening, Retaining Walls @ Eastridge	Graders	0	8.00	187	0.41
Clearing, Roadway Widening, Retaining Walls @ Eastridge	Rubber Tired Dozers	0	8.00	247	0.40
Clearing, Roadway Widening, Retaining Walls @ Eastridge	Tractors/Loaders/Backhoes	6	8.00	200	0.37
Station Furnishings, Plinths, Median Drainage, Curb Work	Cement and Mortar Mixers	0	8.00	9	0.56
Station Furnishings, Plinths, Median Drainage, Curb Work	Cranes	0	7.00	231	0.29
Station Furnishings, Plinths, Median Drainage, Curb Work	Forklifts	0	8.00	89	0.20
Station Furnishings, Plinths, Median Drainage, Curb Work	Generator Sets	0	8.00	84	0.74
Station Furnishings, Plinths, Median Drainage, Curb Work	Off-Highway Trucks	5	8.00	150	0.38
Station Furnishings, Plinths, Median Drainage, Curb Work	Other Construction Equipment	5	8.00	250	0.42
Station Furnishings, Plinths, Median Drainage, Curb Work	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Station Furnishings, Plinths, Median Drainage, Curb Work	Welders	0	8.00	46	0.45
Systems, Final Paving	Other Construction Equipment	2	8.00	250	0.42
Systems, Final Paving	Pavers	4	8.00	150	0.42
Systems, Final Paving	Paving Equipment	0	8.00	200	0.36
Systems, Final Paving	Rollers	0	8.00	200	0.38

### Trips and VMT

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
Utilities (PG&E) I	4	24.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Utilities (PG&E) II	8	24.00	8.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Clearing, Roadway Widening, Retaining Walls	6	24.00	6.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Station Furnishings, Plinths, Median	10	24.00	10.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Systems, Final Paving	6	24.00	6.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

### 3.2 Utilities (PG&E) I - 2019

#### 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	0.0288	0.3696	0.1433	5.7000e-004		0.0120	0.0120		0.0110	0.0110	0.0000	51.3002	51.3002	0.0162	0.0000	51.7060
<b>Total</b>	<b>0.0288</b>	<b>0.3696</b>	<b>0.1433</b>	<b>5.7000e-004</b>	<b>0.0000</b>	<b>0.0120</b>	<b>0.0120</b>	<b>0.0000</b>	<b>0.0110</b>	<b>0.0110</b>	<b>0.0000</b>	<b>51.3002</b>	<b>51.3002</b>	<b>0.0162</b>	<b>0.0000</b>	<b>51.7060</b>

#### 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	4.4000e-004	0.0114	3.0500e-003	2.0000e-005	5.9000e-004	8.0000e-005	6.7000e-004	1.7000e-004	8.0000e-005	2.5000e-004	0.0000	2.3675	2.3675	1.2000e-004	0.0000	2.3704
Worker	1.9600e-003	1.4600e-003	0.0151	4.0000e-005	4.2800e-003	3.0000e-005	4.3100e-003	1.1400e-003	3.0000e-005	1.1700e-003	0.0000	3.7913	3.7913	1.0000e-004	0.0000	3.7938
<b>Total</b>	<b>2.4000e-003</b>	<b>0.0128</b>	<b>0.0181</b>	<b>6.0000e-005</b>	<b>4.8700e-003</b>	<b>1.1000e-004</b>	<b>4.9800e-003</b>	<b>1.3100e-003</b>	<b>1.1000e-004</b>	<b>1.4200e-003</b>	<b>0.0000</b>	<b>6.1587</b>	<b>6.1587</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>6.1642</b>

#### 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
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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	0.0288	0.3696	0.1433	5.7000e-004		0.0120	0.0120		0.0110	0.0110	0.0000	51.3001	51.3001	0.0162	0.0000	51.7059
<b>Total</b>	<b>0.0288</b>	<b>0.3696</b>	<b>0.1433</b>	<b>5.7000e-004</b>	<b>0.0000</b>	<b>0.0120</b>	<b>0.0120</b>	<b>0.0000</b>	<b>0.0110</b>	<b>0.0110</b>	<b>0.0000</b>	<b>51.3001</b>	<b>51.3001</b>	<b>0.0162</b>	<b>0.0000</b>	<b>51.7059</b>

**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	4.4000e-004	0.0114	3.0500e-003	2.0000e-005	5.9000e-004	8.0000e-005	6.7000e-004	1.7000e-004	8.0000e-005	2.5000e-004	0.0000	2.3675	2.3675	1.2000e-004	0.0000	2.3704
Worker	1.9600e-003	1.4600e-003	0.0151	4.0000e-005	4.2800e-003	3.0000e-005	4.3100e-003	1.1400e-003	3.0000e-005	1.1700e-003	0.0000	3.7913	3.7913	1.0000e-004	0.0000	3.7938
<b>Total</b>	<b>2.4000e-003</b>	<b>0.0128</b>	<b>0.0181</b>	<b>6.0000e-005</b>	<b>4.8700e-003</b>	<b>1.1000e-004</b>	<b>4.9800e-003</b>	<b>1.3100e-003</b>	<b>1.1000e-004</b>	<b>1.4200e-003</b>	<b>0.0000</b>	<b>6.1587</b>	<b>6.1587</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>6.1642</b>

**3.3 Utilities (PG&E) II - 2019**

**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	0.1417	1.5283	1.0860	2.4700e-003		0.0623	0.0623		0.0573	0.0573	0.0000	221.7803	221.7803	0.0702	0.0000	223.5346

<b>Total</b>	<b>0.1417</b>	<b>1.5283</b>	<b>1.0860</b>	<b>2.4700e-003</b>	<b>0.0000</b>	<b>0.0623</b>	<b>0.0623</b>	<b>0.0000</b>	<b>0.0573</b>	<b>0.0573</b>	<b>0.0000</b>	<b>221.7803</b>	<b>221.7803</b>	<b>0.0702</b>	<b>0.0000</b>	<b>223.5346</b>
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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	2.1600e-003	0.0556	0.0149	1.2000e-004	2.8900e-003	4.0000e-004	3.2900e-003	8.4000e-004	3.8000e-004	1.2200e-003	0.0000	11.5743	11.5743	5.7000e-004	0.0000	11.5886
Worker	4.7900e-003	3.5700e-003	0.0369	1.0000e-004	0.0105	7.0000e-005	0.0105	2.7800e-003	6.0000e-005	2.8500e-003	0.0000	9.2675	9.2675	2.5000e-004	0.0000	9.2738
<b>Total</b>	<b>6.9500e-003</b>	<b>0.0591</b>	<b>0.0518</b>	<b>2.2000e-004</b>	<b>0.0134</b>	<b>4.7000e-004</b>	<b>0.0138</b>	<b>3.6200e-003</b>	<b>4.4000e-004</b>	<b>4.0700e-003</b>	<b>0.0000</b>	<b>20.8418</b>	<b>20.8418</b>	<b>8.2000e-004</b>	<b>0.0000</b>	<b>20.8624</b>

**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	0.0836	0.9611	1.1687	2.4700e-003		0.0311	0.0311		0.0287	0.0287	0.0000	221.7801	221.7801	0.0702	0.0000	223.5343
<b>Total</b>	<b>0.0836</b>	<b>0.9611</b>	<b>1.1687</b>	<b>2.4700e-003</b>	<b>0.0000</b>	<b>0.0311</b>	<b>0.0311</b>	<b>0.0000</b>	<b>0.0287</b>	<b>0.0287</b>	<b>0.0000</b>	<b>221.7801</b>	<b>221.7801</b>	<b>0.0702</b>	<b>0.0000</b>	<b>223.5343</b>

**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	2.1600e-003	0.0556	0.0149	1.2000e-004	2.8900e-003	4.0000e-004	3.2900e-003	8.4000e-004	3.8000e-004	1.2200e-003	0.0000	11.5743	11.5743	5.7000e-004	0.0000	11.5886
Worker	4.7900e-003	3.5700e-003	0.0369	1.0000e-004	0.0105	7.0000e-005	0.0105	2.7800e-003	6.0000e-005	2.8500e-003	0.0000	9.2675	9.2675	2.5000e-004	0.0000	9.2738
<b>Total</b>	<b>6.9500e-003</b>	<b>0.0591</b>	<b>0.0518</b>	<b>2.2000e-004</b>	<b>0.0134</b>	<b>4.7000e-004</b>	<b>0.0138</b>	<b>3.6200e-003</b>	<b>4.4000e-004</b>	<b>4.0700e-003</b>	<b>0.0000</b>	<b>20.8418</b>	<b>20.8418</b>	<b>8.2000e-004</b>	<b>0.0000</b>	<b>20.8624</b>

**3.4 Clearing, Roadway Widening, Retaining Walls @ Eastridge -  
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	0.0794	0.9648	0.4214	1.7100e-003		0.0317	0.0317		0.0291	0.0291	0.0000	150.4094	150.4094	0.0487	0.0000	151.6255
<b>Total</b>	<b>0.0794</b>	<b>0.9648</b>	<b>0.4214</b>	<b>1.7100e-003</b>	<b>0.0000</b>	<b>0.0317</b>	<b>0.0317</b>	<b>0.0000</b>	<b>0.0291</b>	<b>0.0291</b>	<b>0.0000</b>	<b>150.4094</b>	<b>150.4094</b>	<b>0.0487</b>	<b>0.0000</b>	<b>151.6255</b>

**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	1.0700e-003	0.0307	8.1900e-003	7.0000e-005	1.7800e-003	1.5000e-004	1.9300e-003	5.1000e-004	1.5000e-004	6.6000e-004	0.0000	7.0590	7.0590	3.2000e-004	0.0000	7.0671
Worker	3.5900e-003	2.5800e-003	0.0270	8.0000e-005	8.5700e-003	6.0000e-005	8.6200e-003	2.2800e-003	5.0000e-005	2.3300e-003	0.0000	7.3456	7.3456	1.8000e-004	0.0000	7.3501
<b>Total</b>	<b>4.6600e-003</b>	<b>0.0333</b>	<b>0.0352</b>	<b>1.5000e-004</b>	<b>0.0104</b>	<b>2.1000e-004</b>	<b>0.0106</b>	<b>2.7900e-003</b>	<b>2.0000e-004</b>	<b>2.9900e-003</b>	<b>0.0000</b>	<b>14.4046</b>	<b>14.4046</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>14.4172</b>

**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	0.0794	0.9648	0.4214	1.7100e-003		0.0316	0.0316		0.0291	0.0291	0.0000	150.4092	150.4092	0.0487	0.0000	151.6253
<b>Total</b>	<b>0.0794</b>	<b>0.9648</b>	<b>0.4214</b>	<b>1.7100e-003</b>	<b>0.0000</b>	<b>0.0316</b>	<b>0.0316</b>	<b>0.0000</b>	<b>0.0291</b>	<b>0.0291</b>	<b>0.0000</b>	<b>150.4092</b>	<b>150.4092</b>	<b>0.0487</b>	<b>0.0000</b>	<b>151.6253</b>

**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	1.0700e-003	0.0307	8.1900e-003	7.0000e-005	1.7800e-003	1.5000e-004	1.9300e-003	5.1000e-004	1.5000e-004	6.6000e-004	0.0000	7.0590	7.0590	3.2000e-004	0.0000	7.0671
Worker	3.5900e-003	2.5800e-003	0.0270	8.0000e-005	8.5700e-003	6.0000e-005	8.6200e-003	2.2800e-003	5.0000e-005	2.3300e-003	0.0000	7.3456	7.3456	1.8000e-004	0.0000	7.3501
<b>Total</b>	<b>4.6600e-003</b>	<b>0.0333</b>	<b>0.0352</b>	<b>1.5000e-004</b>	<b>0.0104</b>	<b>2.1000e-004</b>	<b>0.0106</b>	<b>2.7900e-003</b>	<b>2.0000e-004</b>	<b>2.9900e-003</b>	<b>0.0000</b>	<b>14.4046</b>	<b>14.4046</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>14.4172</b>

**3.5 Station Furnishings, Plinths, Median Drainage, Curb Work -  
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	0.0793	0.5962	1.0812	1.6000e-003		0.0289	0.0289		0.0266	0.0266	0.0000	140.4338	140.4338	0.0454	0.0000	141.5692
<b>Total</b>	<b>0.0793</b>	<b>0.5962</b>	<b>1.0812</b>	<b>1.6000e-003</b>		<b>0.0289</b>	<b>0.0289</b>		<b>0.0266</b>	<b>0.0266</b>	<b>0.0000</b>	<b>140.4338</b>	<b>140.4338</b>	<b>0.0454</b>	<b>0.0000</b>	<b>141.5692</b>

**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	1.9900e-003	0.0636	0.0169	1.8000e-004	4.3100e-003	1.3000e-004	4.4400e-003	1.2500e-003	1.2000e-004	1.3700e-003	0.0000	16.8041	16.8041	7.1000e-004	0.0000	16.8218
Worker	4.5200e-003	3.0100e-003	0.0331	1.1000e-004	0.0125	8.0000e-005	0.0125	3.3200e-003	7.0000e-005	3.3900e-003	0.0000	9.9460	9.9460	2.1000e-004	0.0000	9.9512
<b>Total</b>	<b>6.5100e-003</b>	<b>0.0666</b>	<b>0.0499</b>	<b>2.9000e-004</b>	<b>0.0168</b>	<b>2.1000e-004</b>	<b>0.0170</b>	<b>4.5700e-003</b>	<b>1.9000e-004</b>	<b>4.7600e-003</b>	<b>0.0000</b>	<b>26.7501</b>	<b>26.7501</b>	<b>9.2000e-004</b>	<b>0.0000</b>	<b>26.7730</b>

**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	0.0198	0.0856	1.2182	1.6000e-003		2.6300e-003	2.6300e-003		2.6300e-003	2.6300e-003	0.0000	140.4336	140.4336	0.0454	0.0000	141.5691
<b>Total</b>	<b>0.0198</b>	<b>0.0856</b>	<b>1.2182</b>	<b>1.6000e-003</b>		<b>2.6300e-003</b>	<b>2.6300e-003</b>		<b>2.6300e-003</b>	<b>2.6300e-003</b>	<b>0.0000</b>	<b>140.4336</b>	<b>140.4336</b>	<b>0.0454</b>	<b>0.0000</b>	<b>141.5691</b>

**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	1.9900e-003	0.0636	0.0169	1.8000e-004	4.3100e-003	1.3000e-004	4.4400e-003	1.2500e-003	1.2000e-004	1.3700e-003	0.0000	16.8041	16.8041	7.1000e-004	0.0000	16.8218
Worker	4.5200e-003	3.0100e-003	0.0331	1.1000e-004	0.0125	8.0000e-005	0.0125	3.3200e-003	7.0000e-005	3.3900e-003	0.0000	9.9460	9.9460	2.1000e-004	0.0000	9.9512
<b>Total</b>	<b>6.5100e-003</b>	<b>0.0666</b>	<b>0.0499</b>	<b>2.9000e-004</b>	<b>0.0168</b>	<b>2.1000e-004</b>	<b>0.0170</b>	<b>4.5700e-003</b>	<b>1.9000e-004</b>	<b>4.7600e-003</b>	<b>0.0000</b>	<b>26.7501</b>	<b>26.7501</b>	<b>9.2000e-004</b>	<b>0.0000</b>	<b>26.7730</b>

**3.5 Station Furnishings, Plinths, Median Drainage, Curb Work -  
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	0.0527	0.3764	0.7391	1.0900e-003		0.0181	0.0181		0.0166	0.0166	0.0000	95.4316	95.4316	0.0309	0.0000	96.2032

<b>Total</b>	<b>0.0527</b>	<b>0.3764</b>	<b>0.7391</b>	<b>1.0900e-003</b>		<b>0.0181</b>	<b>0.0181</b>		<b>0.0166</b>	<b>0.0166</b>	<b>0.0000</b>	<b>95.4316</b>	<b>95.4316</b>	<b>0.0309</b>	<b>0.0000</b>	<b>96.2032</b>
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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	1.0200e-003	0.0328	0.0103	1.2000e-004	2.9300e-003	4.0000e-005	2.9700e-003	8.5000e-004	4.0000e-005	8.8000e-004	0.0000	11.0920	11.0920	4.1000e-004	0.0000	11.1022
Worker	2.8800e-003	1.8400e-003	0.0207	7.0000e-005	8.4700e-003	5.0000e-005	8.5200e-003	2.2500e-003	5.0000e-005	2.3000e-003	0.0000	6.5005	6.5005	1.3000e-004	0.0000	6.5037
<b>Total</b>	<b>3.9000e-003</b>	<b>0.0346</b>	<b>0.0310</b>	<b>1.9000e-004</b>	<b>0.0114</b>	<b>9.0000e-005</b>	<b>0.0115</b>	<b>3.1000e-003</b>	<b>9.0000e-005</b>	<b>3.1800e-003</b>	<b>0.0000</b>	<b>17.5925</b>	<b>17.5925</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>17.6059</b>

**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	0.0134	0.0582	0.8276	1.0900e-003		1.7900e-003	1.7900e-003		1.7900e-003	1.7900e-003	0.0000	95.4315	95.4315	0.0309	0.0000	96.2031
<b>Total</b>	<b>0.0134</b>	<b>0.0582</b>	<b>0.8276</b>	<b>1.0900e-003</b>		<b>1.7900e-003</b>	<b>1.7900e-003</b>		<b>1.7900e-003</b>	<b>1.7900e-003</b>	<b>0.0000</b>	<b>95.4315</b>	<b>95.4315</b>	<b>0.0309</b>	<b>0.0000</b>	<b>96.2031</b>

**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	1.0200e-003	0.0328	0.0103	1.2000e-004	2.9300e-003	4.0000e-005	2.9700e-003	8.5000e-004	4.0000e-005	8.8000e-004	0.0000	11.0920	11.0920	4.1000e-004	0.0000	11.1022
Worker	2.8800e-003	1.8400e-003	0.0207	7.0000e-005	8.4700e-003	5.0000e-005	8.5200e-003	2.2500e-003	5.0000e-005	2.3000e-003	0.0000	6.5005	6.5005	1.3000e-004	0.0000	6.5037
<b>Total</b>	<b>3.9000e-003</b>	<b>0.0346</b>	<b>0.0310</b>	<b>1.9000e-004</b>	<b>0.0114</b>	<b>9.0000e-005</b>	<b>0.0115</b>	<b>3.1000e-003</b>	<b>9.0000e-005</b>	<b>3.1800e-003</b>	<b>0.0000</b>	<b>17.5925</b>	<b>17.5925</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>17.6059</b>

### 3.6 Systems, Final 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	0.0443	0.4345	0.6653	1.0900e-003		0.0204	0.0204		0.0188	0.0188	0.0000	95.2999	95.2999	0.0308	0.0000	96.0705
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0443</b>	<b>0.4345</b>	<b>0.6653</b>	<b>1.0900e-003</b>		<b>0.0204</b>	<b>0.0204</b>		<b>0.0188</b>	<b>0.0188</b>	<b>0.0000</b>	<b>95.2999</b>	<b>95.2999</b>	<b>0.0308</b>	<b>0.0000</b>	<b>96.0705</b>

#### 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	6.9000e-004	0.0221	6.9400e-003	8.0000e-005	1.9700e-003	3.0000e-005	2.0000e-003	5.7000e-004	2.0000e-005	6.0000e-004	0.0000	7.4777	7.4777	2.8000e-004	0.0000	7.4846
Worker	3.2300e-003	2.0700e-003	0.0232	8.0000e-005	9.5200e-003	6.0000e-005	9.5700e-003	2.5300e-003	5.0000e-005	2.5800e-003	0.0000	7.3039	7.3039	1.4000e-004	0.0000	7.3075
<b>Total</b>	<b>3.9200e-003</b>	<b>0.0242</b>	<b>0.0302</b>	<b>1.6000e-004</b>	<b>0.0115</b>	<b>9.0000e-005</b>	<b>0.0116</b>	<b>3.1000e-003</b>	<b>7.0000e-005</b>	<b>3.1800e-003</b>	<b>0.0000</b>	<b>14.7817</b>	<b>14.7817</b>	<b>4.2000e-004</b>	<b>0.0000</b>	<b>14.7921</b>

**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	0.0133	0.0578	0.8222	1.0900e-003		1.7800e-003	1.7800e-003		1.7800e-003	1.7800e-003	0.0000	95.2998	95.2998	0.0308	0.0000	96.0703
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0133</b>	<b>0.0578</b>	<b>0.8222</b>	<b>1.0900e-003</b>		<b>1.7800e-003</b>	<b>1.7800e-003</b>		<b>1.7800e-003</b>	<b>1.7800e-003</b>	<b>0.0000</b>	<b>95.2998</b>	<b>95.2998</b>	<b>0.0308</b>	<b>0.0000</b>	<b>96.0703</b>

**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	6.9000e-004	0.0221	6.9400e-003	8.0000e-005	1.9700e-003	3.0000e-005	2.0000e-003	5.7000e-004	2.0000e-005	6.0000e-004	0.0000	7.4777	7.4777	2.8000e-004	0.0000	7.4846
Worker	3.2300e-003	2.0700e-003	0.0232	8.0000e-005	9.5200e-003	6.0000e-005	9.5700e-003	2.5300e-003	5.0000e-005	2.5800e-003	0.0000	7.3039	7.3039	1.4000e-004	0.0000	7.3075
<b>Total</b>	<b>3.9200e-003</b>	<b>0.0242</b>	<b>0.0302</b>	<b>1.6000e-004</b>	<b>0.0115</b>	<b>9.0000e-005</b>	<b>0.0116</b>	<b>3.1000e-003</b>	<b>7.0000e-005</b>	<b>3.1800e-003</b>	<b>0.0000</b>	<b>14.7817</b>	<b>14.7817</b>	<b>4.2000e-004</b>	<b>0.0000</b>	<b>14.7921</b>

## **Emissions Used in Health Risk Assessment**

**Summary by Activity**

Annual Emissions (tons)	Start date	End date	# of Days	Exhaust PM2.5
<b>2019</b>				
<i>Utilities</i>				
On-Site	5/20/2019	12/20/2019	155	0.04
Off-Site				0.001
<b>2020</b>				
<i>Clearing, roadway widening, retaining walls at Eastridge</i>				
On-Site	1/1/2020	5/5/2020	90	0.03
Off-Site				0.0002
<i>Guideway</i>				
On-Site	7/1/2020	12/31/2020	132	0.04
Off-Site				0.002
<b>2021</b>				
<i>Guideway</i>				
On-Site	1/1/2021	12/31/2021	261	0.07
Off-Site				0.002
<b>2022</b>				
<i>Guideway</i>				
On-Site	1/1/2022	4/26/2022	82	0.02
Off-Site				0.001
<i>Stations furnishings, plinths, roadway (median drainage, intersection curb work), track and systems. Eastridge Station Platform and furnishings</i>				
On-Site	7/1/2022	12/31/2022	131	0.0026
Off-Site				0.0002
<b>2023</b>				
<i>Stations furnishings, plinths, roadway (median drainage, intersection curb work), track and systems. Eastridge Station Platform and furnishings.</i>				
On-Site	1/1/2023	5/4/2023	89	0.002
Off-Site				0.0001
<i>Systems, Final Paving</i>				
On-Site	5/5/2023	9/21/2023	100	0.002
Off-Site				0.0001

**Summary by Year**

	On-Site PM2.5	Off-Site PM2.5	Total Exhaust PM2.5
2019	0.04	0.0006	0.04
2020	0.07	0.0019	0.07
2021	0.07	0.0019	0.07
2022	0.02	0.0007	0.02
2023	0.004	0.0002	0.004

**Existing Cumulative Risk Exposure**

Existing Source Contributions for Cumulative Analysis

Existing Stationary Risks Near Alignment

Name	ID	Address	Distance	Source Type	Cancer	Hazard	PM2.5	Adjust?
AAMCO Transmissions	2194	19072 75 S. Capitol Expressway	>1000 feet north of northern endpoint	not disclosed	0.00	0.000	0.000	N
The Home Depot	1269	18454 2855 Story Road	800 feet east of alignment	Generator	15.53	0.005503865	0.0036	Y
World Oil Marketing Company Station 101	1210	G381 2695 Story Road	at intersection of Capitol & Story (NW cor	Gas Station	38.688	0.064	na	Y
Capitol Touchless Carwash	1222	G6217 2701 Story Road	at intersection of Capitol & Story (NE corn	Gas Station	29.449	0.049	na	Y
Chevron #8247	1227	G11912 2710 Story Road	at intersection of Capitol & Story (SE corne	Gas Station	8.618	0.014	na	Y
USA Petroleum	1247	G11831 2790 Story Road	800 feet east of alignment	Gas Station	27.63	0.046	na	Y
Nice Air	1167	G10318 2555 Robert Fowler Way, A	900 feet west of alignment	not disclosed	14.017	0.019	na	Y
L.P. Enterprises, LLC	1195	18748 2635 Cunningham Avenue	300 feet west of alignment	not disclosed	22	0.013	0.000	N
Verizon Wireless (Reid Hill/Airport)	1196	19609 2636 John Montgomery Road	70 feet west of alignment	Generator	1.79	0.00063	0.0018564	Y
Eastridge Mall - San Jose	990	15952 2200 Eastridge Loop	500-1000 feet west of alignment	Generator	30.93	0.011	0.007	Y
JC Penny Co, Inc.	1023	19884 2240 Tully Road	600 feet west of alignment	not disclosed	na	na	na	Y
JC Penny Company, Store #J1923-2	1014	16396 2230 Tully Road	600 feet west of alignment	Generator	0.02	0.000	0.001	Y
Arco Service Station #2187	1107	G4102 2375 Quimby Road	1000 feet south of alignment	Gas Station	78.386	0.13	na	Y

OEHHA Adjustment Factor  
1.3744  
2020 On-Road Scaling Factor  
0.65

MEI 1 - 2710 Kollmar Drive

Name	ID	Address	Distance	Source Type	Cancer	Hazard	PM2.5	Adjust?	Include?	Distance from MEI	ADJ Cancer	ADJ Hazard	ADJ PM2.5
Chevron #8247	1227	G11912 2710 Story Road	it intersection of Capitol & Story (SE corner	Gas Station	8.62	0.01	na	Y	Y	200 feet away	1.51	0.00	na
Capitol Touchless Carwash	1222	G6217 2701 Story Road	t intersection of Capitol & Story (NE corner	Gas Station	29.45	0.05	na	Y	Y	415 feet away	1.63	0.00	na
World Oil Marketing Company Station 101	1210	G381 2695 Story Road	t intersection of Capitol & Story (NW corne	Gas Station	38.69	0.06	na	Y	Y	430 feet away	2.01	0.00	na
USA Petroleum	1247	G11831 2790 Story Road	800 feet east of alignment	Gas Station	27.63	0.05	na	Y	Y	750 feet away	0.59	0.00	na
The Home Depot	1269	18454 2855 Story Road	800 feet east of alignment	Generator	15.53	0.01	0.00	Y	N	1200 feet away	0.55	0.00	0.00
Capitol Expressway		BAAQMD Roadway Screening Calculator - 54,418 ADT and 60 feet east		Roadway	31.44	na	0.74	Y	Y	60 feet east	28.09		0.48
Story Road		BAAQMD Roadway Screening Calculator - 32,201 ADT and 280 feet south		Roadway	5.60		0.14	Y	Y	280 feet south	5.00		0.09
<b>Total</b>											<b>38.83</b>	<b>0.01</b>	<b>0.57</b>

MEI 2 - 2045 Supreme Drive

Name	ID	Address	Distance	Source Type	Cancer	Hazard	PM2.5	Adjust?	Include?	Distance from MEI	ADJ Cancer	ADJ Hazard	ADJ PM2.5
Verizon Wireless (Reid Hill/Airport)	1196	19609 2636 John Montgomery Road	70 feet west of alignment	Generator	1.79	0.00	0.00	Y	Y	200 feet away	0.11	0.00	0.00
L.P. Enterprises, LLC	1195	18748 2635 Cunningham Avenue	300 feet west of alignment	not disclosed	22.00	0.01	-	N	Y	415 feet away	0.67	0.00	-
Nice Air	1167	G10318 2555 Robert Fowler Way, A	900 feet west of alignment	not disclosed	14.02	0.02	na	Y	Y	430 feet away	0.41	0.00	na
Capitol Expressway		BAAQMD Roadway Screening Calculator - 54,418 ADT and 20 feet east		Roadway	49.28	na	1.17	Y	Y	20 feet east	44.02		0.76
Cunningham Avenue East of Capitol Expressway		BAAQMD Roadway Screening Calculator - 4,698 ADT and 20 feet north		Roadway	2.74	na	0.06	Y	Y	20 feet north	2.45		0.04
<b>Total</b>											<b>47.67</b>	<b>0.00</b>	<b>0.80</b>

MEI 3 - 1756 Home Gate Drive

Name	ID	Address	Distance	Source Type	Cancer	Hazard	PM2.5	Adjust?	Include?	Distance from MEI	ADJ Cancer	ADJ Hazard	ADJ PM2.5
Capitol Expressway		BAAQMD Roadway Screening Calculator - 50,827 ADT and 20 feet east		Roadway	46.02	na	1.09	Y	Y	20 feet east	41.11		0.71
Ocala Avenue - East of Capitol Expressway		BAAQMD Roadway Screening Calculator - 21,038 ADT and 20 feet south		Roadway	14.01	na	0.36	Y	Y	20 feet south	12.52		0.23
<b>Total</b>											<b>53.63</b>	<b>0.00</b>	<b>0.94</b>

MEI 4 - Highwood Drive (Corner of Capitol Ave. and Capitol Expressway)

Name	ID	Address	Distance	Source Type	Cancer	Hazard	PM2.5	Adjust?	Include?	Distance from MEI	ADJ Cancer	ADJ Hazard	ADJ PM2.5
Capitol Expressway between Story Road		BAAQMD Roadway Screening Calculator - 54,418 ADT and 70 feet east		Roadway	28.93	na	0.68	Y	Y	70 feet east	25.84		0.44
Capitol Avenue East of Capitol Expressway		BAAQMD Roadway Screening Calculator - 14,006 ADT and 200 feet south		Roadway	3.19	na	0.08	Y	Y	200 feet south	2.85		0.05
<b>Total</b>											<b>28.69</b>	<b>0.00</b>	<b>0.49</b>



# **BAAQMD Multiplier Tools for Cumulative Analysis**

## How to Use the Distance Adjustment Multiplier Tool for Gasoline Dispensing Facilities (GDF)

**This distance multiplier tool refines the screening values for cancer risk and chronic hazard index found in the District's Stationary Source Screening Analysis Tool to represent adjusted risk and hazard impacts that can be expected with farther distances from the source of emissions (GDF's).**

1. Obtain the GDF cancer risk and/or chronic hazard index from the District's Stationary Source Screening Analysis tool for facilities where the Plant No. is preceded with a 'G'. If the distance to the nearest receptor is less than 20 meters, the distance adjustment multiplier table cannot be used and an air dispersion modeling analysis using site-specific information is needed to refine the cancer risk and/or chronic hazard index estimate.

2. Determine the shortest distance from the GDF to the nearest receptor.

3. In the table below, enter the cancer risk and/or chronic hazard index found in step 1 for the GDF in the row which aligns with the shortest distance from each GDF to the nearest receptor (found in step 2). If the shortest distance to the receptor falls between two distance values, select the multiplier corresponding to the smaller distance. For distances beyond 300 meters, use the multiplier 0.015. The resulting product is the adjusted cancer risk in a million or the adjusted chronic hazard index for the GDF.

**Note:** These distance adjustment multipliers may be used only for the screening level health risk values indicated in the District's Stationary Source Screening Analysis tool for gasoline dispensing facilities. This distance multiplier tool may not be used to adjust values from an HRA if an HRA for the facility was conducted.

Distance meters	Distance feet	Distance adjustment multiplier	Enter Cancer Risk	Adjusted Cancer Risk	Enter Chronic Hazard Index	Adjusted Chronic Hazard Index
20	66	1.000		0		0
25	82	0.728		0		0
30	98	0.559		0		0
35	115	0.445		0		0
40	131	0.365		0		0
45	148	0.305		0		0
50	164	0.260		0		0
55	180	0.225		0		0
60	197	0.197		0		0
65	213	0.174		0		0
70	230	0.155		0		0
75	246	0.139		0		0
80	262	0.126		0		0
85	279	0.114		0		0
90	295	0.104		0		0
95	312	0.096		0		0
100	328	0.088		0		0
105	344	0.082		0		0
110	361	0.076		0		0
115	377	0.071		0		0
120	394	0.066		0		0
125	410	0.062		0		0
130	426	0.058		0		0
135	443	0.055		0		0
140	459	0.052		0		0
145	476	0.049		0		0
150	492	0.046		0		0
155	508	0.044		0		0
160	525	0.042		0		0
165	541	0.040		0		0
170	558	0.038		0		0
175	574	0.036		0		0
180	590	0.034		0		0

185	607	0.033		0	0
190	623	0.031		0	0
195	640	0.030		0	0
200	656	0.029		0	0
205	672	0.028		0	0
210	689	0.027		0	0
215	705	0.026		0	0
220	722	0.025		0	0
225	738	0.024		0	0
230	754	0.023		0	0
235	771	0.022		0	0
240	787	0.022		0	0
245	804	0.021		0	0
250	820	0.020		0	0
255	836	0.020		0	0
260	853	0.019		0	0
265	869	0.018		0	0
270	886	0.018		0	0
275	902	0.017		0	0
280	918	0.017		0	0
285	935	0.016		0	0
290	951	0.016		0	0
295	968	0.015		0	0
300	984	0.015		0	0

### How to Use the Distance Adjustment Multiplier Tool for Diesel Internal Combustion (IC) Engines

This distance multiplier tool refines the screening values for cancer risk and PM2.5 concentrations found in the District's Stationary Source Screening Analysis Tool for permitted facilities which contain only diesel IC engines, to represent adjusted risk and hazard impacts that can be expected with farther distances from the source of emissions.

1. Obtain the facility diesel IC engine(s) cancer risk and/or PM2.5 concentration from the District's Stationary Source Screening Analysis tool only for facilities where the source is listed as "generator." If the distance to the nearest receptor is less than 25 meters, the distance adjustment multiplier table cannot be used and an air dispersion modeling analysis using site-specific information is needed to refine the cancer risk, chronic hazard index or PM2.5 estimates.
2. Determine the shortest distance from each diesel IC engine to the nearest receptor. Select the shortest distance to receptor found.
3. In the table below, enter the cancer risk and/or PM2.5 concentration found in step 1 for the diesel IC engine in the row which aligns with the shortest distance from each diesel IC engine to the nearest receptor (found in step 2). If the shortest distance to the receptor falls between two distance values, select the multiplier corresponding to the smaller distance. For distances beyond 280 meters, use the multiplier 0.04. The resulting product is the adjusted cancer risk in a million or the adjusted PM2.5 concentration for the diesel IC engine

**Note:** This distance adjustment multiplier may be used only for the screening level health risk values indicated in the District's Stationary Source Screening Analysis tool for diesel IC engines. This distance multiplier tool may not be used to adjust values from an HRA if an HRA for the facility was conducted.

**Note:** This distance adjustment multiplier may also be used to adjust the screening values for chronic hazard index found in the District's Stationary Source Screening Analysis Tool for facilities with only diesel IC engines.

Distance (meters)	Distance (feet)	Distance Adjustment Multiplier	Enter Cancer Risk Estimate	Adjusted Cancer Risk Estimate	Enter PM2.5 Concentration	Adjusted PM2.5 Concentration
25	82	0.85		0		0
30	98.4	0.73		0		0
35	115	0.64		0		0
40	131	0.58		0		0
50	164	0.5		0		0
60	197	0.41		0		0
70	230	0.31		0		0
80	262	0.28		0		0
90	295	0.25		0		0
100	328	0.22		0		0
110	361	0.18		0		0
120	394	0.16		0		0
130	426	0.15		0		0
140	459	0.14		0		0
150	492	0.12		0		0
160	525	0.1		0		0
180	590	0.09		0		0
200	656	0.08		0		0
220	722	0.07		0		0
240	787	0.06		0		0
260	853	0.05		0		0
280	918	0.04		0		0

# Vehicle Miles Traveled Data

Revised Run 05/01/2018

Bay Area Nine-County VMT

VMT	2017 NP	2017 WP	2023NP	2023WP	2043NP	2043WP
DAILY	160,409,989	160,409,310	167,928,083	167,958,707	189,655,478	189,355,301
% Increase		0.00%		0.02%		-0.16%

VMT	2017 NP	2017 WP	2023NP	2023WP	2043NP	2043WP
AM	36,301,106	36,300,972	37,679,891	37,693,029	41,770,378	41,685,431
MIDDAY	50,849,798	50,847,851	53,434,278	53,443,142	60,836,065	60,728,088
PM	45,197,996	45,195,510	47,196,770	47,205,891	53,013,616	52,875,203
NIGHT	28,061,088	28,064,976	29,617,144	29,616,645	34,035,418	34,066,579
DAILY	160,409,989	160,409,310	167,928,083	167,958,707	189,655,478	189,355,301
% Increase		0.00%		0.02%		-0.16%

NP = No Project

WP = With Project

# **EMFAC2017 Output Files – Criteria Pollutant Mass Emissions**

EMFAC2017 (v1.0.2) Emission Rates

Region Type: MPO

Region: MTC

Calendar Year: 2017

Season: Annual

Vehicle Classification: EMFAC2011 Categories

Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN

Region	Calendar Y	Vehicle Cal	Model	Year	Speed	Fuel	Population	VMT	Trips	ROG_RUNE	TOG_RUNE	CO_RUNE	N2O_RUNE	SOx_RUNE	PM10_RUNE	PM2_5_RUNE	N2O_RUNE	VMT Weighting	Added by ICF	
MTC	2017	All Other B	Aggregate		Aggregate	Aggregate	DSL	2291.176	139385.2	19245.87	0.385571	0.438943	0.985615	4.471435	1164.034	0.15324	0.146611	0.010997	0.18297	0%
MTC	2017	LDA	Aggregate		Aggregate	Aggregate	GAS	2520695	95245678	11762765	0.025317	0.036208	1.120217	0.091682	298.3973	0.001616	0.001487	0.002953	0.007872	54%
MTC	2017	LDA	Aggregate		Aggregate	Aggregate	DSL	24489.5	950942.6	114089.1	0.028873	0.03287	0.319708	0.221342	236.5945	0.017149	0.016407	0.002237	0.037189	1%
MTC	2017	LDA	Aggregate		Aggregate	Aggregate	ELEC	47335.3	1725990	239381.1	0	0	0	0	0	0	0	0	0	1%
MTC	2017	LDT1	Aggregate		Aggregate	Aggregate	GAS	274353	9616302	1244364	0.058122	0.081605	2.111152	0.212611	345.1708	0.002735	0.002518	0.003416	0.014016	5%
MTC	2017	LDT1	Aggregate		Aggregate	Aggregate	DSL	309.8488	5440.889	1055.163	0.25716	0.29276	1.501101	1.448037	443.9172	0.20569	0.196792	0.004197	0.069778	0%
MTC	2017	LDT1	Aggregate		Aggregate	Aggregate	ELEC	689.1404	22988.03	3383.056	0	0	0	0	0	0	0	0	0	0%
MTC	2017	LDT2	Aggregate		Aggregate	Aggregate	GAS	895460.4	33125608	4176176	0.031117	0.044138	1.360147	0.155973	385.5223	0.001596	0.001468	0.003815	0.011031	19%
MTC	2017	LDT2	Aggregate		Aggregate	Aggregate	DSL	3946.266	176463.1	19569.98	0.019707	0.022435	0.145068	0.074575	322.2282	0.008319	0.007959	0.003046	0.05065	0%
MTC	2017	LDT2	Aggregate		Aggregate	Aggregate	ELEC	2782.786	100647.7	14279.31	0	0	0	0	0	0	0	0	0	0%
MTC	2017	LHD1	Aggregate		Aggregate	Aggregate	GAS	75158.97	2757839	1119757	0.11273	0.155932	2.080572	0.404926	1051.422	0.002838	0.002616	0.010405	0.023246	2%
MTC	2017	LHD1	Aggregate		Aggregate	Aggregate	DSL	47464.22	1853946	597040.1	0.202314	0.230322	0.89432	3.53999	589.7017	0.037583	0.035957	0.005575	0.092693	1%
MTC	2017	LHD2	Aggregate		Aggregate	Aggregate	GAS	9577.206	349660.8	142686.1	0.079954	0.116431	1.492285	0.405706	1205.181	0.002433	0.002238	0.011926	0.023944	0%
MTC	2017	LHD2	Aggregate		Aggregate	Aggregate	DSL	15568.17	630509.8	195828	0.179084	0.203875	0.781576	2.70908	661.0408	0.031883	0.030504	0.006249	0.103906	0%
MTC	2017	MCY	Aggregate		Aggregate	Aggregate	GAS	128433.8	1073322	256867.6	2.566077	3.086551	23.54617	1.197678	217.3388	0.001841	0.001734	0.002151	0.06829	1%
MTC	2017	MDV	Aggregate		Aggregate	Aggregate	GAS	581150.4	20598552	2674886	0.045093	0.062538	1.660522	0.205927	464.474	0.001755	0.001616	0.004596	0.013955	12%
MTC	2017	MDV	Aggregate		Aggregate	Aggregate	DSL	9540.111	417038.4	46983.7	0.014727	0.016766	0.218289	0.084556	422.8023	0.006917	0.006618	0.003997	0.066459	0%
MTC	2017	MDV	Aggregate		Aggregate	Aggregate	ELEC	211.0922	6344.58	1012.885	0	0	0	0	0	0	0	0	0	0%
MTC	2017	MH	Aggregate		Aggregate	Aggregate	GAS	12949.58	113684.8	1295.476	0.174752	0.239808	4.727402	0.796974	1857.853	0.002565	0.002367	0.018385	0.041481	0%
MTC	2017	MH	Aggregate		Aggregate	Aggregate	DSL	3720.265	37938.48	372.0265	0.133217	0.151659	0.500423	5.522552	1064.565	0.144917	0.138648	0.010064	0.167335	0%
MTC	2017	Motor Coa	Aggregate		Aggregate	Aggregate	DSL	436.672	54346	6375.412	0.402665	0.458403	1.260313	7.022898	1623.858	0.188069	0.179933	0.015341	0.255248	0%
MTC	2017	OBUS	Aggregate		Aggregate	Aggregate	GAS	2617.765	156423.9	52376.24	0.115018	0.165623	2.676059	0.76241	1853.993	0.000089	0.0000819	0.018347	0.035755	0%
MTC	2017	PTO	Aggregate		Aggregate	Aggregate	DSL	0	63654.14	0	0.840061	0.956345	2.949951	10.35056	2185.419	0.314491	0.300886	0.020647	0.343517	0%
MTC	2017	SBUS	Aggregate		Aggregate	Aggregate	GAS	459.2253	23993.4	1836.901	0.10624	0.155026	2.382727	0.612164	885.7778	0.001651	0.001518	0.008765	0.031622	0%
MTC	2017	SBUS	Aggregate		Aggregate	Aggregate	DSL	3085.515	99315.13	35606.42	0.095506	0.108726	0.255921	6.859429	1160.264	0.041744	0.039939	0.010962	0.182377	0%
MTC	2017	T6 Ag	Aggregate		Aggregate	Aggregate	DSL	114.6908	1301.321	504.6395	0.846261	0.963403	2.194556	10.61708	1091.346	0.538236	0.514952	0.01031	0.171544	0%
MTC	2017	T6 CAIRP h	Aggregate		Aggregate	Aggregate	DSL	168.2733	34068.01	2456.791	0.090696	0.10325	0.315436	2.279833	990.5498	0.065493	0.06266	0.009358	0.155701	0%
MTC	2017	T6 CAIRP s	Aggregate		Aggregate	Aggregate	DSL	88.2444	4734.272	1288.368	0.15859	0.180543	0.551054	2.934454	1038.693	0.117357	0.11228	0.009813	0.163268	0%
MTC	2017	T6 instate i	Aggregate		Aggregate	Aggregate	DSL	1333.711	87292.65	6029.656	0.852033	0.969974	1.545863	7.125432	1305.97	0.280125	0.268007	0.012338	0.20528	0%
MTC	2017	T6 instate l	Aggregate		Aggregate	Aggregate	DSL	4404.913	215165.5	19914.44	0.750195	0.85404	1.522212	6.001151	1301.129	0.231294	0.221288	0.012292	0.204519	0%
MTC	2017	T6 instate m	Aggregate		Aggregate	Aggregate	DSL	6321.097	847008.2	72944.58	0.425971	0.484935	1.067559	5.237783	1110.71	0.19682	0.188305	0.010493	0.174588	0%
MTC	2017	T6 instate n	Aggregate		Aggregate	Aggregate	DSL	27471.8	1323850	317020.8	0.415106	0.472567	1.113202	5.037658	1145.492	0.18321	0.175284	0.010822	0.180055	1%
MTC	2017	T6 OOS he	Aggregate		Aggregate	Aggregate	DSL	96.30832	19611.67	1406.101	0.084966	0.096727	0.30842	2.190754	990.647	0.063313	0.060574	0.009359	0.155716	0%
MTC	2017	T6 OOS sm	Aggregate		Aggregate	Aggregate	DSL	50.93734	2726.101	743.6851	0.159294	0.181344	0.55375	2.941832	1039.114	0.117932	0.112831	0.009817	0.163334	0%
MTC	2017	T6 Public	Aggregate		Aggregate	Aggregate	DSL	4496.426	68764.68	13639.16	0.103189	0.117473	0.24714	7.658213	1246.554	0.045621	0.043648	0.011777	0.195941	0%
MTC	2017	T6 utility	Aggregate		Aggregate	Aggregate	DSL	675.2005	11329.32	7764.806	0.038125	0.043402	0.13838	2.572294	1130.601	0.011767	0.011258	0.010681	0.177715	0%
MTC	2017	T6TS	Aggregate		Aggregate	Aggregate	GAS	6421.015	324164.2	128471.7	0.247871	0.351215	5.870872	1.345296	1847.951	0.001934	0.001785	0.018287	0.056992	0%
MTC	2017	T7 Ag	Aggregate		Aggregate	Aggregate	DSL	79.63431	968.2729	350.391	1.384793	1.576481	4.748861	17.10095	1689.429	0.832388	0.796379	0.015961	0.265555	0%
MTC	2017	T7 CAIRP	Aggregate		Aggregate	Aggregate	DSL	3694.166	741815.2	53934.82	0.15761	0.179427	0.568738	4.535632	1496.606	0.084843	0.081173	0.014139	0.235246	0%
MTC	2017	T7 CAIRP c	Aggregate		Aggregate	Aggregate	DSL	311.7664	62703.07	1409.484	0.391688	0.445907	1.166046	6.232773	1899.153	0.090468	0.086555	0.017942	0.29852	0%
MTC	2017	T7 NNOOS	Aggregate		Aggregate	Aggregate	DSL	4334.417	904454.1	63282.48	0.146677	0.166698	0.579141	3.687586	1440.388	0.092744	0.088731	0.013608	0.226409	1%
MTC	2017	T7 NOOS	Aggregate		Aggregate	Aggregate	DSL	1450.225	291421.8	21173.28	0.155537	0.177067	0.56247	4.50111	1497.231	0.08395	0.080318	0.014145	0.235344	0%



MTC	2017 T7 other pr	Aggregate	Aggregate	DSL	396.5299	64912.68	3013.627	0.301138	0.342822	0.970123	6.306274	1906.466	0.035359	0.03383	0.018011	0.29967	0%
MTC	2017 T7 POAK	Aggregate	Aggregate	DSL	3154.376	328272.7	23973.26	0.339778	0.386811	1.058282	6.771671	1933.821	0.038791	0.037113	0.01827	0.30397	0%
MTC	2017 T7 Public	Aggregate	Aggregate	DSL	3485.117	70250.87	10571.52	0.164895	0.187721	0.519479	13.394	1908.56	0.074022	0.07082	0.018031	0.299999	0%
MTC	2017 T7 Single	Aggregate	Aggregate	DSL	4827.503	320575	55708.71	0.56524	0.643483	1.780642	8.552904	1694.913	0.252154	0.241246	0.016013	0.266417	0%
MTC	2017 T7 single c	Aggregate	Aggregate	DSL	2320.973	155554.8	10493.03	1.063596	1.210823	2.358751	10.5102	1948.958	0.326345	0.312228	0.018413	0.306349	0%
MTC	2017 T7 SWCV	Aggregate	Aggregate	DSL	1630.67	66617.5	6359.612	0.030306	0.034501	0.087087	12.15424	4394.642	0.012988	0.012427	0.041518	0.690776	0%
MTC	2017 T7 SWCV	Aggregate	Aggregate	NG	1097.907	44568.9	4281.838	0.225326	4.069237	10.44988	2.522116	3264.761	0.007001	0.006698	0	0.665543	0%
MTC	2017 T7 tractor	Aggregate	Aggregate	DSL	8202.695	1178170	104174.2	0.30635	0.348756	1.072269	6.64575	1484.601	0.167993	0.160726	0.014026	0.233359	1%
MTC	2017 T7 tractor	Aggregate	Aggregate	DSL	1837.839	128319	8308.801	1.071157	1.219431	2.389066	9.837504	1961.007	0.264608	0.253161	0.018527	0.308243	0%
MTC	2017 T7 utility	Aggregate	Aggregate	DSL	280.9977	5701.118	3231.474	0.083822	0.095425	0.314128	5.378828	1759.267	0.020438	0.019554	0.016621	0.276532	0%
MTC	2017 T7IS	Aggregate	Aggregate	GAS	46.17091	3523.831	923.7875	1.31862	1.737224	62.18091	6.029782	2283.622	0.002894	0.002711	0.022598	0.188783	0%
MTC	2017 UBUS	Aggregate	Aggregate	GAS	194.0639	14386.37	776.2558	0.019292	0.028151	0.305953	0.243959	1985.376	0.000669	0.000615	0.019647	0.021501	0%
MTC	2017 UBUS	Aggregate	Aggregate	DSL	2373.819	242552.4	9495.275	0.004559	0.130142	0.416816	3.753715	1708.426	0.0079	0.007558	0.016151	0.268541	0%
MTC	2017 UBUS	Aggregate	Aggregate	ELEC	12.196	1085.632	48.78401	0	0	0	0	0	0	0	0	0	0%
MTC	2017 UBUS	Aggregate	Aggregate	NG	329.1448	31786.04	1316.579	0.136185	6.544882	47.12615	0.760295	1973.124	0.003472	0.003322	0	0.402234	0%

EMFAC2017 (v1.0.2) Emission Rates

Region Type: MPO

Region: MTC

Calendar Year: 2023

Season: Annual

Vehicle Classification: EMFAC2011 Categories

Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN

																Added by ICF			
Region	Calendar Y	Vehicle Cat	Model	Year	Speed	Fuel	Population	VMT	Trips	ROG_RUNE	TOG_RUNE	CO_RUNE	NOx_RUNE	CO2_RUNE	PM10_RUNE	PM2_5_RUNE	SOUx_RUNE	N2O_RUNE	VMT Weighting
MTC	2023	All Other B	Aggregate	Aggregate	DSL		2406.666	146883.6	20215.99	0.010086	0.011483	0.130062	1.843888	1057.655	0.004941	0.004727	0.009992	0.166249	0%
MTC	2023	LDA	Aggregate	Aggregate	GAS		2837969	1.01E+08	13342294	0.008254	0.012041	0.588526	0.035535	255.6233	0.001414	0.0013	0.00253	0.004211	54%
MTC	2023	LDA	Aggregate	Aggregate	DSL		32949.72	1177795	154293.3	0.014487	0.016493	0.221412	0.074245	204.9376	0.007169	0.006859	0.001937	0.032213	1%
MTC	2023	LDA	Aggregate	Aggregate	ELEC		85689.9	3294022	419833.5	0	0	0	0	0	0	0	0	0	2%
MTC	2023	LDT1	Aggregate	Aggregate	GAS		309611.8	10300290	1428635	0.018647	0.027204	0.94734	0.080221	297.9948	0.001799	0.001655	0.002949	0.006612	5%
MTC	2023	LDT1	Aggregate	Aggregate	DSL		175.2909	2877.738	578.0415	0.182511	0.207776	1.090803	1.031947	419.6353	0.144443	0.138195	0.003967	0.065961	0%
MTC	2023	LDT1	Aggregate	Aggregate	ELEC		2815.671	114693.2	14081.08	0	0	0	0	0	0	0	0	0	0%
MTC	2023	LDT2	Aggregate	Aggregate	GAS		989756.5	33424147	4617801	0.012977	0.018934	0.767063	0.065914	319.7575	0.001426	0.001311	0.003164	0.005806	18%
MTC	2023	LDT2	Aggregate	Aggregate	DSL		7404.179	278239.7	35989.18	0.015	0.017077	0.137693	0.039906	277.9141	0.004936	0.004723	0.002627	0.043684	0%
MTC	2023	LDT2	Aggregate	Aggregate	ELEC		12052.25	365829.3	60455.41	0	0	0	0	0	0	0	0	0	0%
MTC	2023	LHD1	Aggregate	Aggregate	GAS		71617.02	2442102	1066987	0.050851	0.074201	0.946001	0.225268	998.6143	0.00236	0.00217	0.009882	0.013612	1%
MTC	2023	LHD1	Aggregate	Aggregate	DSL		55769.72	2043873	701512.9	0.162984	0.185546	0.711119	1.747575	544.1254	0.023769	0.022741	0.005144	0.085529	1%
MTC	2023	LHD2	Aggregate	Aggregate	GAS		10024.12	343752.8	149344.5	0.033521	0.048913	0.620831	0.211142	1139.406	0.002135	0.001963	0.011275	0.013647	0%
MTC	2023	LHD2	Aggregate	Aggregate	DSL		20415.19	753195.8	256797.4	0.150186	0.170977	0.653828	1.298145	608.5179	0.022846	0.021858	0.005753	0.095651	0%
MTC	2023	MCY	Aggregate	Aggregate	GAS		143252.7	1083656	286505.5	2.340088	2.890019	20.11946	1.168331	215.4715	0.002063	0.001929	0.002132	0.066995	1%
MTC	2023	MDV	Aggregate	Aggregate	GAS		631583.8	20750387	2915404	0.016651	0.024264	0.861229	0.083338	388.081	0.001489	0.001369	0.00384	0.006925	11%
MTC	2023	MDV	Aggregate	Aggregate	DSL		16591.44	616607.3	80152.97	0.010618	0.012088	0.198208	0.038879	362.4854	0.0043	0.004114	0.003427	0.056978	0%
MTC	2023	MDV	Aggregate	Aggregate	ELEC		6086.67	193340.6	30969.74	0	0	0	0	0	0	0	0	0	0%
MTC	2023	MH	Aggregate	Aggregate	GAS		11674.35	108897.9	1167.902	0.05445	0.079453	1.337365	0.362695	1737.241	0.001657	0.001524	0.017191	0.023345	0%
MTC	2023	MH	Aggregate	Aggregate	DSL		4500.277	42453.77	450.0277	0.108866	0.123936	0.384745	4.151862	1011.939	0.090913	0.08698	0.009566	0.159063	0%
MTC	2023	Motor Coa	Aggregate	Aggregate	DSL		438.6342	61814.94	6404.06	0.018655	0.021238	0.17336	2.022323	1482.51	0.024228	0.02318	0.014006	0.23303	0%
MTC	2023	OBUS	Aggregate	Aggregate	GAS		2431.176	119904.6	48642.97	0.064317	0.093852	1.417144	0.451272	1759.256	0.001067	0.000981	0.017409	0.022857	0%
MTC	2023	PTO	Aggregate	Aggregate	DSL		0	66630.45	0	0.026164	0.029786	0.39924	4.337535	1973.001	0.00518	0.004956	0.01864	0.310128	0%
MTC	2023	SBUS	Aggregate	Aggregate	GAS		789.3123	37859.85	3157.249	0.048071	0.070144	1.01358	0.36743	843.2648	0.001437	0.001321	0.008345	0.021664	0%
MTC	2023	SBUS	Aggregate	Aggregate	DSL		3576.412	114048.9	41271.3	0.082416	0.093825	0.23984	5.492774	1102.339	0.034121	0.032645	0.010414	0.173272	0%
MTC	2023	T6 Ag	Aggregate	Aggregate	DSL		105.2955	959.466	463.3003	0.009781	0.011135	0.076221	1.942859	1061.733	0.01866	0.017853	0.010031	0.16689	0%
MTC	2023	T6 CAIRP h	Aggregate	Aggregate	DSL		196.517	38274.01	2869.148	0.007777	0.008854	0.064455	0.94757	871.7628	0.009893	0.009465	0.008236	0.137029	0%
MTC	2023	T6 CAIRP s	Aggregate	Aggregate	DSL		104.6443	5465.87	1527.806	0.007811	0.008892	0.064732	0.955014	922.6738	0.010003	0.00957	0.008717	0.145031	0%
MTC	2023	T6 instate i	Aggregate	Aggregate	DSL		1315.491	86622.46	5947.282	0.027406	0.031199	0.20207	2.420673	1184.797	0.01273	0.012179	0.011193	0.186234	0%
MTC	2023	T6 instate l	Aggregate	Aggregate	DSL		3708.599	208020.2	16766.43	0.015104	0.017194	0.184408	2.023626	1175.353	0.008574	0.008203	0.011104	0.184749	0%
MTC	2023	T6 instate l	Aggregate	Aggregate	DSL		7447.538	1016016	85943.55	0.009355	0.01065	0.10213	1.43489	954.7896	0.00685	0.006553	0.00902	0.15008	1%
MTC	2023	T6 instate :	Aggregate	Aggregate	DSL		28015.5	1453791	323295	0.008997	0.010242	0.102112	1.437231	1002.498	0.006791	0.006497	0.009471	0.157579	1%
MTC	2023	T6 OOS he	Aggregate	Aggregate	DSL		114.2798	22317.06	1668.486	0.007767	0.008843	0.064374	0.944465	871.1454	0.009861	0.009435	0.00823	0.136932	0%
MTC	2023	T6 OOS sm	Aggregate	Aggregate	DSL		60.13264	3118.922	877.9365	0.007828	0.008912	0.064878	0.960479	923.6752	0.010061	0.009625	0.008726	0.145189	0%
MTC	2023	T6 Public	Aggregate	Aggregate	DSL		5253.893	83541.52	15936.81	0.055621	0.06332	0.179426	4.076101	1118.461	0.022462	0.02149	0.010567	0.175807	0%
MTC	2023	T6 utility	Aggregate	Aggregate	DSL		711.1713	11919.29	8178.47	0.007363	0.008382	0.08617	0.987341	996.5089	0.003535	0.003382	0.009415	0.156637	0%
MTC	2023	T6TS	Aggregate	Aggregate	GAS		6840.192	370679.3	136858.6	0.062643	0.091408	1.431676	0.41449	1711.807	0.001368	0.001258	0.01694	0.021169	0%
MTC	2023	T7 Ag	Aggregate	Aggregate	DSL		76.71831	750.7578	337.5606	0.020453	0.023284	0.173974	3.321223	1627.422	0.034446	0.032956	0.015375	0.255808	0%
MTC	2023	T7 CAIRP	Aggregate	Aggregate	DSL		4636.324	843683.4	67690.34	0.02114	0.024066	0.196452	2.341303	1314.336	0.031251	0.029899	0.012417	0.206595	0%
MTC	2023	T7 CAIRP c	Aggregate	Aggregate	DSL		341.2234	62221.67	1542.658	0.036691	0.041769	0.511342	4.216213	1667.23	0.022494	0.021521	0.015751	0.262065	0%
MTC	2023	T7 NNOOS	Aggregate	Aggregate	DSL		5205.83	1028702	76005.12	0.018921	0.02154	0.175827	1.958947	1232.346	0.025029	0.023946	0.011643	0.193708	1%
MTC	2023	T7 NOOS	Aggregate	Aggregate	DSL		1837.149	331436.9	26822.38	0.021156	0.024085	0.196601	2.345534	1314.976	0.031295	0.029942	0.012423	0.206696	0%

MTC	2023 T7 other pr	Aggregate	Aggregate	DSL	467.5232	80820.81	3553.176	0.02855	0.032502	0.407567	3.833969	1605.416	0.015083	0.01443	0.015167	0.252349	0%
MTC	2023 T7 POAK	Aggregate	Aggregate	DSL	3725.753	451633.1	28315.72	0.029526	0.033613	0.421496	4.010918	1639.182	0.016048	0.015353	0.015486	0.257657	0%
MTC	2023 T7 Public	Aggregate	Aggregate	DSL	3413.9	69207.87	10355.5	0.136238	0.155097	0.472421	9.933456	1784.893	0.055396	0.053	0.016863	0.28056	0%
MTC	2023 T7 Single	Aggregate	Aggregate	DSL	5159.982	335564.3	59545.48	0.018413	0.020962	0.215175	2.161158	1464.147	0.012402	0.011866	0.013833	0.230144	0%
MTC	2023 T7 single c	Aggregate	Aggregate	DSL	2224.389	154360.5	10056.38	0.044122	0.05023	0.426235	3.533915	1726.738	0.018044	0.017264	0.016313	0.271419	0%
MTC	2023 T7 SWCV	Aggregate	Aggregate	DSL	1169.96	47798.21	4562.845	0.036215	0.041228	0.101755	11.06948	4347.964	0.012841	0.012286	0.041077	0.683439	0%
MTC	2023 T7 SWCV	Aggregate	Aggregate	NG	1539.429	62755.08	6003.774	0.126478	3.537917	10.86301	1.31224	3124.293	0.004574	0.004376	0	0.636907	0%
MTC	2023 T7 tractor	Aggregate	Aggregate	DSL	9973.044	1377259	126657.7	0.018515	0.021078	0.159951	2.024209	1264.556	0.027812	0.026608	0.011947	0.198771	1%
MTC	2023 T7 tractor	Aggregate	Aggregate	DSL	1869.249	127333.8	8450.803	0.043654	0.049697	0.525241	4.462799	1734.409	0.024298	0.023247	0.016386	0.272625	0%
MTC	2023 T7 utility	Aggregate	Aggregate	DSL	295.6852	6000.586	3400.38	0.015525	0.017674	0.202323	1.7843	1626.644	0.006604	0.006318	0.015368	0.255686	0%
MTC	2023 T7IS	Aggregate	Aggregate	GAS	30.80813	3664.9	616.4091	0.41128	0.600138	32.41629	3.375764	2024.348	0.001037	0.000954	0.020033	0.136564	0%
MTC	2023 UBUS	Aggregate	Aggregate	GAS	200.2088	14841.9	800.835	0.018054	0.026345	0.323754	0.250398	1860.533	0.00162	0.00149	0.018411	0.021021	0%
MTC	2023 UBUS	Aggregate	Aggregate	DSL	2268.86	228388.6	9075.438	0.001612	0.110609	0.180163	1.398286	1594.664	0.006374	0.006099	0.015075	0.250659	0%
MTC	2023 UBUS	Aggregate	Aggregate	ELEC	12.196	1085.632	48.78401	0	0	0	0	0	0	0	0	0	0%
MTC	2023 UBUS	Aggregate	Aggregate	NG	537.1286	54670.86	2148.514	0.087555	6.246283	47.29567	0.471991	1955.378	0.003229	0.00309	0	0.398617	0%

EMFAC2017 (v1.0.2) Emission Rates

Region Type: MPO

Region: MTC

Calendar Year: 2043

Season: Annual

Vehicle Classification: EMFAC2011 Categories

Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	VMT	Trips	ROG_RUNEX	TOG_RUNEX	CO_RUNEX	NOx_RUNEX	CO2_RUNEX	PM10_RUNEX	PM2_5_RUNEX	SOx_RUNEX	N2O_RUNEX	VMT Weighting	Added by ICF
MTC	2043	All Other B	Aggregatec	Aggregatec	DSL	3371.816	175371.2	28323.25	0.010489	0.011941	0.135256	2.016016	885.5861	0.005374	0.005141	0.008367	0.139202	0%	
MTC	2043	LDA	Aggregatec	Aggregatec	GAS	3806003	1.16E+08	17801068	0.001705	0.002487	0.365484	0.017437	192.4409	0.000537	0.000494	0.001904	0.002917	52%	
MTC	2043	LDA	Aggregatec	Aggregatec	DSL	47189.16	1443837	221234.3	0.00428	0.004873	0.140148	0.00869	155.6327	0.000771	0.000737	0.001471	0.024463	1%	
MTC	2043	LDA	Aggregatec	Aggregatec	ELEC	246383.6	7945294	1162933	0	0	0	0	0	0	0	0	0	4%	
MTC	2043	LDT1	Aggregatec	Aggregatec	GAS	428138.2	11983908	1972517	0.001866	0.002723	0.370947	0.018725	222.8	0.000578	0.000531	0.002205	0.003017	5%	
MTC	2043	LDT1	Aggregatec	Aggregatec	DSL	59.38532	1669.797	274.1511	0.01417	0.016132	0.149214	0.034836	295.5945	0.004422	0.00423	0.002794	0.046463	0%	
MTC	2043	LDT1	Aggregatec	Aggregatec	ELEC	16321.62	505253.9	76624.39	0	0	0	0	0	0	0	0	0	0%	
MTC	2043	LDT2	Aggregatec	Aggregatec	GAS	1294747	36751077	5992180	0.002536	0.003701	0.426172	0.018211	221.5624	0.000559	0.000514	0.002193	0.002916	17%	
MTC	2043	LDT2	Aggregatec	Aggregatec	DSL	13213.54	379985.4	61609.53	0.013868	0.015787	0.144305	0.028852	206.7199	0.004205	0.004024	0.001954	0.032493	0%	
MTC	2043	LDT2	Aggregatec	Aggregatec	ELEC	57768.92	1249922	272144.1	0	0	0	0	0	0	0	0	0	1%	
MTC	2043	LHD1	Aggregatec	Aggregatec	GAS	81784.12	2466993	1218462	0.006316	0.009217	0.153578	0.071864	819.1731	0.002218	0.002039	0.008106	0.006725	1%	
MTC	2043	LHD1	Aggregatec	Aggregatec	DSL	80952.9	2456699	1018286	0.125793	0.143207	0.583889	0.133085	439.6305	0.007846	0.007506	0.004156	0.069104	1%	
MTC	2043	LHD2	Aggregatec	Aggregatec	GAS	12431.93	371698.7	185217.3	0.006138	0.008956	0.150829	0.081934	937.3649	0.00221	0.002032	0.009276	0.007619	0%	
MTC	2043	LHD2	Aggregatec	Aggregatec	DSL	33192.95	966678.6	417525.6	0.127757	0.145443	0.597882	0.190754	495.8626	0.01742	0.016667	0.004688	0.077943	0%	
MTC	2043	MCY	Aggregatec	Aggregatec	GAS	193054.6	1194278	386109.1	2.19143	2.750677	17.70375	1.147997	214.088	0.002333	0.002175	0.002119	0.065932	1%	
MTC	2043	MDV	Aggregatec	Aggregatec	GAS	831097.4	23090539	3817287	0.002851	0.004159	0.434859	0.02028	269.202	0.000572	0.000526	0.002664	0.003059	10%	
MTC	2043	MDV	Aggregatec	Aggregatec	DSL	29607.61	837389.2	137312.3	0.004772	0.005432	0.154577	0.009371	268.3317	0.000898	0.00086	0.002537	0.042178	0%	
MTC	2043	MDV	Aggregatec	Aggregatec	ELEC	42275.16	911922.7	198968.2	0	0	0	0	0	0	0	0	0	0%	
MTC	2043	MH	Aggregatec	Aggregatec	GAS	13101.87	115632.3	1310.711	0.010848	0.015829	0.167543	0.150668	1406.201	0.0014	0.001288	0.013915	0.015512	0%	
MTC	2043	MH	Aggregatec	Aggregatec	DSL	6497.155	51024.86	649.7155	0.075621	0.08609	0.22203	2.551895	837.5303	0.02441	0.023354	0.007918	0.131648	0%	
MTC	2043	Motor Coa	Aggregatec	Aggregatec	DSL	630.3375	78758.97	9202.927	0.018066	0.020567	0.167883	1.766434	1177.913	0.022661	0.02168	0.011128	0.185151	0%	
MTC	2043	OBUS	Aggregatec	Aggregatec	GAS	2485.571	102310.5	49731.3	0.016759	0.024455	0.315881	0.265292	1410.548	0.001387	0.001275	0.013959	0.018344	0%	
MTC	2043	PTO	Aggregatec	Aggregatec	DSL	0	70950.88	0	0.026068	0.029677	0.417478	4.763211	1568.017	0.005139	0.004917	0.014814	0.24647	0%	
MTC	2043	SBUS	Aggregatec	Aggregatec	GAS	1899.393	79458.74	7597.572	0.011739	0.01713	0.209463	0.137526	720.4024	0.001569	0.001443	0.007129	0.013025	0%	
MTC	2043	SBUS	Aggregatec	Aggregatec	DSL	4933.183	156692.1	56928.25	0.010809	0.012305	0.101487	1.437262	838.6258	0.007939	0.007596	0.007923	0.13182	0%	
MTC	2043	T6 Ag	Aggregatec	Aggregatec	DSL	58.80809	51.36545	258.7556	0.011994	0.013654	0.093465	2.518068	1061.733	0.026274	0.025138	0.010031	0.16689	0%	
MTC	2043	T6 CAIRP h	Aggregatec	Aggregatec	DSL	295.341	48505.98	4311.979	0.007785	0.008863	0.06452	0.918201	680.0264	0.00993	0.009501	0.006425	0.106891	0%	
MTC	2043	T6 CAIRP si	Aggregatec	Aggregatec	DSL	165.6512	7008.395	2418.507	0.007924	0.009021	0.065672	0.94941	754.1743	0.010389	0.009939	0.007125	0.118546	0%	
MTC	2043	T6 instate (	Aggregatec	Aggregatec	DSL	2079.51	138229	9401.384	0.016898	0.019237	0.207207	2.488599	1011.991	0.011042	0.010565	0.009561	0.159071	0%	
MTC	2043	T6 instate r	Aggregatec	Aggregatec	DSL	6616.748	328133.7	29914.06	0.014745	0.016786	0.184387	2.057193	942.7181	0.008543	0.008173	0.008906	0.148182	0%	
MTC	2043	T6 instate l	Aggregatec	Aggregatec	DSL	13715.6	1373372	158276.1	0.009443	0.01075	0.107288	1.567665	762.2032	0.007614	0.007285	0.007201	0.119808	1%	
MTC	2043	T6 instate s	Aggregatec	Aggregatec	DSL	39892.11	1786080	460349.4	0.009015	0.010263	0.102575	1.450744	805.3205	0.006878	0.006581	0.007608	0.126585	1%	
MTC	2043	T6 OOS he	Aggregatec	Aggregatec	DSL	171.9945	28438.82	2511.12	0.007776	0.008852	0.064444	0.91616	679.7676	0.0099	0.009472	0.006422	0.10685	0%	
MTC	2043	T6 OOS sm	Aggregatec	Aggregatec	DSL	95.45594	3984.215	1393.657	0.007951	0.009051	0.065895	0.956069	755.583	0.010477	0.010024	0.007138	0.118767	0%	
MTC	2043	T6 Public	Aggregatec	Aggregatec	DSL	7086.959	110063.7	21497.11	0.011581	0.013184	0.11509	1.333712	870.9318	0.004764	0.004558	0.008228	0.136898	0%	
MTC	2043	T6 utility	Aggregatec	Aggregatec	DSL	824.5609	13741.86	9482.451	0.007263	0.008268	0.084999	0.936529	787.0548	0.003382	0.003236	0.007436	0.123714	0%	
MTC	2043	T6TS	Aggregatec	Aggregatec	GAS	10423.18	490269.2	208546.9	0.01099	0.016037	0.191878	0.089734	1393.147	0.00141	0.001296	0.013786	0.00875	0%	
MTC	2043	T7 Ag	Aggregatec	Aggregatec	DSL	73.95494	59.98421	325.4017	0.025057	0.028525	0.213131	4.296139	1627.422	0.048216	0.046131	0.015375	0.255808	0%	
MTC	2043	T7 CAIRP	Aggregatec	Aggregatec	DSL	5133.327	1074797	74946.58	0.019949	0.022711	0.185385	2.047442	942.1032	0.027969	0.026759	0.008901	0.148086	0%	
MTC	2043	T7 CAIRP cr	Aggregatec	Aggregatec	DSL	564.254	99291.06	2550.97	0.035375	0.040271	0.492858	3.997717	1278.037	0.020953	0.020047	0.012074	0.20089	0%	
MTC	2043	T7 NNOOS	Aggregatec	Aggregatec	DSL	7985.318	1310650	116585.6	0.018733	0.021326	0.17408	1.86529	942.343	0.024541	0.023479	0.008903	0.148123	1%	

MTC	2043 T7 NOOS	Aggregatec	Aggregatec	DSL	2039.189	422211.3	29772.16	0.019973	0.022738	0.185606	2.051177	942.5924	0.028036	0.026823	0.008905	0.148162	0%
MTC	2043 T7 other pc	Aggregatec	Aggregatec	DSL	672.2513	114493.8	5109.11	0.028801	0.032788	0.411155	3.932097	1150.639	0.015458	0.014789	0.010871	0.180864	0%
MTC	2043 T7 POAK	Aggregatec	Aggregatec	DSL	5655.274	973668.6	42980.08	0.029017	0.033033	0.414227	3.973561	1150.696	0.015677	0.014999	0.010871	0.180873	0%
MTC	2043 T7 Public	Aggregatec	Aggregatec	DSL	3267.951	66221.02	9912.785	0.036812	0.041908	0.278436	2.912807	1282.274	0.011106	0.010626	0.012114	0.201556	0%
MTC	2043 T7 Single	Aggregatec	Aggregatec	DSL	4514.67	357322.8	52098.67	0.018384	0.020929	0.22465	2.215089	1163.138	0.013666	0.013074	0.010989	0.182829	0%
MTC	2043 T7 single c	Aggregatec	Aggregatec	DSL	3229.791	246322.9	14601.76	0.031162	0.035475	0.429974	3.262491	1361.888	0.015642	0.014966	0.012866	0.21407	0%
MTC	2043 T7 SWCV	Aggregatec	Aggregatec	DSL	242.6581	9909.476	946.3667	0.036709	0.04179	0.101087	7.812139	3955.904	0.013272	0.012698	0.037373	0.621813	0%
MTC	2043 T7 SWCV	Aggregatec	Aggregatec	NG	1988.296	81073.33	7754.354	0.054542	3.16059	11.171	0.444095	2478.646	0.002995	0.002865	0	0.505288	0%
MTC	2043 T7 tractor	Aggregatec	Aggregatec	DSL	14639.68	1835686	185924	0.018117	0.020625	0.156783	1.746726	921.15	0.026654	0.025501	0.008703	0.144792	1%
MTC	2043 T7 tractor c	Aggregatec	Aggregatec	DSL	2726.139	203194.7	12324.77	0.036589	0.041653	0.508728	4.185209	1333.108	0.022298	0.021333	0.012595	0.209546	0%
MTC	2043 T7 utility	Aggregatec	Aggregatec	DSL	341.2539	6918.033	3924.42	0.015685	0.017856	0.204415	1.706759	1175.664	0.006851	0.006555	0.011107	0.184798	0%
MTC	2043 T7IS	Aggregatec	Aggregatec	GAS	40.98592	4563.088	820.0464	0.31566	0.46061	29.86401	3.016174	1527.212	0.001176	0.001081	0.015113	0.127592	0%
MTC	2043 UBUS	Aggregatec	Aggregatec	GAS	201.3002	14922.81	805.201	0.017196	0.025093	0.2941	0.209559	1474.783	0.002356	0.002166	0.014594	0.018564	0%
MTC	2043 UBUS	Aggregatec	Aggregatec	DSL	2011.736	202920.4	8046.945	0.001149	0.076986	0.127888	0.787353	1496.276	0.005811	0.00556	0.014145	0.235194	0%
MTC	2043 UBUS	Aggregatec	Aggregatec	NG	822.4546	82773.75	3289.818	0.088455	6.313219	47.85632	0.475793	1968.933	0.00325	0.003109	0	0.40138	0%

# **EMFAC2017 Output Files – CH4 Emission Factor Calculations**

**EMFAC2017 Desktop Module Output**

calendar_year	season_month	sub_area	vehicle_class	fuel	temperature	relative_humidity	process	speed_time	pollutant	emission_rate	Added by ICF VMT from Web Tool	Added by ICF VMT Weighting
2017	Annual	Santa Clara (SF)	All Other Buses	Dsl	68		40 RUNEX	5 CH4		0.070495638	677	0%
2017	Annual	Santa Clara (SF)	All Other Buses	Dsl	68		40 RUNEX	10 CH4		0.054021875	2047	0%
2017	Annual	Santa Clara (SF)	All Other Buses	Dsl	68		40 RUNEX	15 CH4		0.029321933	2328	0%
2017	Annual	Santa Clara (SF)	All Other Buses	Dsl	68		40 RUNEX	20 CH4		0.014369378	2704	0%
2017	Annual	Santa Clara (SF)	All Other Buses	Dsl	68		40 RUNEX	25 CH4		0.010384538	3289	0%
2017	Annual	Santa Clara (SF)	All Other Buses	Dsl	68		40 RUNEX	30 CH4		0.008548979	4485	0%
2017	Annual	Santa Clara (SF)	All Other Buses	Dsl	68		40 RUNEX	35 CH4		0.007115136	8250	0%
2017	Annual	Santa Clara (SF)	All Other Buses	Dsl	68		40 RUNEX	40 CH4		0.006069703	9808	0%
2017	Annual	Santa Clara (SF)	All Other Buses	Dsl	68		40 RUNEX	45 CH4		0.00540211	6216	0%
2017	Annual	Santa Clara (SF)	All Other Buses	Dsl	68		40 RUNEX	50 CH4		0.005103609	1835	0%
2017	Annual	Santa Clara (SF)	All Other Buses	Dsl	68		40 RUNEX	55 CH4		0.005166602	454	0%
2017	Annual	Santa Clara (SF)	All Other Buses	Dsl	68		40 RUNEX	60 CH4		0.005360583	33	0%
2017	Annual	Santa Clara (SF)	All Other Buses	Dsl	68		40 RUNEX	65 CH4		0.005425392	0	0%
2017	Annual	Santa Clara (SF)	All Other Buses	Dsl	68		40 RUNEX	70 CH4		0.005467902	0	0%
2017	Annual	Santa Clara (SF)	All Other Buses	Dsl	68		40 RUNEX	75 CH4		0.005520888	0	0%
2017	Annual	Santa Clara (SF)	All Other Buses	Dsl	68		40 RUNEX	80 CH4		0.005584351	0	0%
2017	Annual	Santa Clara (SF)	All Other Buses	Dsl	68		40 RUNEX	85 CH4		0.00565829	0	0%
2017	Annual	Santa Clara (SF)	All Other Buses	Dsl	68		40 RUNEX	90 CH4		0.005742707	0	0%
2017	Annual	Santa Clara (SF)	LDA	Dsl	68		40 RUNEX	5 CH4		0.011376008	262	0%
2017	Annual	Santa Clara (SF)	LDA	Dsl	68		40 RUNEX	10 CH4		0.008339157	182	0%
2017	Annual	Santa Clara (SF)	LDA	Dsl	68		40 RUNEX	15 CH4		0.004635605	774	0%
2017	Annual	Santa Clara (SF)	LDA	Dsl	68		40 RUNEX	20 CH4		0.002440878	2832	0%
2017	Annual	Santa Clara (SF)	LDA	Dsl	68		40 RUNEX	25 CH4		0.001722518	6835	0%
2017	Annual	Santa Clara (SF)	LDA	Dsl	68		40 RUNEX	30 CH4		0.001383686	55140	0%
2017	Annual	Santa Clara (SF)	LDA	Dsl	68		40 RUNEX	35 CH4		0.001168266	12011	0%
2017	Annual	Santa Clara (SF)	LDA	Dsl	68		40 RUNEX	40 CH4		0.001031102	12362	0%
2017	Annual	Santa Clara (SF)	LDA	Dsl	68		40 RUNEX	45 CH4		0.000949138	23561	0%
2017	Annual	Santa Clara (SF)	LDA	Dsl	68		40 RUNEX	50 CH4		0.000910898	8155	0%
2017	Annual	Santa Clara (SF)	LDA	Dsl	68		40 RUNEX	55 CH4		0.000912284	15710	0%
2017	Annual	Santa Clara (SF)	LDA	Dsl	68		40 RUNEX	60 CH4		0.000966492	37207	0%
2017	Annual	Santa Clara (SF)	LDA	Dsl	68		40 RUNEX	65 CH4		0.001078549	15582	0%
2017	Annual	Santa Clara (SF)	LDA	Dsl	68		40 RUNEX	70 CH4		0.001156677	0	0%
2017	Annual	Santa Clara (SF)	LDA	Dsl	68		40 RUNEX	75 CH4		0.001156677	0	0%
2017	Annual	Santa Clara (SF)	LDA	Dsl	68		40 RUNEX	80 CH4		0.001156677	0	0%
2017	Annual	Santa Clara (SF)	LDA	Dsl	68		40 RUNEX	85 CH4		0.001156677	0	0%
2017	Annual	Santa Clara (SF)	LDA	Dsl	68		40 RUNEX	90 CH4		0.001156677	0	0%
2017	Annual	Santa Clara (SF)	LDA	Gas	68		40 RUNEX	5 CH4		0.033128664	34437	0%
2017	Annual	Santa Clara (SF)	LDA	Gas	68		40 RUNEX	10 CH4		0.02238352	23851	0%
2017	Annual	Santa Clara (SF)	LDA	Gas	68		40 RUNEX	15 CH4		0.015833568	101508	0%
2017	Annual	Santa Clara (SF)	LDA	Gas	68		40 RUNEX	20 CH4		0.011722875	371519	1%
2017	Annual	Santa Clara (SF)	LDA	Gas	68		40 RUNEX	25 CH4		0.009081912	896704	2%
2017	Annual	Santa Clara (SF)	LDA	Gas	68		40 RUNEX	30 CH4		0.007360475	7233753	16%
2017	Annual	Santa Clara (SF)	LDA	Gas	68		40 RUNEX	35 CH4		0.006239368	1575730	4%
2017	Annual	Santa Clara (SF)	LDA	Gas	68		40 RUNEX	40 CH4		0.00553129	1621733	4%
2017	Annual	Santa Clara (SF)	LDA	Gas	68		40 RUNEX	45 CH4		0.005127884	3090962	7%
2017	Annual	Santa Clara (SF)	LDA	Gas	68		40 RUNEX	50 CH4		0.004971437	1069812	2%
2017	Annual	Santa Clara (SF)	LDA	Gas	68		40 RUNEX	55 CH4		0.005040719	2061038	5%
2017	Annual	Santa Clara (SF)	LDA	Gas	68		40 RUNEX	60 CH4		0.00534601	4881125	11%
2017	Annual	Santa Clara (SF)	LDA	Gas	68		40 RUNEX	65 CH4		0.005931655	2044264	5%
2017	Annual	Santa Clara (SF)	LDA	Gas	68		40 RUNEX	70 CH4		0.006355229	0	0%
2017	Annual	Santa Clara (SF)	LDA	Gas	68		40 RUNEX	75 CH4		0.006355229	0	0%
2017	Annual	Santa Clara (SF)	LDA	Gas	68		40 RUNEX	80 CH4		0.006355229	0	0%
2017	Annual	Santa Clara (SF)	LDA	Gas	68		40 RUNEX	85 CH4		0.006355229	0	0%
2017	Annual	Santa Clara (SF)	LDA	Gas	68		40 RUNEX	90 CH4		0.006355229	0	0%
2017	Annual	Santa Clara (SF)	LDT1	Dsl	68		40 RUNEX	5 CH4		0.052864751	2	0%
2017	Annual	Santa Clara (SF)	LDT1	Dsl	68		40 RUNEX	10 CH4		0.0368327	1	0%
2017	Annual	Santa Clara (SF)	LDT1	Dsl	68		40 RUNEX	15 CH4		0.026724085	5	0%
2017	Annual	Santa Clara (SF)	LDT1	Dsl	68		40 RUNEX	20 CH4		0.02029021	17	0%
2017	Annual	Santa Clara (SF)	LDT1	Dsl	68		40 RUNEX	25 CH4		0.016169032	41	0%
2017	Annual	Santa Clara (SF)	LDT1	Dsl	68		40 RUNEX	30 CH4		0.01349333	333	0%
2017	Annual	Santa Clara (SF)	LDT1	Dsl	68		40 RUNEX	35 CH4		0.011783926	73	0%
2017	Annual	Santa Clara (SF)	LDT1	Dsl	68		40 RUNEX	40 CH4		0.010769076	75	0%
2017	Annual	Santa Clara (SF)	LDT1	Dsl	68		40 RUNEX	45 CH4		0.01029859	142	0%
2017	Annual	Santa Clara (SF)	LDT1	Dsl	68		40 RUNEX	50 CH4		0.010305937	49	0%
2017	Annual	Santa Clara (SF)	LDT1	Dsl	68		40 RUNEX	55 CH4		0.010792248	95	0%
2017	Annual	Santa Clara (SF)	LDT1	Dsl	68		40 RUNEX	60 CH4		0.011827338	225	0%
2017	Annual	Santa Clara (SF)	LDT1	Dsl	68		40 RUNEX	65 CH4		0.013564415	94	0%
2017	Annual	Santa Clara (SF)	LDT1	Dsl	68		40 RUNEX	70 CH4		0.014775538	0	0%
2017	Annual	Santa Clara (SF)	LDT1	Dsl	68		40 RUNEX	75 CH4		0.014775538	0	0%
2017	Annual	Santa Clara (SF)	LDT1	Dsl	68		40 RUNEX	80 CH4		0.014775538	0	0%

Emission Factor Summary		
2017	0.012	
2023	0.008	
2043	0.006	

2017 Annual	Santa Clara (SF)	LDT1	Dsl	68	40	RUNEX	85 CH4	0.014775538	0	0%
2017 Annual	Santa Clara (SF)	LDT1	Dsl	68	40	RUNEX	90 CH4	0.014775538	0	0%
2017 Annual	Santa Clara (SF)	LDT1	Gas	68	40	RUNEX	5 CH4	0.060191255	3117	0%
2017 Annual	Santa Clara (SF)	LDT1	Gas	68	40	RUNEX	10 CH4	0.041629117	2159	0%
2017 Annual	Santa Clara (SF)	LDT1	Gas	68	40	RUNEX	15 CH4	0.03008789	9188	0%
2017 Annual	Santa Clara (SF)	LDT1	Gas	68	40	RUNEX	20 CH4	0.022704988	33630	0%
2017 Annual	Santa Clara (SF)	LDT1	Gas	68	40	RUNEX	25 CH4	0.017874592	81169	0%
2017 Annual	Santa Clara (SF)	LDT1	Gas	68	40	RUNEX	30 CH4	0.014670828	654793	1%
2017 Annual	Santa Clara (SF)	LDT1	Gas	68	40	RUNEX	35 CH4	0.012547858	142634	0%
2017 Annual	Santa Clara (SF)	LDT1	Gas	68	40	RUNEX	40 CH4	0.011180348	146798	0%
2017 Annual	Santa Clara (SF)	LDT1	Gas	68	40	RUNEX	45 CH4	0.010376972	279791	1%
2017 Annual	Santa Clara (SF)	LDT1	Gas	68	40	RUNEX	50 CH4	0.010033628	96838	0%
2017 Annual	Santa Clara (SF)	LDT1	Gas	68	40	RUNEX	55 CH4	0.010109715	186563	0%
2017 Annual	Santa Clara (SF)	LDT1	Gas	68	40	RUNEX	60 CH4	0.010619566	441835	1%
2017 Annual	Santa Clara (SF)	LDT1	Gas	68	40	RUNEX	65 CH4	0.011636389	185045	0%
2017 Annual	Santa Clara (SF)	LDT1	Gas	68	40	RUNEX	70 CH4	0.012377865	0	0%
2017 Annual	Santa Clara (SF)	LDT1	Gas	68	40	RUNEX	75 CH4	0.012377865	0	0%
2017 Annual	Santa Clara (SF)	LDT1	Gas	68	40	RUNEX	80 CH4	0.012377865	0	0%
2017 Annual	Santa Clara (SF)	LDT1	Gas	68	40	RUNEX	85 CH4	0.012377865	0	0%
2017 Annual	Santa Clara (SF)	LDT1	Gas	68	40	RUNEX	90 CH4	0.012377865	0	0%
2017 Annual	Santa Clara (SF)	LDT2	Dsl	68	40	RUNEX	5 CH4	0.012333621	56	0%
2017 Annual	Santa Clara (SF)	LDT2	Dsl	68	40	RUNEX	10 CH4	0.009170743	39	0%
2017 Annual	Santa Clara (SF)	LDT2	Dsl	68	40	RUNEX	15 CH4	0.004675938	165	0%
2017 Annual	Santa Clara (SF)	LDT2	Dsl	68	40	RUNEX	20 CH4	0.002042257	604	0%
2017 Annual	Santa Clara (SF)	LDT2	Dsl	68	40	RUNEX	25 CH4	0.001316288	1458	0%
2017 Annual	Santa Clara (SF)	LDT2	Dsl	68	40	RUNEX	30 CH4	0.001023277	11761	0%
2017 Annual	Santa Clara (SF)	LDT2	Dsl	68	40	RUNEX	35 CH4	0.000837547	2562	0%
2017 Annual	Santa Clara (SF)	LDT2	Dsl	68	40	RUNEX	40 CH4	0.000714321	2637	0%
2017 Annual	Santa Clara (SF)	LDT2	Dsl	68	40	RUNEX	45 CH4	0.000631506	5025	0%
2017 Annual	Santa Clara (SF)	LDT2	Dsl	68	40	RUNEX	50 CH4	0.000577554	1739	0%
2017 Annual	Santa Clara (SF)	LDT2	Dsl	68	40	RUNEX	55 CH4	0.000546658	3351	0%
2017 Annual	Santa Clara (SF)	LDT2	Dsl	68	40	RUNEX	60 CH4	0.000552551	7936	0%
2017 Annual	Santa Clara (SF)	LDT2	Dsl	68	40	RUNEX	65 CH4	0.000591918	3324	0%
2017 Annual	Santa Clara (SF)	LDT2	Dsl	68	40	RUNEX	70 CH4	0.000619365	0	0%
2017 Annual	Santa Clara (SF)	LDT2	Dsl	68	40	RUNEX	75 CH4	0.000619365	0	0%
2017 Annual	Santa Clara (SF)	LDT2	Dsl	68	40	RUNEX	80 CH4	0.000619365	0	0%
2017 Annual	Santa Clara (SF)	LDT2	Dsl	68	40	RUNEX	85 CH4	0.000619365	0	0%
2017 Annual	Santa Clara (SF)	LDT2	Dsl	68	40	RUNEX	90 CH4	0.000619365	0	0%
2017 Annual	Santa Clara (SF)	LDT2	Gas	68	40	RUNEX	5 CH4	0.039220182	11592	0%
2017 Annual	Santa Clara (SF)	LDT2	Gas	68	40	RUNEX	10 CH4	0.026736515	8029	0%
2017 Annual	Santa Clara (SF)	LDT2	Gas	68	40	RUNEX	15 CH4	0.019070518	34170	0%
2017 Annual	Santa Clara (SF)	LDT2	Gas	68	40	RUNEX	20 CH4	0.014224296	125063	0%
2017 Annual	Santa Clara (SF)	LDT2	Gas	68	40	RUNEX	25 CH4	0.011088572	301853	1%
2017 Annual	Santa Clara (SF)	LDT2	Gas	68	40	RUNEX	30 CH4	0.009030249	2435067	6%
2017 Annual	Santa Clara (SF)	LDT2	Gas	68	40	RUNEX	35 CH4	0.007679857	530431	1%
2017 Annual	Santa Clara (SF)	LDT2	Gas	68	40	RUNEX	40 CH4	0.006819291	545917	1%
2017 Annual	Santa Clara (SF)	LDT2	Gas	68	40	RUNEX	45 CH4	0.006321511	1040497	2%
2017 Annual	Santa Clara (SF)	LDT2	Gas	68	40	RUNEX	50 CH4	0.006118174	360126	1%
2017 Annual	Santa Clara (SF)	LDT2	Gas	68	40	RUNEX	55 CH4	0.006183329	693798	2%
2017 Annual	Santa Clara (SF)	LDT2	Gas	68	40	RUNEX	60 CH4	0.006527606	1643112	4%
2017 Annual	Santa Clara (SF)	LDT2	Gas	68	40	RUNEX	65 CH4	0.007200974	688152	2%
2017 Annual	Santa Clara (SF)	LDT2	Gas	68	40	RUNEX	70 CH4	0.007690189	0	0%
2017 Annual	Santa Clara (SF)	LDT2	Gas	68	40	RUNEX	75 CH4	0.007690189	0	0%
2017 Annual	Santa Clara (SF)	LDT2	Gas	68	40	RUNEX	80 CH4	0.007690189	0	0%
2017 Annual	Santa Clara (SF)	LDT2	Gas	68	40	RUNEX	85 CH4	0.007690189	0	0%
2017 Annual	Santa Clara (SF)	LDT2	Gas	68	40	RUNEX	90 CH4	0.007690189	0	0%
2017 Annual	Santa Clara (SF)	LHD1	Dsl	68	40	RUNEX	5 CH4	0.035432436	7120	0%
2017 Annual	Santa Clara (SF)	LHD1	Dsl	68	40	RUNEX	10 CH4	0.025500611	18225	0%
2017 Annual	Santa Clara (SF)	LHD1	Dsl	68	40	RUNEX	15 CH4	0.015715377	45887	0%
2017 Annual	Santa Clara (SF)	LHD1	Dsl	68	40	RUNEX	20 CH4	0.009807351	49018	0%
2017 Annual	Santa Clara (SF)	LHD1	Dsl	68	40	RUNEX	25 CH4	0.007376969	51608	0%
2017 Annual	Santa Clara (SF)	LHD1	Dsl	68	40	RUNEX	30 CH4	0.006050275	41326	0%
2017 Annual	Santa Clara (SF)	LHD1	Dsl	68	40	RUNEX	35 CH4	0.005204762	22601	0%
2017 Annual	Santa Clara (SF)	LHD1	Dsl	68	40	RUNEX	40 CH4	0.004684532	11784	0%
2017 Annual	Santa Clara (SF)	LHD1	Dsl	68	40	RUNEX	45 CH4	0.004407163	11713	0%
2017 Annual	Santa Clara (SF)	LHD1	Dsl	68	40	RUNEX	50 CH4	0.00433366	51218	0%
2017 Annual	Santa Clara (SF)	LHD1	Dsl	68	40	RUNEX	55 CH4	0.004456229	29640	0%
2017 Annual	Santa Clara (SF)	LHD1	Dsl	68	40	RUNEX	60 CH4	0.004818062	0	0%
2017 Annual	Santa Clara (SF)	LHD1	Dsl	68	40	RUNEX	65 CH4	0.005466817	0	0%
2017 Annual	Santa Clara (SF)	LHD1	Dsl	68	40	RUNEX	70 CH4	0.005919141	0	0%
2017 Annual	Santa Clara (SF)	LHD1	Dsl	68	40	RUNEX	75 CH4	0.005919141	0	0%
2017 Annual	Santa Clara (SF)	LHD1	Dsl	68	40	RUNEX	80 CH4	0.005919141	0	0%



2017 Annual	Santa Clara (SF)	LHD1	Dsl	68	40	RUNEX	85 CH4	0.005919141	0	0%
2017 Annual	Santa Clara (SF)	LHD1	Dsl	68	40	RUNEX	90 CH4	0.005919141	0	0%
2017 Annual	Santa Clara (SF)	LHD1	Gas	68	40	RUNEX	5 CH4	0.056554264	18959	0%
2017 Annual	Santa Clara (SF)	LHD1	Gas	68	40	RUNEX	10 CH4	0.039179239	41466	0%
2017 Annual	Santa Clara (SF)	LHD1	Gas	68	40	RUNEX	15 CH4	0.028396608	105613	0%
2017 Annual	Santa Clara (SF)	LHD1	Gas	68	40	RUNEX	20 CH4	0.021524357	119386	0%
2017 Annual	Santa Clara (SF)	LHD1	Gas	68	40	RUNEX	25 CH4	0.017056559	93996	0%
2017 Annual	Santa Clara (SF)	LHD1	Gas	68	40	RUNEX	30 CH4	0.014125509	79671	0%
2017 Annual	Santa Clara (SF)	LHD1	Gas	68	40	RUNEX	35 CH4	0.012221858	30844	0%
2017 Annual	Santa Clara (SF)	LHD1	Gas	68	40	RUNEX	40 CH4	0.011045178	8276	0%
2017 Annual	Santa Clara (SF)	LHD1	Gas	68	40	RUNEX	45 CH4	0.010423353	9184	0%
2017 Annual	Santa Clara (SF)	LHD1	Gas	68	40	RUNEX	50 CH4	0.010269615	80636	0%
2017 Annual	Santa Clara (SF)	LHD1	Gas	68	40	RUNEX	55 CH4	0.010561885	20755	0%
2017 Annual	Santa Clara (SF)	LHD1	Gas	68	40	RUNEX	60 CH4	0.011337391	0	0%
2017 Annual	Santa Clara (SF)	LHD1	Gas	68	40	RUNEX	65 CH4	0.0127008	0	0%
2017 Annual	Santa Clara (SF)	LHD1	Gas	68	40	RUNEX	70 CH4	0.013659492	0	0%
2017 Annual	Santa Clara (SF)	LHD1	Gas	68	40	RUNEX	75 CH4	0.013659492	0	0%
2017 Annual	Santa Clara (SF)	LHD1	Gas	68	40	RUNEX	80 CH4	0.013659492	0	0%
2017 Annual	Santa Clara (SF)	LHD1	Gas	68	40	RUNEX	85 CH4	0.013659492	0	0%
2017 Annual	Santa Clara (SF)	LHD1	Gas	68	40	RUNEX	90 CH4	0.013659492	0	0%
2017 Annual	Santa Clara (SF)	LHD2	Dsl	68	40	RUNEX	5 CH4	0.034880516	2795	0%
2017 Annual	Santa Clara (SF)	LHD2	Dsl	68	40	RUNEX	10 CH4	0.025290005	7155	0%
2017 Annual	Santa Clara (SF)	LHD2	Dsl	68	40	RUNEX	15 CH4	0.014966829	18014	0%
2017 Annual	Santa Clara (SF)	LHD2	Dsl	68	40	RUNEX	20 CH4	0.008784832	19243	0%
2017 Annual	Santa Clara (SF)	LHD2	Dsl	68	40	RUNEX	25 CH4	0.006468415	20260	0%
2017 Annual	Santa Clara (SF)	LHD2	Dsl	68	40	RUNEX	30 CH4	0.005269425	16224	0%
2017 Annual	Santa Clara (SF)	LHD2	Dsl	68	40	RUNEX	35 CH4	0.004505939	8872	0%
2017 Annual	Santa Clara (SF)	LHD2	Dsl	68	40	RUNEX	40 CH4	0.004030503	4626	0%
2017 Annual	Santa Clara (SF)	LHD2	Dsl	68	40	RUNEX	45 CH4	0.003766163	4598	0%
2017 Annual	Santa Clara (SF)	LHD2	Dsl	68	40	RUNEX	50 CH4	0.003675818	20107	0%
2017 Annual	Santa Clara (SF)	LHD2	Dsl	68	40	RUNEX	55 CH4	0.00374983	11636	0%
2017 Annual	Santa Clara (SF)	LHD2	Dsl	68	40	RUNEX	60 CH4	0.004029895	0	0%
2017 Annual	Santa Clara (SF)	LHD2	Dsl	68	40	RUNEX	65 CH4	0.004550306	0	0%
2017 Annual	Santa Clara (SF)	LHD2	Dsl	68	40	RUNEX	70 CH4	0.004913147	0	0%
2017 Annual	Santa Clara (SF)	LHD2	Dsl	68	40	RUNEX	75 CH4	0.004913147	0	0%
2017 Annual	Santa Clara (SF)	LHD2	Dsl	68	40	RUNEX	80 CH4	0.004913147	0	0%
2017 Annual	Santa Clara (SF)	LHD2	Dsl	68	40	RUNEX	85 CH4	0.004913147	0	0%
2017 Annual	Santa Clara (SF)	LHD2	Dsl	68	40	RUNEX	90 CH4	0.004913147	0	0%
2017 Annual	Santa Clara (SF)	LHD2	Gas	68	40	RUNEX	5 CH4	0.053049441	2321	0%
2017 Annual	Santa Clara (SF)	LHD2	Gas	68	40	RUNEX	10 CH4	0.036175049	5076	0%
2017 Annual	Santa Clara (SF)	LHD2	Gas	68	40	RUNEX	15 CH4	0.02582806	12929	0%
2017 Annual	Santa Clara (SF)	LHD2	Gas	68	40	RUNEX	20 CH4	0.019303078	14615	0%
2017 Annual	Santa Clara (SF)	LHD2	Gas	68	40	RUNEX	25 CH4	0.015097738	11507	0%
2017 Annual	Santa Clara (SF)	LHD2	Gas	68	40	RUNEX	30 CH4	0.01235515	9753	0%
2017 Annual	Santa Clara (SF)	LHD2	Gas	68	40	RUNEX	35 CH4	0.010576518	3776	0%
2017 Annual	Santa Clara (SF)	LHD2	Gas	68	40	RUNEX	40 CH4	0.009469101	1013	0%
2017 Annual	Santa Clara (SF)	LHD2	Gas	68	40	RUNEX	45 CH4	0.008864766	1124	0%
2017 Annual	Santa Clara (SF)	LHD2	Gas	68	40	RUNEX	50 CH4	0.00867661	9871	0%
2017 Annual	Santa Clara (SF)	LHD2	Gas	68	40	RUNEX	55 CH4	0.00887768	2541	0%
2017 Annual	Santa Clara (SF)	LHD2	Gas	68	40	RUNEX	60 CH4	0.009494441	0	0%
2017 Annual	Santa Clara (SF)	LHD2	Gas	68	40	RUNEX	65 CH4	0.010612754	0	0%
2017 Annual	Santa Clara (SF)	LHD2	Gas	68	40	RUNEX	70 CH4	0.01140762	0	0%
2017 Annual	Santa Clara (SF)	LHD2	Gas	68	40	RUNEX	75 CH4	0.01140762	0	0%
2017 Annual	Santa Clara (SF)	LHD2	Gas	68	40	RUNEX	80 CH4	0.01140762	0	0%
2017 Annual	Santa Clara (SF)	LHD2	Gas	68	40	RUNEX	85 CH4	0.01140762	0	0%
2017 Annual	Santa Clara (SF)	LHD2	Gas	68	40	RUNEX	90 CH4	0.01140762	0	0%
2017 Annual	Santa Clara (SF)	MCY	Gas	68	40	RUNEX	5 CH4	1.494133527	321	0%
2017 Annual	Santa Clara (SF)	MCY	Gas	68	40	RUNEX	10 CH4	1.038722194	222	0%
2017 Annual	Santa Clara (SF)	MCY	Gas	68	40	RUNEX	15 CH4	0.755465343	945	0%
2017 Annual	Santa Clara (SF)	MCY	Gas	68	40	RUNEX	20 CH4	0.574564746	3460	0%
2017 Annual	Santa Clara (SF)	MCY	Gas	68	40	RUNEX	25 CH4	0.456763113	8351	0%
2017 Annual	Santa Clara (SF)	MCY	Gas	68	40	RUNEX	30 CH4	0.379403808	67366	0%
2017 Annual	Santa Clara (SF)	MCY	Gas	68	40	RUNEX	35 CH4	0.329169879	14674	0%
2017 Annual	Santa Clara (SF)	MCY	Gas	68	40	RUNEX	40 CH4	0.298202847	15103	0%
2017 Annual	Santa Clara (SF)	MCY	Gas	68	40	RUNEX	45 CH4	0.282007168	28786	0%
2017 Annual	Santa Clara (SF)	MCY	Gas	68	40	RUNEX	50 CH4	0.278334564	9963	0%
2017 Annual	Santa Clara (SF)	MCY	Gas	68	40	RUNEX	55 CH4	0.286650722	19194	0%
2017 Annual	Santa Clara (SF)	MCY	Gas	68	40	RUNEX	60 CH4	0.308003457	45457	0%
2017 Annual	Santa Clara (SF)	MCY	Gas	68	40	RUNEX	65 CH4	0.3452491	19038	0%
2017 Annual	Santa Clara (SF)	MCY	Gas	68	40	RUNEX	70 CH4	0.371364137	0	0%
2017 Annual	Santa Clara (SF)	MCY	Gas	68	40	RUNEX	75 CH4	0.371364137	0	0%
2017 Annual	Santa Clara (SF)	MCY	Gas	68	40	RUNEX	80 CH4	0.371364137	0	0%

2017 Annual	Santa Clara (SF)	MCY	Gas	68	40	RUNEX	85 CH4	0.371364137	0	0%
2017 Annual	Santa Clara (SF)	MCY	Gas	68	40	RUNEX	90 CH4	0.371364137	0	0%
2017 Annual	Santa Clara (SF)	MDV	Dsl	68	40	RUNEX	5 CH4	0.009572725	126	0%
2017 Annual	Santa Clara (SF)	MDV	Dsl	68	40	RUNEX	10 CH4	0.007122635	87	0%
2017 Annual	Santa Clara (SF)	MDV	Dsl	68	40	RUNEX	15 CH4	0.003616335	372	0%
2017 Annual	Santa Clara (SF)	MDV	Dsl	68	40	RUNEX	20 CH4	0.001562843	1362	0%
2017 Annual	Santa Clara (SF)	MDV	Dsl	68	40	RUNEX	25 CH4	0.00100133	3288	0%
2017 Annual	Santa Clara (SF)	MDV	Dsl	68	40	RUNEX	30 CH4	0.000776648	26526	0%
2017 Annual	Santa Clara (SF)	MDV	Dsl	68	40	RUNEX	35 CH4	0.000634256	5778	0%
2017 Annual	Santa Clara (SF)	MDV	Dsl	68	40	RUNEX	40 CH4	0.000539553	5947	0%
2017 Annual	Santa Clara (SF)	MDV	Dsl	68	40	RUNEX	45 CH4	0.000475499	11335	0%
2017 Annual	Santa Clara (SF)	MDV	Dsl	68	40	RUNEX	50 CH4	0.000433164	3923	0%
2017 Annual	Santa Clara (SF)	MDV	Dsl	68	40	RUNEX	55 CH4	0.000407991	7558	0%
2017 Annual	Santa Clara (SF)	MDV	Dsl	68	40	RUNEX	60 CH4	0.000410617	17899	0%
2017 Annual	Santa Clara (SF)	MDV	Dsl	68	40	RUNEX	65 CH4	0.000438146	7496	0%
2017 Annual	Santa Clara (SF)	MDV	Dsl	68	40	RUNEX	70 CH4	0.00045734	0	0%
2017 Annual	Santa Clara (SF)	MDV	Dsl	68	40	RUNEX	75 CH4	0.00045734	0	0%
2017 Annual	Santa Clara (SF)	MDV	Dsl	68	40	RUNEX	80 CH4	0.00045734	0	0%
2017 Annual	Santa Clara (SF)	MDV	Dsl	68	40	RUNEX	85 CH4	0.00045734	0	0%
2017 Annual	Santa Clara (SF)	MDV	Dsl	68	40	RUNEX	90 CH4	0.00045734	0	0%
2017 Annual	Santa Clara (SF)	MDV	Gas	68	40	RUNEX	5 CH4	0.053590076	6625	0%
2017 Annual	Santa Clara (SF)	MDV	Gas	68	40	RUNEX	10 CH4	0.036624877	4589	0%
2017 Annual	Santa Clara (SF)	MDV	Gas	68	40	RUNEX	15 CH4	0.026187658	19529	0%
2017 Annual	Santa Clara (SF)	MDV	Gas	68	40	RUNEX	20 CH4	0.019578958	71476	0%
2017 Annual	Santa Clara (SF)	MDV	Gas	68	40	RUNEX	25 CH4	0.015297427	172516	0%
2017 Annual	Santa Clara (SF)	MDV	Gas	68	40	RUNEX	30 CH4	0.012484865	1391699	3%
2017 Annual	Santa Clara (SF)	MDV	Gas	68	40	RUNEX	35 CH4	0.010639798	303154	1%
2017 Annual	Santa Clara (SF)	MDV	Gas	68	40	RUNEX	40 CH4	0.009466001	312005	1%
2017 Annual	Santa Clara (SF)	MDV	Gas	68	40	RUNEX	45 CH4	0.008791034	594669	1%
2017 Annual	Santa Clara (SF)	MDV	Gas	68	40	RUNEX	50 CH4	0.008522523	205821	0%
2017 Annual	Santa Clara (SF)	MDV	Gas	68	40	RUNEX	55 CH4	0.008626205	396522	1%
2017 Annual	Santa Clara (SF)	MDV	Gas	68	40	RUNEX	60 CH4	0.009118246	939078	2%
2017 Annual	Santa Clara (SF)	MDV	Gas	68	40	RUNEX	65 CH4	0.010069333	393295	1%
2017 Annual	Santa Clara (SF)	MDV	Gas	68	40	RUNEX	70 CH4	0.01075787	0	0%
2017 Annual	Santa Clara (SF)	MDV	Gas	68	40	RUNEX	75 CH4	0.01075787	0	0%
2017 Annual	Santa Clara (SF)	MDV	Gas	68	40	RUNEX	80 CH4	0.01075787	0	0%
2017 Annual	Santa Clara (SF)	MDV	Gas	68	40	RUNEX	85 CH4	0.01075787	0	0%
2017 Annual	Santa Clara (SF)	MDV	Gas	68	40	RUNEX	90 CH4	0.01075787	0	0%
2017 Annual	Santa Clara (SF)	MH	Dsl	68	40	RUNEX	5 CH4	0.049212121	66	0%
2017 Annual	Santa Clara (SF)	MH	Dsl	68	40	RUNEX	10 CH4	0.037214861	341	0%
2017 Annual	Santa Clara (SF)	MH	Dsl	68	40	RUNEX	15 CH4	0.018974247	415	0%
2017 Annual	Santa Clara (SF)	MH	Dsl	68	40	RUNEX	20 CH4	0.008405506	461	0%
2017 Annual	Santa Clara (SF)	MH	Dsl	68	40	RUNEX	25 CH4	0.00585523	471	0%
2017 Annual	Santa Clara (SF)	MH	Dsl	68	40	RUNEX	30 CH4	0.004740171	571	0%
2017 Annual	Santa Clara (SF)	MH	Dsl	68	40	RUNEX	35 CH4	0.003907054	747	0%
2017 Annual	Santa Clara (SF)	MH	Dsl	68	40	RUNEX	40 CH4	0.003308592	954	0%
2017 Annual	Santa Clara (SF)	MH	Dsl	68	40	RUNEX	45 CH4	0.002921906	745	0%
2017 Annual	Santa Clara (SF)	MH	Dsl	68	40	RUNEX	50 CH4	0.002734699	879	0%
2017 Annual	Santa Clara (SF)	MH	Dsl	68	40	RUNEX	55 CH4	0.002739831	1222	0%
2017 Annual	Santa Clara (SF)	MH	Dsl	68	40	RUNEX	60 CH4	0.002952178	1528	0%
2017 Annual	Santa Clara (SF)	MH	Dsl	68	40	RUNEX	65 CH4	0.003363431	215	0%
2017 Annual	Santa Clara (SF)	MH	Dsl	68	40	RUNEX	70 CH4	0.003952084	0	0%
2017 Annual	Santa Clara (SF)	MH	Dsl	68	40	RUNEX	75 CH4	0.003952084	0	0%
2017 Annual	Santa Clara (SF)	MH	Dsl	68	40	RUNEX	80 CH4	0.003952084	0	0%
2017 Annual	Santa Clara (SF)	MH	Dsl	68	40	RUNEX	85 CH4	0.003952084	0	0%
2017 Annual	Santa Clara (SF)	MH	Dsl	68	40	RUNEX	90 CH4	0.003952084	0	0%
2017 Annual	Santa Clara (SF)	MH	Gas	68	40	RUNEX	5 CH4	0.129721887	230	0%
2017 Annual	Santa Clara (SF)	MH	Gas	68	40	RUNEX	10 CH4	0.090259148	1212	0%
2017 Annual	Santa Clara (SF)	MH	Gas	68	40	RUNEX	15 CH4	0.06568439	1367	0%
2017 Annual	Santa Clara (SF)	MH	Gas	68	40	RUNEX	20 CH4	0.049974508	1494	0%
2017 Annual	Santa Clara (SF)	MH	Gas	68	40	RUNEX	25 CH4	0.039736252	1687	0%
2017 Annual	Santa Clara (SF)	MH	Gas	68	40	RUNEX	30 CH4	0.033008499	1834	0%
2017 Annual	Santa Clara (SF)	MH	Gas	68	40	RUNEX	35 CH4	0.028637193	2632	0%
2017 Annual	Santa Clara (SF)	MH	Gas	68	40	RUNEX	40 CH4	0.025940659	3475	0%
2017 Annual	Santa Clara (SF)	MH	Gas	68	40	RUNEX	45 CH4	0.024528638	3035	0%
2017 Annual	Santa Clara (SF)	MH	Gas	68	40	RUNEX	50 CH4	0.024205855	2956	0%
2017 Annual	Santa Clara (SF)	MH	Gas	68	40	RUNEX	55 CH4	0.024925902	3326	0%
2017 Annual	Santa Clara (SF)	MH	Gas	68	40	RUNEX	60 CH4	0.026779917	3513	0%
2017 Annual	Santa Clara (SF)	MH	Gas	68	40	RUNEX	65 CH4	0.030016354	458	0%
2017 Annual	Santa Clara (SF)	MH	Gas	68	40	RUNEX	70 CH4	0.032286293	0	0%
2017 Annual	Santa Clara (SF)	MH	Gas	68	40	RUNEX	75 CH4	0.032286293	0	0%
2017 Annual	Santa Clara (SF)	MH	Gas	68	40	RUNEX	80 CH4	0.032286293	0	0%

2017 Annual	Santa Clara (SF)	MH	Gas	68	40	RUNEX	85 CH4	0.032286293	0	0%
2017 Annual	Santa Clara (SF)	MH	Gas	68	40	RUNEX	90 CH4	0.032286293	0	0%
2017 Annual	Santa Clara (SF)	Motor Coach	Dsl	68	40	RUNEX	5 CH4	0.198814981	93	0%
2017 Annual	Santa Clara (SF)	Motor Coach	Dsl	68	40	RUNEX	10 CH4	0.150861363	211	0%
2017 Annual	Santa Clara (SF)	Motor Coach	Dsl	68	40	RUNEX	15 CH4	0.079329513	197	0%
2017 Annual	Santa Clara (SF)	Motor Coach	Dsl	68	40	RUNEX	20 CH4	0.038380939	288	0%
2017 Annual	Santa Clara (SF)	Motor Coach	Dsl	68	40	RUNEX	25 CH4	0.027526701	253	0%
2017 Annual	Santa Clara (SF)	Motor Coach	Dsl	68	40	RUNEX	30 CH4	0.02171994	140	0%
2017 Annual	Santa Clara (SF)	Motor Coach	Dsl	68	40	RUNEX	35 CH4	0.017284963	187	0%
2017 Annual	Santa Clara (SF)	Motor Coach	Dsl	68	40	RUNEX	40 CH4	0.014139069	173	0%
2017 Annual	Santa Clara (SF)	Motor Coach	Dsl	68	40	RUNEX	45 CH4	0.012204993	231	0%
2017 Annual	Santa Clara (SF)	Motor Coach	Dsl	68	40	RUNEX	50 CH4	0.011405289	340	0%
2017 Annual	Santa Clara (SF)	Motor Coach	Dsl	68	40	RUNEX	55 CH4	0.011658195	815	0%
2017 Annual	Santa Clara (SF)	Motor Coach	Dsl	68	40	RUNEX	60 CH4	0.012295783	2975	0%
2017 Annual	Santa Clara (SF)	Motor Coach	Dsl	68	40	RUNEX	65 CH4	0.012413118	5450	0%
2017 Annual	Santa Clara (SF)	Motor Coach	Dsl	68	40	RUNEX	70 CH4	0.012474701	67	0%
2017 Annual	Santa Clara (SF)	Motor Coach	Dsl	68	40	RUNEX	75 CH4	0.012551463	0	0%
2017 Annual	Santa Clara (SF)	Motor Coach	Dsl	68	40	RUNEX	80 CH4	0.012643402	0	0%
2017 Annual	Santa Clara (SF)	Motor Coach	Dsl	68	40	RUNEX	85 CH4	0.01275052	0	0%
2017 Annual	Santa Clara (SF)	Motor Coach	Dsl	68	40	RUNEX	90 CH4	0.012872815	0	0%
2017 Annual	Santa Clara (SF)	OBUS	Gas	68	40	RUNEX	5 CH4	0.104247657	237	0%
2017 Annual	Santa Clara (SF)	OBUS	Gas	68	40	RUNEX	10 CH4	0.070071659	1246	0%
2017 Annual	Santa Clara (SF)	OBUS	Gas	68	40	RUNEX	15 CH4	0.049328569	1405	0%
2017 Annual	Santa Clara (SF)	OBUS	Gas	68	40	RUNEX	20 CH4	0.036367644	1536	0%
2017 Annual	Santa Clara (SF)	OBUS	Gas	68	40	RUNEX	25 CH4	0.028078278	1734	0%
2017 Annual	Santa Clara (SF)	OBUS	Gas	68	40	RUNEX	30 CH4	0.022700829	1886	0%
2017 Annual	Santa Clara (SF)	OBUS	Gas	68	40	RUNEX	35 CH4	0.019218059	2706	0%
2017 Annual	Santa Clara (SF)	OBUS	Gas	68	40	RUNEX	40 CH4	0.017035415	3572	0%
2017 Annual	Santa Clara (SF)	OBUS	Gas	68	40	RUNEX	45 CH4	0.015810719	3120	0%
2017 Annual	Santa Clara (SF)	OBUS	Gas	68	40	RUNEX	50 CH4	0.015363472	3039	0%
2017 Annual	Santa Clara (SF)	OBUS	Gas	68	40	RUNEX	55 CH4	0.015629702	3420	0%
2017 Annual	Santa Clara (SF)	OBUS	Gas	68	40	RUNEX	60 CH4	0.016646502	3612	0%
2017 Annual	Santa Clara (SF)	OBUS	Gas	68	40	RUNEX	65 CH4	0.018560869	471	0%
2017 Annual	Santa Clara (SF)	OBUS	Gas	68	40	RUNEX	70 CH4	0.019938725	0	0%
2017 Annual	Santa Clara (SF)	OBUS	Gas	68	40	RUNEX	75 CH4	0.019938725	0	0%
2017 Annual	Santa Clara (SF)	OBUS	Gas	68	40	RUNEX	80 CH4	0.019938725	0	0%
2017 Annual	Santa Clara (SF)	OBUS	Gas	68	40	RUNEX	85 CH4	0.019938725	0	0%
2017 Annual	Santa Clara (SF)	OBUS	Gas	68	40	RUNEX	90 CH4	0.019938725	0	0%
2017 Annual	Santa Clara (SF)	SBUS	Dsl	68	40	RUNEX	5 CH4	0.035679263	427	0%
2017 Annual	Santa Clara (SF)	SBUS	Dsl	68	40	RUNEX	10 CH4	0.027249062	1052	0%
2017 Annual	Santa Clara (SF)	SBUS	Dsl	68	40	RUNEX	15 CH4	0.014781361	1351	0%
2017 Annual	Santa Clara (SF)	SBUS	Dsl	68	40	RUNEX	20 CH4	0.007439448	1783	0%
2017 Annual	Santa Clara (SF)	SBUS	Dsl	68	40	RUNEX	25 CH4	0.005364989	2293	0%
2017 Annual	Santa Clara (SF)	SBUS	Dsl	68	40	RUNEX	30 CH4	0.004282889	2675	0%
2017 Annual	Santa Clara (SF)	SBUS	Dsl	68	40	RUNEX	35 CH4	0.003454632	2280	0%
2017 Annual	Santa Clara (SF)	SBUS	Dsl	68	40	RUNEX	40 CH4	0.002859522	1671	0%
2017 Annual	Santa Clara (SF)	SBUS	Dsl	68	40	RUNEX	45 CH4	0.002481661	1405	0%
2017 Annual	Santa Clara (SF)	SBUS	Dsl	68	40	RUNEX	50 CH4	0.002308527	2399	0%
2017 Annual	Santa Clara (SF)	SBUS	Dsl	68	40	RUNEX	55 CH4	0.002329918	6077	0%
2017 Annual	Santa Clara (SF)	SBUS	Dsl	68	40	RUNEX	60 CH4	0.002423814	5996	0%
2017 Annual	Santa Clara (SF)	SBUS	Dsl	68	40	RUNEX	65 CH4	0.002447862	2252	0%
2017 Annual	Santa Clara (SF)	SBUS	Dsl	68	40	RUNEX	70 CH4	0.002461598	197	0%
2017 Annual	Santa Clara (SF)	SBUS	Dsl	68	40	RUNEX	75 CH4	0.002478718	11	0%
2017 Annual	Santa Clara (SF)	SBUS	Dsl	68	40	RUNEX	80 CH4	0.002499225	0	0%
2017 Annual	Santa Clara (SF)	SBUS	Dsl	68	40	RUNEX	85 CH4	0.002523116	0	0%
2017 Annual	Santa Clara (SF)	SBUS	Dsl	68	40	RUNEX	90 CH4	0.002550393	0	0%
2017 Annual	Santa Clara (SF)	SBUS	Gas	68	40	RUNEX	5 CH4	0.081972609	90	0%
2017 Annual	Santa Clara (SF)	SBUS	Gas	68	40	RUNEX	10 CH4	0.054921234	316	0%
2017 Annual	Santa Clara (SF)	SBUS	Gas	68	40	RUNEX	15 CH4	0.038538587	633	0%
2017 Annual	Santa Clara (SF)	SBUS	Gas	68	40	RUNEX	20 CH4	0.028322801	859	0%
2017 Annual	Santa Clara (SF)	SBUS	Gas	68	40	RUNEX	25 CH4	0.021800206	1355	0%
2017 Annual	Santa Clara (SF)	SBUS	Gas	68	40	RUNEX	30 CH4	0.017573884	1626	0%
2017 Annual	Santa Clara (SF)	SBUS	Gas	68	40	RUNEX	35 CH4	0.014837468	1669	0%
2017 Annual	Santa Clara (SF)	SBUS	Gas	68	40	RUNEX	40 CH4	0.01312007	1127	0%
2017 Annual	Santa Clara (SF)	SBUS	Gas	68	40	RUNEX	45 CH4	0.012150561	541	0%
2017 Annual	Santa Clara (SF)	SBUS	Gas	68	40	RUNEX	50 CH4	0.011785309	271	0%
2017 Annual	Santa Clara (SF)	SBUS	Gas	68	40	RUNEX	55 CH4	0.011972083	403	0%
2017 Annual	Santa Clara (SF)	SBUS	Gas	68	40	RUNEX	60 CH4	0.01273744	224	0%
2017 Annual	Santa Clara (SF)	SBUS	Gas	68	40	RUNEX	65 CH4	0.014193163	0	0%
2017 Annual	Santa Clara (SF)	SBUS	Gas	68	40	RUNEX	70 CH4	0.015244364	0	0%
2017 Annual	Santa Clara (SF)	SBUS	Gas	68	40	RUNEX	75 CH4	0.015244364	0	0%
2017 Annual	Santa Clara (SF)	SBUS	Gas	68	40	RUNEX	80 CH4	0.015244364	0	0%

2017 Annual	Santa Clara (SF)	SBUS	Gas	68	40	RUNEX	85 CH4	0.015244364	0	0%
2017 Annual	Santa Clara (SF)	SBUS	Gas	68	40	RUNEX	90 CH4	0.015244364	0	0%
2017 Annual	Santa Clara (SF)	T6 Ag	Dsl	68	40	RUNEX	5 CH4	0.354932137	0	0%
2017 Annual	Santa Clara (SF)	T6 Ag	Dsl	68	40	RUNEX	10 CH4	0.270981647	0	0%
2017 Annual	Santa Clara (SF)	T6 Ag	Dsl	68	40	RUNEX	15 CH4	0.13817596	0	0%
2017 Annual	Santa Clara (SF)	T6 Ag	Dsl	68	40	RUNEX	20 CH4	0.060814613	0	0%
2017 Annual	Santa Clara (SF)	T6 Ag	Dsl	68	40	RUNEX	25 CH4	0.041574696	0	0%
2017 Annual	Santa Clara (SF)	T6 Ag	Dsl	68	40	RUNEX	30 CH4	0.031656342	0	0%
2017 Annual	Santa Clara (SF)	T6 Ag	Dsl	68	40	RUNEX	35 CH4	0.024195559	1	0%
2017 Annual	Santa Clara (SF)	T6 Ag	Dsl	68	40	RUNEX	40 CH4	0.019183241	1	0%
2017 Annual	Santa Clara (SF)	T6 Ag	Dsl	68	40	RUNEX	45 CH4	0.016519972	1	0%
2017 Annual	Santa Clara (SF)	T6 Ag	Dsl	68	40	RUNEX	50 CH4	0.016016035	1	0%
2017 Annual	Santa Clara (SF)	T6 Ag	Dsl	68	40	RUNEX	55 CH4	0.017391406	3	0%
2017 Annual	Santa Clara (SF)	T6 Ag	Dsl	68	40	RUNEX	60 CH4	0.019244416	12	0%
2017 Annual	Santa Clara (SF)	T6 Ag	Dsl	68	40	RUNEX	65 CH4	0.019262894	9	0%
2017 Annual	Santa Clara (SF)	T6 Ag	Dsl	68	40	RUNEX	70 CH4	0.019262926	0	0%
2017 Annual	Santa Clara (SF)	T6 Ag	Dsl	68	40	RUNEX	75 CH4	0.019262966	0	0%
2017 Annual	Santa Clara (SF)	T6 Ag	Dsl	68	40	RUNEX	80 CH4	0.019263014	0	0%
2017 Annual	Santa Clara (SF)	T6 Ag	Dsl	68	40	RUNEX	85 CH4	0.019263069	0	0%
2017 Annual	Santa Clara (SF)	T6 Ag	Dsl	68	40	RUNEX	90 CH4	0.019263132	0	0%
2017 Annual	Santa Clara (SF)	T6 CAIRP Heavy	Dsl	68	40	RUNEX	5 CH4	0.041392518	52	0%
2017 Annual	Santa Clara (SF)	T6 CAIRP Heavy	Dsl	68	40	RUNEX	10 CH4	0.031228867	119	0%
2017 Annual	Santa Clara (SF)	T6 CAIRP Heavy	Dsl	68	40	RUNEX	15 CH4	0.016651864	116	0%
2017 Annual	Santa Clara (SF)	T6 CAIRP Heavy	Dsl	68	40	RUNEX	20 CH4	0.008466099	150	0%
2017 Annual	Santa Clara (SF)	T6 CAIRP Heavy	Dsl	68	40	RUNEX	25 CH4	0.00630972	129	0%
2017 Annual	Santa Clara (SF)	T6 CAIRP Heavy	Dsl	68	40	RUNEX	30 CH4	0.005165359	82	0%
2017 Annual	Santa Clara (SF)	T6 CAIRP Heavy	Dsl	68	40	RUNEX	35 CH4	0.004264925	118	0%
2017 Annual	Santa Clara (SF)	T6 CAIRP Heavy	Dsl	68	40	RUNEX	40 CH4	0.003587809	115	0%
2017 Annual	Santa Clara (SF)	T6 CAIRP Heavy	Dsl	68	40	RUNEX	45 CH4	0.003118346	147	0%
2017 Annual	Santa Clara (SF)	T6 CAIRP Heavy	Dsl	68	40	RUNEX	50 CH4	0.002844381	197	0%
2017 Annual	Santa Clara (SF)	T6 CAIRP Heavy	Dsl	68	40	RUNEX	55 CH4	0.002756228	463	0%
2017 Annual	Santa Clara (SF)	T6 CAIRP Heavy	Dsl	68	40	RUNEX	60 CH4	0.002803451	1610	0%
2017 Annual	Santa Clara (SF)	T6 CAIRP Heavy	Dsl	68	40	RUNEX	65 CH4	0.002859681	3105	0%
2017 Annual	Santa Clara (SF)	T6 CAIRP Heavy	Dsl	68	40	RUNEX	70 CH4	0.002899716	37	0%
2017 Annual	Santa Clara (SF)	T6 CAIRP Heavy	Dsl	68	40	RUNEX	75 CH4	0.002949619	0	0%
2017 Annual	Santa Clara (SF)	T6 CAIRP Heavy	Dsl	68	40	RUNEX	80 CH4	0.003009388	0	0%
2017 Annual	Santa Clara (SF)	T6 CAIRP Heavy	Dsl	68	40	RUNEX	85 CH4	0.003079024	0	0%
2017 Annual	Santa Clara (SF)	T6 CAIRP Heavy	Dsl	68	40	RUNEX	90 CH4	0.003158528	0	0%
2017 Annual	Santa Clara (SF)	T6 CAIRP Small	Dsl	68	40	RUNEX	5 CH4	0.075081564	7	0%
2017 Annual	Santa Clara (SF)	T6 CAIRP Small	Dsl	68	40	RUNEX	10 CH4	0.056571961	16	0%
2017 Annual	Santa Clara (SF)	T6 CAIRP Small	Dsl	68	40	RUNEX	15 CH4	0.029618298	16	0%
2017 Annual	Santa Clara (SF)	T6 CAIRP Small	Dsl	68	40	RUNEX	20 CH4	0.014690485	21	0%
2017 Annual	Santa Clara (SF)	T6 CAIRP Small	Dsl	68	40	RUNEX	25 CH4	0.011014805	18	0%
2017 Annual	Santa Clara (SF)	T6 CAIRP Small	Dsl	68	40	RUNEX	30 CH4	0.009083885	11	0%
2017 Annual	Santa Clara (SF)	T6 CAIRP Small	Dsl	68	40	RUNEX	35 CH4	0.007547819	16	0%
2017 Annual	Santa Clara (SF)	T6 CAIRP Small	Dsl	68	40	RUNEX	40 CH4	0.006377874	16	0%
2017 Annual	Santa Clara (SF)	T6 CAIRP Small	Dsl	68	40	RUNEX	45 CH4	0.0055523	20	0%
2017 Annual	Santa Clara (SF)	T6 CAIRP Small	Dsl	68	40	RUNEX	50 CH4	0.005054338	27	0%
2017 Annual	Santa Clara (SF)	T6 CAIRP Small	Dsl	68	40	RUNEX	55 CH4	0.004870761	64	0%
2017 Annual	Santa Clara (SF)	T6 CAIRP Small	Dsl	68	40	RUNEX	60 CH4	0.004917553	222	0%
2017 Annual	Santa Clara (SF)	T6 CAIRP Small	Dsl	68	40	RUNEX	65 CH4	0.004972106	428	0%
2017 Annual	Santa Clara (SF)	T6 CAIRP Small	Dsl	68	40	RUNEX	70 CH4	0.005005352	5	0%
2017 Annual	Santa Clara (SF)	T6 CAIRP Small	Dsl	68	40	RUNEX	75 CH4	0.005046791	0	0%
2017 Annual	Santa Clara (SF)	T6 CAIRP Small	Dsl	68	40	RUNEX	80 CH4	0.005096424	0	0%
2017 Annual	Santa Clara (SF)	T6 CAIRP Small	Dsl	68	40	RUNEX	85 CH4	0.005154251	0	0%
2017 Annual	Santa Clara (SF)	T6 CAIRP Small	Dsl	68	40	RUNEX	90 CH4	0.005220271	0	0%
2017 Annual	Santa Clara (SF)	T6 Instate Construction Heavy	Dsl	68	40	RUNEX	5 CH4	0.15384215	2216	0%
2017 Annual	Santa Clara (SF)	T6 Instate Construction Heavy	Dsl	68	40	RUNEX	10 CH4	0.117612607	1637	0%
2017 Annual	Santa Clara (SF)	T6 Instate Construction Heavy	Dsl	68	40	RUNEX	15 CH4	0.062699732	429	0%
2017 Annual	Santa Clara (SF)	T6 Instate Construction Heavy	Dsl	68	40	RUNEX	20 CH4	0.030106746	373	0%
2017 Annual	Santa Clara (SF)	T6 Instate Construction Heavy	Dsl	68	40	RUNEX	25 CH4	0.021696647	495	0%
2017 Annual	Santa Clara (SF)	T6 Instate Construction Heavy	Dsl	68	40	RUNEX	30 CH4	0.017696648	570	0%
2017 Annual	Santa Clara (SF)	T6 Instate Construction Heavy	Dsl	68	40	RUNEX	35 CH4	0.014585908	719	0%
2017 Annual	Santa Clara (SF)	T6 Instate Construction Heavy	Dsl	68	40	RUNEX	40 CH4	0.01233458	857	0%
2017 Annual	Santa Clara (SF)	T6 Instate Construction Heavy	Dsl	68	40	RUNEX	45 CH4	0.010917765	1032	0%
2017 Annual	Santa Clara (SF)	T6 Instate Construction Heavy	Dsl	68	40	RUNEX	50 CH4	0.010314269	1156	0%
2017 Annual	Santa Clara (SF)	T6 Instate Construction Heavy	Dsl	68	40	RUNEX	55 CH4	0.010504901	1407	0%
2017 Annual	Santa Clara (SF)	T6 Instate Construction Heavy	Dsl	68	40	RUNEX	60 CH4	0.010923279	4468	0%
2017 Annual	Santa Clara (SF)	T6 Instate Construction Heavy	Dsl	68	40	RUNEX	65 CH4	0.010967202	2623	0%
2017 Annual	Santa Clara (SF)	T6 Instate Construction Heavy	Dsl	68	40	RUNEX	70 CH4	0.010989492	378	0%
2017 Annual	Santa Clara (SF)	T6 Instate Construction Heavy	Dsl	68	40	RUNEX	75 CH4	0.011017274	229	0%
2017 Annual	Santa Clara (SF)	T6 Instate Construction Heavy	Dsl	68	40	RUNEX	80 CH4	0.011050551	0	0%

2017 Annual	Santa Clara (SF)	T6 Instate Construction Heavy	Dsl	68	40 RUNEX	85 CH4	0.011089321	0	0%
2017 Annual	Santa Clara (SF)	T6 Instate Construction Heavy	Dsl	68	40 RUNEX	90 CH4	0.011133584	0	0%
2017 Annual	Santa Clara (SF)	T6 Instate Construction Small	Dsl	68	40 RUNEX	5 CH4	0.138274659	5054	0%
2017 Annual	Santa Clara (SF)	T6 Instate Construction Small	Dsl	68	40 RUNEX	10 CH4	0.104308752	3734	0%
2017 Annual	Santa Clara (SF)	T6 Instate Construction Small	Dsl	68	40 RUNEX	15 CH4	0.053896979	978	0%
2017 Annual	Santa Clara (SF)	T6 Instate Construction Small	Dsl	68	40 RUNEX	20 CH4	0.025715595	850	0%
2017 Annual	Santa Clara (SF)	T6 Instate Construction Small	Dsl	68	40 RUNEX	25 CH4	0.018967127	1130	0%
2017 Annual	Santa Clara (SF)	T6 Instate Construction Small	Dsl	68	40 RUNEX	30 CH4	0.015511791	1300	0%
2017 Annual	Santa Clara (SF)	T6 Instate Construction Small	Dsl	68	40 RUNEX	35 CH4	0.012790638	1639	0%
2017 Annual	Santa Clara (SF)	T6 Instate Construction Small	Dsl	68	40 RUNEX	40 CH4	0.010772991	1955	0%
2017 Annual	Santa Clara (SF)	T6 Instate Construction Small	Dsl	68	40 RUNEX	45 CH4	0.00943406	2353	0%
2017 Annual	Santa Clara (SF)	T6 Instate Construction Small	Dsl	68	40 RUNEX	50 CH4	0.008752836	2636	0%
2017 Annual	Santa Clara (SF)	T6 Instate Construction Small	Dsl	68	40 RUNEX	55 CH4	0.008710537	3209	0%
2017 Annual	Santa Clara (SF)	T6 Instate Construction Small	Dsl	68	40 RUNEX	60 CH4	0.00895402	10193	0%
2017 Annual	Santa Clara (SF)	T6 Instate Construction Small	Dsl	68	40 RUNEX	65 CH4	0.008999785	5983	0%
2017 Annual	Santa Clara (SF)	T6 Instate Construction Small	Dsl	68	40 RUNEX	70 CH4	0.009022115	863	0%
2017 Annual	Santa Clara (SF)	T6 Instate Construction Small	Dsl	68	40 RUNEX	75 CH4	0.009049948	523	0%
2017 Annual	Santa Clara (SF)	T6 Instate Construction Small	Dsl	68	40 RUNEX	80 CH4	0.009083285	0	0%
2017 Annual	Santa Clara (SF)	T6 Instate Construction Small	Dsl	68	40 RUNEX	85 CH4	0.009122125	0	0%
2017 Annual	Santa Clara (SF)	T6 Instate Construction Small	Dsl	68	40 RUNEX	90 CH4	0.009166469	0	0%
2017 Annual	Santa Clara (SF)	T6 Instate Heavy	Dsl	68	40 RUNEX	5 CH4	0.146195536	2280	0%
2017 Annual	Santa Clara (SF)	T6 Instate Heavy	Dsl	68	40 RUNEX	10 CH4	0.112380861	5173	0%
2017 Annual	Santa Clara (SF)	T6 Instate Heavy	Dsl	68	40 RUNEX	15 CH4	0.060774413	6607	0%
2017 Annual	Santa Clara (SF)	T6 Instate Heavy	Dsl	68	40 RUNEX	20 CH4	0.029438325	8715	0%
2017 Annual	Santa Clara (SF)	T6 Instate Heavy	Dsl	68	40 RUNEX	25 CH4	0.021158326	12178	0%
2017 Annual	Santa Clara (SF)	T6 Instate Heavy	Dsl	68	40 RUNEX	30 CH4	0.017346161	15526	0%
2017 Annual	Santa Clara (SF)	T6 Instate Heavy	Dsl	68	40 RUNEX	35 CH4	0.014376403	12995	0%
2017 Annual	Santa Clara (SF)	T6 Instate Heavy	Dsl	68	40 RUNEX	40 CH4	0.012221205	7875	0%
2017 Annual	Santa Clara (SF)	T6 Instate Heavy	Dsl	68	40 RUNEX	45 CH4	0.010857305	5820	0%
2017 Annual	Santa Clara (SF)	T6 Instate Heavy	Dsl	68	40 RUNEX	50 CH4	0.010264115	12019	0%
2017 Annual	Santa Clara (SF)	T6 Instate Heavy	Dsl	68	40 RUNEX	55 CH4	0.010422315	30035	0%
2017 Annual	Santa Clara (SF)	T6 Instate Heavy	Dsl	68	40 RUNEX	60 CH4	0.010812925	20398	0%
2017 Annual	Santa Clara (SF)	T6 Instate Heavy	Dsl	68	40 RUNEX	65 CH4	0.01086315	7938	0%
2017 Annual	Santa Clara (SF)	T6 Instate Heavy	Dsl	68	40 RUNEX	70 CH4	0.010885216	677	0%
2017 Annual	Santa Clara (SF)	T6 Instate Heavy	Dsl	68	40 RUNEX	75 CH4	0.010912721	20	0%
2017 Annual	Santa Clara (SF)	T6 Instate Heavy	Dsl	68	40 RUNEX	80 CH4	0.010945663	0	0%
2017 Annual	Santa Clara (SF)	T6 Instate Heavy	Dsl	68	40 RUNEX	85 CH4	0.010984045	0	0%
2017 Annual	Santa Clara (SF)	T6 Instate Heavy	Dsl	68	40 RUNEX	90 CH4	0.011027864	0	0%
2017 Annual	Santa Clara (SF)	T6 Instate Small	Dsl	68	40 RUNEX	5 CH4	0.144559528	4619	0%
2017 Annual	Santa Clara (SF)	T6 Instate Small	Dsl	68	40 RUNEX	10 CH4	0.109054816	10478	0%
2017 Annual	Santa Clara (SF)	T6 Instate Small	Dsl	68	40 RUNEX	15 CH4	0.056244025	13384	0%
2017 Annual	Santa Clara (SF)	T6 Instate Small	Dsl	68	40 RUNEX	20 CH4	0.026602241	17654	0%
2017 Annual	Santa Clara (SF)	T6 Instate Small	Dsl	68	40 RUNEX	25 CH4	0.019461782	24669	0%
2017 Annual	Santa Clara (SF)	T6 Instate Small	Dsl	68	40 RUNEX	30 CH4	0.015806191	31450	0%
2017 Annual	Santa Clara (SF)	T6 Instate Small	Dsl	68	40 RUNEX	35 CH4	0.012949934	26322	0%
2017 Annual	Santa Clara (SF)	T6 Instate Small	Dsl	68	40 RUNEX	40 CH4	0.010864307	15952	0%
2017 Annual	Santa Clara (SF)	T6 Instate Small	Dsl	68	40 RUNEX	45 CH4	0.009525675	11788	0%
2017 Annual	Santa Clara (SF)	T6 Instate Small	Dsl	68	40 RUNEX	50 CH4	0.008913497	24347	0%
2017 Annual	Santa Clara (SF)	T6 Instate Small	Dsl	68	40 RUNEX	55 CH4	0.009008877	60840	0%
2017 Annual	Santa Clara (SF)	T6 Instate Small	Dsl	68	40 RUNEX	60 CH4	0.009349394	41319	0%
2017 Annual	Santa Clara (SF)	T6 Instate Small	Dsl	68	40 RUNEX	65 CH4	0.009397225	16080	0%
2017 Annual	Santa Clara (SF)	T6 Instate Small	Dsl	68	40 RUNEX	70 CH4	0.009419655	1372	0%
2017 Annual	Santa Clara (SF)	T6 Instate Small	Dsl	68	40 RUNEX	75 CH4	0.009447612	41	0%
2017 Annual	Santa Clara (SF)	T6 Instate Small	Dsl	68	40 RUNEX	80 CH4	0.009481097	0	0%
2017 Annual	Santa Clara (SF)	T6 Instate Small	Dsl	68	40 RUNEX	85 CH4	0.009520111	0	0%
2017 Annual	Santa Clara (SF)	T6 Instate Small	Dsl	68	40 RUNEX	90 CH4	0.009564651	0	0%
2017 Annual	Santa Clara (SF)	T6 OOS Heavy	Dsl	68	40 RUNEX	5 CH4	0.039383148	30	0%
2017 Annual	Santa Clara (SF)	T6 OOS Heavy	Dsl	68	40 RUNEX	10 CH4	0.029614982	68	0%
2017 Annual	Santa Clara (SF)	T6 OOS Heavy	Dsl	68	40 RUNEX	15 CH4	0.015703307	67	0%
2017 Annual	Santa Clara (SF)	T6 OOS Heavy	Dsl	68	40 RUNEX	20 CH4	0.008009022	86	0%
2017 Annual	Santa Clara (SF)	T6 OOS Heavy	Dsl	68	40 RUNEX	25 CH4	0.006002632	74	0%
2017 Annual	Santa Clara (SF)	T6 OOS Heavy	Dsl	68	40 RUNEX	30 CH4	0.0049131	47	0%
2017 Annual	Santa Clara (SF)	T6 OOS Heavy	Dsl	68	40 RUNEX	35 CH4	0.004053963	68	0%
2017 Annual	Santa Clara (SF)	T6 OOS Heavy	Dsl	68	40 RUNEX	40 CH4	0.003404498	66	0%
2017 Annual	Santa Clara (SF)	T6 OOS Heavy	Dsl	68	40 RUNEX	45 CH4	0.002948889	84	0%
2017 Annual	Santa Clara (SF)	T6 OOS Heavy	Dsl	68	40 RUNEX	50 CH4	0.002674798	113	0%
2017 Annual	Santa Clara (SF)	T6 OOS Heavy	Dsl	68	40 RUNEX	55 CH4	0.002572308	265	0%
2017 Annual	Santa Clara (SF)	T6 OOS Heavy	Dsl	68	40 RUNEX	60 CH4	0.002607552	921	0%
2017 Annual	Santa Clara (SF)	T6 OOS Heavy	Dsl	68	40 RUNEX	65 CH4	0.002664393	1777	0%
2017 Annual	Santa Clara (SF)	T6 OOS Heavy	Dsl	68	40 RUNEX	70 CH4	0.002703991	21	0%
2017 Annual	Santa Clara (SF)	T6 OOS Heavy	Dsl	68	40 RUNEX	75 CH4	0.002753348	0	0%
2017 Annual	Santa Clara (SF)	T6 OOS Heavy	Dsl	68	40 RUNEX	80 CH4	0.002812464	0	0%

2017 Annual	Santa Clara (SF)	T6 OOS Heavy	Dsl	68	40	RUNEX	85 CH4	0.00288134	0	0%
2017 Annual	Santa Clara (SF)	T6 OOS Heavy	Dsl	68	40	RUNEX	90 CH4	0.002959975	0	0%
2017 Annual	Santa Clara (SF)	T6 OOS Small	Dsl	68	40	RUNEX	5 CH4	0.075329315	4	0%
2017 Annual	Santa Clara (SF)	T6 OOS Small	Dsl	68	40	RUNEX	10 CH4	0.056757491	9	0%
2017 Annual	Santa Clara (SF)	T6 OOS Small	Dsl	68	40	RUNEX	15 CH4	0.029709486	9	0%
2017 Annual	Santa Clara (SF)	T6 OOS Small	Dsl	68	40	RUNEX	20 CH4	0.014731708	12	0%
2017 Annual	Santa Clara (SF)	T6 OOS Small	Dsl	68	40	RUNEX	25 CH4	0.011047916	10	0%
2017 Annual	Santa Clara (SF)	T6 OOS Small	Dsl	68	40	RUNEX	30 CH4	0.009113789	6	0%
2017 Annual	Santa Clara (SF)	T6 OOS Small	Dsl	68	40	RUNEX	35 CH4	0.00757461	9	0%
2017 Annual	Santa Clara (SF)	T6 OOS Small	Dsl	68	40	RUNEX	40 CH4	0.006401765	9	0%
2017 Annual	Santa Clara (SF)	T6 OOS Small	Dsl	68	40	RUNEX	45 CH4	0.005573555	12	0%
2017 Annual	Santa Clara (SF)	T6 OOS Small	Dsl	68	40	RUNEX	50 CH4	0.00507322	16	0%
2017 Annual	Santa Clara (SF)	T6 OOS Small	Dsl	68	40	RUNEX	55 CH4	0.004887481	37	0%
2017 Annual	Santa Clara (SF)	T6 OOS Small	Dsl	68	40	RUNEX	60 CH4	0.004933472	127	0%
2017 Annual	Santa Clara (SF)	T6 OOS Small	Dsl	68	40	RUNEX	65 CH4	0.004988101	246	0%
2017 Annual	Santa Clara (SF)	T6 OOS Small	Dsl	68	40	RUNEX	70 CH4	0.005021118	3	0%
2017 Annual	Santa Clara (SF)	T6 OOS Small	Dsl	68	40	RUNEX	75 CH4	0.005062273	0	0%
2017 Annual	Santa Clara (SF)	T6 OOS Small	Dsl	68	40	RUNEX	80 CH4	0.005111565	0	0%
2017 Annual	Santa Clara (SF)	T6 OOS Small	Dsl	68	40	RUNEX	85 CH4	0.005168994	0	0%
2017 Annual	Santa Clara (SF)	T6 OOS Small	Dsl	68	40	RUNEX	90 CH4	0.005234561	0	0%
2017 Annual	Santa Clara (SF)	T6 Public	Dsl	68	40	RUNEX	5 CH4	0.025603329	455	0%
2017 Annual	Santa Clara (SF)	T6 Public	Dsl	68	40	RUNEX	10 CH4	0.019727965	865	0%
2017 Annual	Santa Clara (SF)	T6 Public	Dsl	68	40	RUNEX	15 CH4	0.011042436	692	0%
2017 Annual	Santa Clara (SF)	T6 Public	Dsl	68	40	RUNEX	20 CH4	0.005695642	516	0%
2017 Annual	Santa Clara (SF)	T6 Public	Dsl	68	40	RUNEX	25 CH4	0.004103511	731	0%
2017 Annual	Santa Clara (SF)	T6 Public	Dsl	68	40	RUNEX	30 CH4	0.003318352	1015	0%
2017 Annual	Santa Clara (SF)	T6 Public	Dsl	68	40	RUNEX	35 CH4	0.0027149	1296	0%
2017 Annual	Santa Clara (SF)	T6 Public	Dsl	68	40	RUNEX	40 CH4	0.002277923	1490	0%
2017 Annual	Santa Clara (SF)	T6 Public	Dsl	68	40	RUNEX	45 CH4	0.001995953	1380	0%
2017 Annual	Santa Clara (SF)	T6 Public	Dsl	68	40	RUNEX	50 CH4	0.001860233	993	0%
2017 Annual	Santa Clara (SF)	T6 Public	Dsl	68	40	RUNEX	55 CH4	0.001863944	1169	0%
2017 Annual	Santa Clara (SF)	T6 Public	Dsl	68	40	RUNEX	60 CH4	0.001928789	1343	0%
2017 Annual	Santa Clara (SF)	T6 Public	Dsl	68	40	RUNEX	65 CH4	0.001957852	571	0%
2017 Annual	Santa Clara (SF)	T6 Public	Dsl	68	40	RUNEX	70 CH4	0.001972287	242	0%
2017 Annual	Santa Clara (SF)	T6 Public	Dsl	68	40	RUNEX	75 CH4	0.00199028	59	0%
2017 Annual	Santa Clara (SF)	T6 Public	Dsl	68	40	RUNEX	80 CH4	0.002011831	0	0%
2017 Annual	Santa Clara (SF)	T6 Public	Dsl	68	40	RUNEX	85 CH4	0.00203694	0	0%
2017 Annual	Santa Clara (SF)	T6 Public	Dsl	68	40	RUNEX	90 CH4	0.002065606	0	0%
2017 Annual	Santa Clara (SF)	T6 Utility	Dsl	68	40	RUNEX	5 CH4	0.010040617	32	0%
2017 Annual	Santa Clara (SF)	T6 Utility	Dsl	68	40	RUNEX	10 CH4	0.007543631	115	0%
2017 Annual	Santa Clara (SF)	T6 Utility	Dsl	68	40	RUNEX	15 CH4	0.004620096	122	0%
2017 Annual	Santa Clara (SF)	T6 Utility	Dsl	68	40	RUNEX	20 CH4	0.00298435	103	0%
2017 Annual	Santa Clara (SF)	T6 Utility	Dsl	68	40	RUNEX	25 CH4	0.002228236	122	0%
2017 Annual	Santa Clara (SF)	T6 Utility	Dsl	68	40	RUNEX	30 CH4	0.00171995	158	0%
2017 Annual	Santa Clara (SF)	T6 Utility	Dsl	68	40	RUNEX	35 CH4	0.001338771	193	0%
2017 Annual	Santa Clara (SF)	T6 Utility	Dsl	68	40	RUNEX	40 CH4	0.001059669	255	0%
2017 Annual	Santa Clara (SF)	T6 Utility	Dsl	68	40	RUNEX	45 CH4	0.000864189	262	0%
2017 Annual	Santa Clara (SF)	T6 Utility	Dsl	68	40	RUNEX	50 CH4	0.000738717	242	0%
2017 Annual	Santa Clara (SF)	T6 Utility	Dsl	68	40	RUNEX	55 CH4	0.000673203	377	0%
2017 Annual	Santa Clara (SF)	T6 Utility	Dsl	68	40	RUNEX	60 CH4	0.000683308	255	0%
2017 Annual	Santa Clara (SF)	T6 Utility	Dsl	68	40	RUNEX	65 CH4	0.000743504	2	0%
2017 Annual	Santa Clara (SF)	T6 Utility	Dsl	68	40	RUNEX	70 CH4	0.00076943	0	0%
2017 Annual	Santa Clara (SF)	T6 Utility	Dsl	68	40	RUNEX	75 CH4	0.000801746	0	0%
2017 Annual	Santa Clara (SF)	T6 Utility	Dsl	68	40	RUNEX	80 CH4	0.000840452	0	0%
2017 Annual	Santa Clara (SF)	T6 Utility	Dsl	68	40	RUNEX	85 CH4	0.000885547	0	0%
2017 Annual	Santa Clara (SF)	T6 Utility	Dsl	68	40	RUNEX	90 CH4	0.000937032	0	0%
2017 Annual	Santa Clara (SF)	T6TS	Gas	68	40	RUNEX	5 CH4	0.215858256	511	0%
2017 Annual	Santa Clara (SF)	T6TS	Gas	68	40	RUNEX	10 CH4	0.146338559	2692	0%
2017 Annual	Santa Clara (SF)	T6TS	Gas	68	40	RUNEX	15 CH4	0.103890365	3036	0%
2017 Annual	Santa Clara (SF)	T6TS	Gas	68	40	RUNEX	20 CH4	0.077223146	3317	0%
2017 Annual	Santa Clara (SF)	T6TS	Gas	68	40	RUNEX	25 CH4	0.060090137	3747	0%
2017 Annual	Santa Clara (SF)	T6TS	Gas	68	40	RUNEX	30 CH4	0.048940691	4074	0%
2017 Annual	Santa Clara (SF)	T6TS	Gas	68	40	RUNEX	35 CH4	0.041713926	5845	0%
2017 Annual	Santa Clara (SF)	T6TS	Gas	68	40	RUNEX	40 CH4	0.037202395	7717	0%
2017 Annual	Santa Clara (SF)	T6TS	Gas	68	40	RUNEX	45 CH4	0.034712023	6740	0%
2017 Annual	Santa Clara (SF)	T6TS	Gas	68	40	RUNEX	50 CH4	0.03388099	6565	0%
2017 Annual	Santa Clara (SF)	T6TS	Gas	68	40	RUNEX	55 CH4	0.034590331	7388	0%
2017 Annual	Santa Clara (SF)	T6TS	Gas	68	40	RUNEX	60 CH4	0.036935143	7803	0%
2017 Annual	Santa Clara (SF)	T6TS	Gas	68	40	RUNEX	65 CH4	0.041246451	1017	0%
2017 Annual	Santa Clara (SF)	T6TS	Gas	68	40	RUNEX	70 CH4	0.044325311	0	0%
2017 Annual	Santa Clara (SF)	T6TS	Gas	68	40	RUNEX	75 CH4	0.044325311	0	0%
2017 Annual	Santa Clara (SF)	T6TS	Gas	68	40	RUNEX	80 CH4	0.044325311	0	0%

2017 Annual	Santa Clara (SF)	T6TS	Gas	68	40	RUNEX	85 CH4	0.044325311	0	0%
2017 Annual	Santa Clara (SF)	T6TS	Gas	68	40	RUNEX	90 CH4	0.044325311	0	0%
2017 Annual	Santa Clara (SF)	T7 CAIRP	Dsl	68	40	RUNEX	5 CH4	0.071587003	1184	0%
2017 Annual	Santa Clara (SF)	T7 CAIRP	Dsl	68	40	RUNEX	10 CH4	0.054052521	2692	0%
2017 Annual	Santa Clara (SF)	T7 CAIRP	Dsl	68	40	RUNEX	15 CH4	0.030461067	2517	0%
2017 Annual	Santa Clara (SF)	T7 CAIRP	Dsl	68	40	RUNEX	20 CH4	0.017153835	3678	0%
2017 Annual	Santa Clara (SF)	T7 CAIRP	Dsl	68	40	RUNEX	25 CH4	0.012681718	3235	0%
2017 Annual	Santa Clara (SF)	T7 CAIRP	Dsl	68	40	RUNEX	30 CH4	0.00997939	1788	0%
2017 Annual	Santa Clara (SF)	T7 CAIRP	Dsl	68	40	RUNEX	35 CH4	0.00792278	2390	0%
2017 Annual	Santa Clara (SF)	T7 CAIRP	Dsl	68	40	RUNEX	40 CH4	0.006417395	2213	0%
2017 Annual	Santa Clara (SF)	T7 CAIRP	Dsl	68	40	RUNEX	45 CH4	0.005391335	2948	0%
2017 Annual	Santa Clara (SF)	T7 CAIRP	Dsl	68	40	RUNEX	50 CH4	0.00478877	4339	0%
2017 Annual	Santa Clara (SF)	T7 CAIRP	Dsl	68	40	RUNEX	55 CH4	0.004565129	10415	0%
2017 Annual	Santa Clara (SF)	T7 CAIRP	Dsl	68	40	RUNEX	60 CH4	0.004675878	38007	0%
2017 Annual	Santa Clara (SF)	T7 CAIRP	Dsl	68	40	RUNEX	65 CH4	0.004883608	69633	0%
2017 Annual	Santa Clara (SF)	T7 CAIRP	Dsl	68	40	RUNEX	70 CH4	0.0049633	856	0%
2017 Annual	Santa Clara (SF)	T7 CAIRP	Dsl	68	40	RUNEX	75 CH4	0.005062632	0	0%
2017 Annual	Santa Clara (SF)	T7 CAIRP	Dsl	68	40	RUNEX	80 CH4	0.005181605	0	0%
2017 Annual	Santa Clara (SF)	T7 CAIRP	Dsl	68	40	RUNEX	85 CH4	0.005320219	0	0%
2017 Annual	Santa Clara (SF)	T7 CAIRP	Dsl	68	40	RUNEX	90 CH4	0.005478474	0	0%
2017 Annual	Santa Clara (SF)	T7 CAIRP Construction	Dsl	68	40	RUNEX	5 CH4	0.071458669	1621	0%
2017 Annual	Santa Clara (SF)	T7 CAIRP Construction	Dsl	68	40	RUNEX	10 CH4	0.05395449	1115	0%
2017 Annual	Santa Clara (SF)	T7 CAIRP Construction	Dsl	68	40	RUNEX	15 CH4	0.030404965	237	0%
2017 Annual	Santa Clara (SF)	T7 CAIRP Construction	Dsl	68	40	RUNEX	20 CH4	0.017127324	236	0%
2017 Annual	Santa Clara (SF)	T7 CAIRP Construction	Dsl	68	40	RUNEX	25 CH4	0.012664388	318	0%
2017 Annual	Santa Clara (SF)	T7 CAIRP Construction	Dsl	68	40	RUNEX	30 CH4	0.009965475	382	0%
2017 Annual	Santa Clara (SF)	T7 CAIRP Construction	Dsl	68	40	RUNEX	35 CH4	0.007911369	493	0%
2017 Annual	Santa Clara (SF)	T7 CAIRP Construction	Dsl	68	40	RUNEX	40 CH4	0.006407458	633	0%
2017 Annual	Santa Clara (SF)	T7 CAIRP Construction	Dsl	68	40	RUNEX	45 CH4	0.005381791	769	0%
2017 Annual	Santa Clara (SF)	T7 CAIRP Construction	Dsl	68	40	RUNEX	50 CH4	0.004778551	772	0%
2017 Annual	Santa Clara (SF)	T7 CAIRP Construction	Dsl	68	40	RUNEX	55 CH4	0.004553235	942	0%
2017 Annual	Santa Clara (SF)	T7 CAIRP Construction	Dsl	68	40	RUNEX	60 CH4	0.004662143	3459	0%
2017 Annual	Santa Clara (SF)	T7 CAIRP Construction	Dsl	68	40	RUNEX	65 CH4	0.004868743	1696	0%
2017 Annual	Santa Clara (SF)	T7 CAIRP Construction	Dsl	68	40	RUNEX	70 CH4	0.004948985	379	0%
2017 Annual	Santa Clara (SF)	T7 CAIRP Construction	Dsl	68	40	RUNEX	75 CH4	0.005049005	300	0%
2017 Annual	Santa Clara (SF)	T7 CAIRP Construction	Dsl	68	40	RUNEX	80 CH4	0.005168801	0	0%
2017 Annual	Santa Clara (SF)	T7 CAIRP Construction	Dsl	68	40	RUNEX	85 CH4	0.005308373	0	0%
2017 Annual	Santa Clara (SF)	T7 CAIRP Construction	Dsl	68	40	RUNEX	90 CH4	0.005467722	0	0%
2017 Annual	Santa Clara (SF)	T7 NNOOS	Dsl	68	40	RUNEX	5 CH4	0.067078675	1443	0%
2017 Annual	Santa Clara (SF)	T7 NNOOS	Dsl	68	40	RUNEX	10 CH4	0.050240013	3282	0%
2017 Annual	Santa Clara (SF)	T7 NNOOS	Dsl	68	40	RUNEX	15 CH4	0.026805961	3069	0%
2017 Annual	Santa Clara (SF)	T7 NNOOS	Dsl	68	40	RUNEX	20 CH4	0.013893332	4484	0%
2017 Annual	Santa Clara (SF)	T7 NNOOS	Dsl	68	40	RUNEX	25 CH4	0.010401445	3944	0%
2017 Annual	Santa Clara (SF)	T7 NNOOS	Dsl	68	40	RUNEX	30 CH4	0.008466444	2180	0%
2017 Annual	Santa Clara (SF)	T7 NNOOS	Dsl	68	40	RUNEX	35 CH4	0.006950785	2914	0%
2017 Annual	Santa Clara (SF)	T7 NNOOS	Dsl	68	40	RUNEX	40 CH4	0.005815821	2698	0%
2017 Annual	Santa Clara (SF)	T7 NNOOS	Dsl	68	40	RUNEX	45 CH4	0.005031445	3593	0%
2017 Annual	Santa Clara (SF)	T7 NNOOS	Dsl	68	40	RUNEX	50 CH4	0.004573435	5289	0%
2017 Annual	Santa Clara (SF)	T7 NNOOS	Dsl	68	40	RUNEX	55 CH4	0.004421487	12698	0%
2017 Annual	Santa Clara (SF)	T7 NNOOS	Dsl	68	40	RUNEX	60 CH4	0.004522973	46335	0%
2017 Annual	Santa Clara (SF)	T7 NNOOS	Dsl	68	40	RUNEX	65 CH4	0.004677797	84892	0%
2017 Annual	Santa Clara (SF)	T7 NNOOS	Dsl	68	40	RUNEX	70 CH4	0.004784206	1043	0%
2017 Annual	Santa Clara (SF)	T7 NNOOS	Dsl	68	40	RUNEX	75 CH4	0.004916841	0	0%
2017 Annual	Santa Clara (SF)	T7 NNOOS	Dsl	68	40	RUNEX	80 CH4	0.005075701	0	0%
2017 Annual	Santa Clara (SF)	T7 NNOOS	Dsl	68	40	RUNEX	85 CH4	0.005260786	0	0%
2017 Annual	Santa Clara (SF)	T7 NNOOS	Dsl	68	40	RUNEX	90 CH4	0.005472097	0	0%
2017 Annual	Santa Clara (SF)	T7 NOOS	Dsl	68	40	RUNEX	5 CH4	0.070626762	465	0%
2017 Annual	Santa Clara (SF)	T7 NOOS	Dsl	68	40	RUNEX	10 CH4	0.053281839	1058	0%
2017 Annual	Santa Clara (SF)	T7 NOOS	Dsl	68	40	RUNEX	15 CH4	0.030036596	989	0%
2017 Annual	Santa Clara (SF)	T7 NOOS	Dsl	68	40	RUNEX	20 CH4	0.016972361	1445	0%
2017 Annual	Santa Clara (SF)	T7 NOOS	Dsl	68	40	RUNEX	25 CH4	0.012567083	1271	0%
2017 Annual	Santa Clara (SF)	T7 NOOS	Dsl	68	40	RUNEX	30 CH4	0.009890617	702	0%
2017 Annual	Santa Clara (SF)	T7 NOOS	Dsl	68	40	RUNEX	35 CH4	0.00785324	939	0%
2017 Annual	Santa Clara (SF)	T7 NOOS	Dsl	68	40	RUNEX	40 CH4	0.006359999	869	0%
2017 Annual	Santa Clara (SF)	T7 NOOS	Dsl	68	40	RUNEX	45 CH4	0.005339067	1158	0%
2017 Annual	Santa Clara (SF)	T7 NOOS	Dsl	68	40	RUNEX	50 CH4	0.004735187	1704	0%
2017 Annual	Santa Clara (SF)	T7 NOOS	Dsl	68	40	RUNEX	55 CH4	0.004504838	4092	0%
2017 Annual	Santa Clara (SF)	T7 NOOS	Dsl	68	40	RUNEX	60 CH4	0.004608363	14932	0%
2017 Annual	Santa Clara (SF)	T7 NOOS	Dsl	68	40	RUNEX	65 CH4	0.004816688	27357	0%
2017 Annual	Santa Clara (SF)	T7 NOOS	Dsl	68	40	RUNEX	70 CH4	0.004895935	336	0%
2017 Annual	Santa Clara (SF)	T7 NOOS	Dsl	68	40	RUNEX	75 CH4	0.004994714	0	0%
2017 Annual	Santa Clara (SF)	T7 NOOS	Dsl	68	40	RUNEX	80 CH4	0.005113025	0	0%

2017 Annual	Santa Clara (SF)	T7 NOOS	Dsl	68	40 RUNEX	85 CH4	0.005250866	0	0%
2017 Annual	Santa Clara (SF)	T7 NOOS	Dsl	68	40 RUNEX	90 CH4	0.005408239	0	0%
2017 Annual	Santa Clara (SF)	T7 Other Port	Dsl	68	40 RUNEX	5 CH4	0.055966439	620	0%
2017 Annual	Santa Clara (SF)	T7 Other Port	Dsl	68	40 RUNEX	10 CH4	0.043682677	1128	0%
2017 Annual	Santa Clara (SF)	T7 Other Port	Dsl	68	40 RUNEX	15 CH4	0.029784657	1043	0%
2017 Annual	Santa Clara (SF)	T7 Other Port	Dsl	68	40 RUNEX	20 CH4	0.02130207	807	0%
2017 Annual	Santa Clara (SF)	T7 Other Port	Dsl	68	40 RUNEX	25 CH4	0.015729643	838	0%
2017 Annual	Santa Clara (SF)	T7 Other Port	Dsl	68	40 RUNEX	30 CH4	0.011730292	1039	0%
2017 Annual	Santa Clara (SF)	T7 Other Port	Dsl	68	40 RUNEX	35 CH4	0.008777218	1282	0%
2017 Annual	Santa Clara (SF)	T7 Other Port	Dsl	68	40 RUNEX	40 CH4	0.006616414	1591	0%
2017 Annual	Santa Clara (SF)	T7 Other Port	Dsl	68	40 RUNEX	45 CH4	0.005060694	1665	0%
2017 Annual	Santa Clara (SF)	T7 Other Port	Dsl	68	40 RUNEX	50 CH4	0.003972116	1692	0%
2017 Annual	Santa Clara (SF)	T7 Other Port	Dsl	68	40 RUNEX	55 CH4	0.003249026	1484	0%
2017 Annual	Santa Clara (SF)	T7 Other Port	Dsl	68	40 RUNEX	60 CH4	0.003090146	979	0%
2017 Annual	Santa Clara (SF)	T7 Other Port	Dsl	68	40 RUNEX	65 CH4	0.00332827	385	0%
2017 Annual	Santa Clara (SF)	T7 Other Port	Dsl	68	40 RUNEX	70 CH4	0.00337565	9	0%
2017 Annual	Santa Clara (SF)	T7 Other Port	Dsl	68	40 RUNEX	75 CH4	0.003434706	0	0%
2017 Annual	Santa Clara (SF)	T7 Other Port	Dsl	68	40 RUNEX	80 CH4	0.00350544	0	0%
2017 Annual	Santa Clara (SF)	T7 Other Port	Dsl	68	40 RUNEX	85 CH4	0.003587851	0	0%
2017 Annual	Santa Clara (SF)	T7 Other Port	Dsl	68	40 RUNEX	90 CH4	0.003681939	0	0%
2017 Annual	Santa Clara (SF)	T7 POAK	Dsl	68	40 RUNEX	5 CH4	0.06298332	3211	0%
2017 Annual	Santa Clara (SF)	T7 POAK	Dsl	68	40 RUNEX	10 CH4	0.049383758	5840	0%
2017 Annual	Santa Clara (SF)	T7 POAK	Dsl	68	40 RUNEX	15 CH4	0.033777295	5400	0%
2017 Annual	Santa Clara (SF)	T7 POAK	Dsl	68	40 RUNEX	20 CH4	0.024168068	4175	0%
2017 Annual	Santa Clara (SF)	T7 POAK	Dsl	68	40 RUNEX	25 CH4	0.017830189	4339	0%
2017 Annual	Santa Clara (SF)	T7 POAK	Dsl	68	40 RUNEX	30 CH4	0.01328099	5377	0%
2017 Annual	Santa Clara (SF)	T7 POAK	Dsl	68	40 RUNEX	35 CH4	0.009922118	6638	0%
2017 Annual	Santa Clara (SF)	T7 POAK	Dsl	68	40 RUNEX	40 CH4	0.007461394	8237	0%
2017 Annual	Santa Clara (SF)	T7 POAK	Dsl	68	40 RUNEX	45 CH4	0.005683506	8621	0%
2017 Annual	Santa Clara (SF)	T7 POAK	Dsl	68	40 RUNEX	50 CH4	0.004429784	8762	0%
2017 Annual	Santa Clara (SF)	T7 POAK	Dsl	68	40 RUNEX	55 CH4	0.003583297	7683	0%
2017 Annual	Santa Clara (SF)	T7 POAK	Dsl	68	40 RUNEX	60 CH4	0.00337279	5071	0%
2017 Annual	Santa Clara (SF)	T7 POAK	Dsl	68	40 RUNEX	65 CH4	0.003605768	1995	0%
2017 Annual	Santa Clara (SF)	T7 POAK	Dsl	68	40 RUNEX	70 CH4	0.00364525	46	0%
2017 Annual	Santa Clara (SF)	T7 POAK	Dsl	68	40 RUNEX	75 CH4	0.003694462	0	0%
2017 Annual	Santa Clara (SF)	T7 POAK	Dsl	68	40 RUNEX	80 CH4	0.003753404	0	0%
2017 Annual	Santa Clara (SF)	T7 POAK	Dsl	68	40 RUNEX	85 CH4	0.003822078	0	0%
2017 Annual	Santa Clara (SF)	T7 POAK	Dsl	68	40 RUNEX	90 CH4	0.003900481	0	0%
2017 Annual	Santa Clara (SF)	T7 Public	Dsl	68	40 RUNEX	5 CH4	0.043007888	439	0%
2017 Annual	Santa Clara (SF)	T7 Public	Dsl	68	40 RUNEX	10 CH4	0.033373963	770	0%
2017 Annual	Santa Clara (SF)	T7 Public	Dsl	68	40 RUNEX	15 CH4	0.018992183	592	0%
2017 Annual	Santa Clara (SF)	T7 Public	Dsl	68	40 RUNEX	20 CH4	0.010044607	442	0%
2017 Annual	Santa Clara (SF)	T7 Public	Dsl	68	40 RUNEX	25 CH4	0.007210769	734	0%
2017 Annual	Santa Clara (SF)	T7 Public	Dsl	68	40 RUNEX	30 CH4	0.005747628	1193	0%
2017 Annual	Santa Clara (SF)	T7 Public	Dsl	68	40 RUNEX	35 CH4	0.004630764	1400	0%
2017 Annual	Santa Clara (SF)	T7 Public	Dsl	68	40 RUNEX	40 CH4	0.003822225	1463	0%
2017 Annual	Santa Clara (SF)	T7 Public	Dsl	68	40 RUNEX	45 CH4	0.003291022	1535	0%
2017 Annual	Santa Clara (SF)	T7 Public	Dsl	68	40 RUNEX	50 CH4	0.003010522	1005	0%
2017 Annual	Santa Clara (SF)	T7 Public	Dsl	68	40 RUNEX	55 CH4	0.00295653	1003	0%
2017 Annual	Santa Clara (SF)	T7 Public	Dsl	68	40 RUNEX	60 CH4	0.003040503	1176	0%
2017 Annual	Santa Clara (SF)	T7 Public	Dsl	68	40 RUNEX	65 CH4	0.003079825	526	0%
2017 Annual	Santa Clara (SF)	T7 Public	Dsl	68	40 RUNEX	70 CH4	0.003105064	287	0%
2017 Annual	Santa Clara (SF)	T7 Public	Dsl	68	40 RUNEX	75 CH4	0.003136522	84	0%
2017 Annual	Santa Clara (SF)	T7 Public	Dsl	68	40 RUNEX	80 CH4	0.003174201	0	0%
2017 Annual	Santa Clara (SF)	T7 Public	Dsl	68	40 RUNEX	85 CH4	0.003218101	0	0%
2017 Annual	Santa Clara (SF)	T7 Public	Dsl	68	40 RUNEX	90 CH4	0.00326822	0	0%
2017 Annual	Santa Clara (SF)	T7 Single	Dsl	68	40 RUNEX	5 CH4	0.216193449	1008	0%
2017 Annual	Santa Clara (SF)	T7 Single	Dsl	68	40 RUNEX	10 CH4	0.165280866	2349	0%
2017 Annual	Santa Clara (SF)	T7 Single	Dsl	68	40 RUNEX	15 CH4	0.087714101	2921	0%
2017 Annual	Santa Clara (SF)	T7 Single	Dsl	68	40 RUNEX	20 CH4	0.041824097	3732	0%
2017 Annual	Santa Clara (SF)	T7 Single	Dsl	68	40 RUNEX	25 CH4	0.029831691	5131	0%
2017 Annual	Santa Clara (SF)	T7 Single	Dsl	68	40 RUNEX	30 CH4	0.023932497	6468	0%
2017 Annual	Santa Clara (SF)	T7 Single	Dsl	68	40 RUNEX	35 CH4	0.019392303	5575	0%
2017 Annual	Santa Clara (SF)	T7 Single	Dsl	68	40 RUNEX	40 CH4	0.016162308	3570	0%
2017 Annual	Santa Clara (SF)	T7 Single	Dsl	68	40 RUNEX	45 CH4	0.01418937	2861	0%
2017 Annual	Santa Clara (SF)	T7 Single	Dsl	68	40 RUNEX	50 CH4	0.013412751	6763	0%
2017 Annual	Santa Clara (SF)	T7 Single	Dsl	68	40 RUNEX	55 CH4	0.013761707	17410	0%
2017 Annual	Santa Clara (SF)	T7 Single	Dsl	68	40 RUNEX	60 CH4	0.014470355	12553	0%
2017 Annual	Santa Clara (SF)	T7 Single	Dsl	68	40 RUNEX	65 CH4	0.014556545	4014	0%
2017 Annual	Santa Clara (SF)	T7 Single	Dsl	68	40 RUNEX	70 CH4	0.01460171	350	0%
2017 Annual	Santa Clara (SF)	T7 Single	Dsl	68	40 RUNEX	75 CH4	0.014658007	13	0%
2017 Annual	Santa Clara (SF)	T7 Single	Dsl	68	40 RUNEX	80 CH4	0.014725434	0	0%



2017 Annual	Santa Clara (SF)	T7 Single	Dsl	68	40 RUNEX	85 CH4	0.014803993	0	0%
2017 Annual	Santa Clara (SF)	T7 Single	Dsl	68	40 RUNEX	90 CH4	0.014893683	0	0%
2017 Annual	Santa Clara (SF)	T7 Single Construction	Dsl	68	40 RUNEX	5 CH4	0.196381817	4021	0%
2017 Annual	Santa Clara (SF)	T7 Single Construction	Dsl	68	40 RUNEX	10 CH4	0.150258092	2766	0%
2017 Annual	Santa Clara (SF)	T7 Single Construction	Dsl	68	40 RUNEX	15 CH4	0.080114187	588	0%
2017 Annual	Santa Clara (SF)	T7 Single Construction	Dsl	68	40 RUNEX	20 CH4	0.038618416	585	0%
2017 Annual	Santa Clara (SF)	T7 Single Construction	Dsl	68	40 RUNEX	25 CH4	0.027753396	789	0%
2017 Annual	Santa Clara (SF)	T7 Single Construction	Dsl	68	40 RUNEX	30 CH4	0.02242598	948	0%
2017 Annual	Santa Clara (SF)	T7 Single Construction	Dsl	68	40 RUNEX	35 CH4	0.018297867	1224	0%
2017 Annual	Santa Clara (SF)	T7 Single Construction	Dsl	68	40 RUNEX	40 CH4	0.015318463	1569	0%
2017 Annual	Santa Clara (SF)	T7 Single Construction	Dsl	68	40 RUNEX	45 CH4	0.013435124	1907	0%
2017 Annual	Santa Clara (SF)	T7 Single Construction	Dsl	68	40 RUNEX	50 CH4	0.012589759	1916	0%
2017 Annual	Santa Clara (SF)	T7 Single Construction	Dsl	68	40 RUNEX	55 CH4	0.012716323	2338	0%
2017 Annual	Santa Clara (SF)	T7 Single Construction	Dsl	68	40 RUNEX	60 CH4	0.013245757	8580	0%
2017 Annual	Santa Clara (SF)	T7 Single Construction	Dsl	68	40 RUNEX	65 CH4	0.01332844	4207	0%
2017 Annual	Santa Clara (SF)	T7 Single Construction	Dsl	68	40 RUNEX	70 CH4	0.013378644	939	0%
2017 Annual	Santa Clara (SF)	T7 Single Construction	Dsl	68	40 RUNEX	75 CH4	0.013441221	745	0%
2017 Annual	Santa Clara (SF)	T7 Single Construction	Dsl	68	40 RUNEX	80 CH4	0.013516171	0	0%
2017 Annual	Santa Clara (SF)	T7 Single Construction	Dsl	68	40 RUNEX	85 CH4	0.013603495	0	0%
2017 Annual	Santa Clara (SF)	T7 Single Construction	Dsl	68	40 RUNEX	90 CH4	0.013703191	0	0%
2017 Annual	Santa Clara (SF)	T7 SWCV	Dsl	68	40 RUNEX	5 CH4	0.005720438	463	0%
2017 Annual	Santa Clara (SF)	T7 SWCV	Dsl	68	40 RUNEX	10 CH4	0.004214886	1211	0%
2017 Annual	Santa Clara (SF)	T7 SWCV	Dsl	68	40 RUNEX	15 CH4	0.002717246	1296	0%
2017 Annual	Santa Clara (SF)	T7 SWCV	Dsl	68	40 RUNEX	20 CH4	0.001901629	1089	0%
2017 Annual	Santa Clara (SF)	T7 SWCV	Dsl	68	40 RUNEX	25 CH4	0.001423481	1322	0%
2017 Annual	Santa Clara (SF)	T7 SWCV	Dsl	68	40 RUNEX	30 CH4	0.001084232	1376	0%
2017 Annual	Santa Clara (SF)	T7 SWCV	Dsl	68	40 RUNEX	35 CH4	0.00083275	1498	0%
2017 Annual	Santa Clara (SF)	T7 SWCV	Dsl	68	40 RUNEX	40 CH4	0.00065137	1642	0%
2017 Annual	Santa Clara (SF)	T7 SWCV	Dsl	68	40 RUNEX	45 CH4	0.000527074	1817	0%
2017 Annual	Santa Clara (SF)	T7 SWCV	Dsl	68	40 RUNEX	50 CH4	0.000450266	1681	0%
2017 Annual	Santa Clara (SF)	T7 SWCV	Dsl	68	40 RUNEX	55 CH4	0.000413875	1339	0%
2017 Annual	Santa Clara (SF)	T7 SWCV	Dsl	68	40 RUNEX	60 CH4	0.000431955	1937	0%
2017 Annual	Santa Clara (SF)	T7 SWCV	Dsl	68	40 RUNEX	65 CH4	0.00049238	370	0%
2017 Annual	Santa Clara (SF)	T7 SWCV	Dsl	68	40 RUNEX	70 CH4	0.000493878	0	0%
2017 Annual	Santa Clara (SF)	T7 SWCV	Dsl	68	40 RUNEX	75 CH4	0.000495744	0	0%
2017 Annual	Santa Clara (SF)	T7 SWCV	Dsl	68	40 RUNEX	80 CH4	0.00049798	0	0%
2017 Annual	Santa Clara (SF)	T7 SWCV	Dsl	68	40 RUNEX	85 CH4	0.000500584	0	0%
2017 Annual	Santa Clara (SF)	T7 SWCV	Dsl	68	40 RUNEX	90 CH4	0.000503558	0	0%
2017 Annual	Santa Clara (SF)	T7 SWCV	NG	68	40 RUNEX	5 CH4	17.00290205	303	0%
2017 Annual	Santa Clara (SF)	T7 SWCV	NG	68	40 RUNEX	10 CH4	13.51039038	792	0%
2017 Annual	Santa Clara (SF)	T7 SWCV	NG	68	40 RUNEX	15 CH4	8.835495926	847	0%
2017 Annual	Santa Clara (SF)	T7 SWCV	NG	68	40 RUNEX	20 CH4	5.926360283	712	0%
2017 Annual	Santa Clara (SF)	T7 SWCV	NG	68	40 RUNEX	25 CH4	4.344201111	864	0%
2017 Annual	Santa Clara (SF)	T7 SWCV	NG	68	40 RUNEX	30 CH4	3.252144009	899	0%
2017 Annual	Santa Clara (SF)	T7 SWCV	NG	68	40 RUNEX	35 CH4	2.441706594	979	0%
2017 Annual	Santa Clara (SF)	T7 SWCV	NG	68	40 RUNEX	40 CH4	1.84453041	1073	0%
2017 Annual	Santa Clara (SF)	T7 SWCV	NG	68	40 RUNEX	45 CH4	1.410240192	1188	0%
2017 Annual	Santa Clara (SF)	T7 SWCV	NG	68	40 RUNEX	50 CH4	1.101712994	1099	0%
2017 Annual	Santa Clara (SF)	T7 SWCV	NG	68	40 RUNEX	55 CH4	0.891591873	876	0%
2017 Annual	Santa Clara (SF)	T7 SWCV	NG	68	40 RUNEX	60 CH4	0.816907972	1266	0%
2017 Annual	Santa Clara (SF)	T7 SWCV	NG	68	40 RUNEX	65 CH4	0.816907972	242	0%
2017 Annual	Santa Clara (SF)	T7 SWCV	NG	68	40 RUNEX	70 CH4	0.816907972	0	0%
2017 Annual	Santa Clara (SF)	T7 SWCV	NG	68	40 RUNEX	75 CH4	0.816907972	0	0%
2017 Annual	Santa Clara (SF)	T7 SWCV	NG	68	40 RUNEX	80 CH4	0.816907972	0	0%
2017 Annual	Santa Clara (SF)	T7 SWCV	NG	68	40 RUNEX	85 CH4	0.816907972	0	0%
2017 Annual	Santa Clara (SF)	T7 SWCV	NG	68	40 RUNEX	90 CH4	0.816907972	0	0%
2017 Annual	Santa Clara (SF)	T7 Tractor	Dsl	68	40 RUNEX	5 CH4	0.172265945	1031	0%
2017 Annual	Santa Clara (SF)	T7 Tractor	Dsl	68	40 RUNEX	10 CH4	0.131096867	2202	0%
2017 Annual	Santa Clara (SF)	T7 Tractor	Dsl	68	40 RUNEX	15 CH4	0.07057247	2808	0%
2017 Annual	Santa Clara (SF)	T7 Tractor	Dsl	68	40 RUNEX	20 CH4	0.035593579	3209	0%
2017 Annual	Santa Clara (SF)	T7 Tractor	Dsl	68	40 RUNEX	25 CH4	0.02571935	3903	0%
2017 Annual	Santa Clara (SF)	T7 Tractor	Dsl	68	40 RUNEX	30 CH4	0.02035743	4929	0%
2017 Annual	Santa Clara (SF)	T7 Tractor	Dsl	68	40 RUNEX	35 CH4	0.016257474	5749	0%
2017 Annual	Santa Clara (SF)	T7 Tractor	Dsl	68	40 RUNEX	40 CH4	0.013311377	7201	0%
2017 Annual	Santa Clara (SF)	T7 Tractor	Dsl	68	40 RUNEX	45 CH4	0.011426505	8487	0%
2017 Annual	Santa Clara (SF)	T7 Tractor	Dsl	68	40 RUNEX	50 CH4	0.010518302	12893	0%
2017 Annual	Santa Clara (SF)	T7 Tractor	Dsl	68	40 RUNEX	55 CH4	0.010504841	28946	0%
2017 Annual	Santa Clara (SF)	T7 Tractor	Dsl	68	40 RUNEX	60 CH4	0.01094956	91134	0%
2017 Annual	Santa Clara (SF)	T7 Tractor	Dsl	68	40 RUNEX	65 CH4	0.011115616	63004	0%
2017 Annual	Santa Clara (SF)	T7 Tractor	Dsl	68	40 RUNEX	70 CH4	0.011166098	19030	0%
2017 Annual	Santa Clara (SF)	T7 Tractor	Dsl	68	40 RUNEX	75 CH4	0.01122902	970	0%
2017 Annual	Santa Clara (SF)	T7 Tractor	Dsl	68	40 RUNEX	80 CH4	0.011304385	0	0%

2017 Annual	Santa Clara (SF)	T7 Tractor	Dsl	68	40	RUNEX	85 CH4	0.011392191	0	0%
2017 Annual	Santa Clara (SF)	T7 Tractor	Dsl	68	40	RUNEX	90 CH4	0.011492438	0	0%
2017 Annual	Santa Clara (SF)	T7 Tractor Construction	Dsl	68	40	RUNEX	5 CH4	0.199882906	3317	0%
2017 Annual	Santa Clara (SF)	T7 Tractor Construction	Dsl	68	40	RUNEX	10 CH4	0.15214459	2282	0%
2017 Annual	Santa Clara (SF)	T7 Tractor Construction	Dsl	68	40	RUNEX	15 CH4	0.081391576	485	0%
2017 Annual	Santa Clara (SF)	T7 Tractor Construction	Dsl	68	40	RUNEX	20 CH4	0.040486423	483	0%
2017 Annual	Santa Clara (SF)	T7 Tractor Construction	Dsl	68	40	RUNEX	25 CH4	0.029185003	651	0%
2017 Annual	Santa Clara (SF)	T7 Tractor Construction	Dsl	68	40	RUNEX	30 CH4	0.02312096	782	0%
2017 Annual	Santa Clara (SF)	T7 Tractor Construction	Dsl	68	40	RUNEX	35 CH4	0.018480418	1010	0%
2017 Annual	Santa Clara (SF)	T7 Tractor Construction	Dsl	68	40	RUNEX	40 CH4	0.015153764	1294	0%
2017 Annual	Santa Clara (SF)	T7 Tractor Construction	Dsl	68	40	RUNEX	45 CH4	0.013044614	1573	0%
2017 Annual	Santa Clara (SF)	T7 Tractor Construction	Dsl	68	40	RUNEX	50 CH4	0.012062335	1581	0%
2017 Annual	Santa Clara (SF)	T7 Tractor Construction	Dsl	68	40	RUNEX	55 CH4	0.012116528	1928	0%
2017 Annual	Santa Clara (SF)	T7 Tractor Construction	Dsl	68	40	RUNEX	60 CH4	0.012656629	7078	0%
2017 Annual	Santa Clara (SF)	T7 Tractor Construction	Dsl	68	40	RUNEX	65 CH4	0.012811062	3470	0%
2017 Annual	Santa Clara (SF)	T7 Tractor Construction	Dsl	68	40	RUNEX	70 CH4	0.012861088	775	0%
2017 Annual	Santa Clara (SF)	T7 Tractor Construction	Dsl	68	40	RUNEX	75 CH4	0.012923442	615	0%
2017 Annual	Santa Clara (SF)	T7 Tractor Construction	Dsl	68	40	RUNEX	80 CH4	0.012998126	0	0%
2017 Annual	Santa Clara (SF)	T7 Tractor Construction	Dsl	68	40	RUNEX	85 CH4	0.013085139	0	0%
2017 Annual	Santa Clara (SF)	T7 Tractor Construction	Dsl	68	40	RUNEX	90 CH4	0.013184481	0	0%
2017 Annual	Santa Clara (SF)	T7 Utility	Dsl	68	40	RUNEX	5 CH4	0.02221426	17	0%
2017 Annual	Santa Clara (SF)	T7 Utility	Dsl	68	40	RUNEX	10 CH4	0.017009419	67	0%
2017 Annual	Santa Clara (SF)	T7 Utility	Dsl	68	40	RUNEX	15 CH4	0.010616612	66	0%
2017 Annual	Santa Clara (SF)	T7 Utility	Dsl	68	40	RUNEX	20 CH4	0.006902435	51	0%
2017 Annual	Santa Clara (SF)	T7 Utility	Dsl	68	40	RUNEX	25 CH4	0.005106163	63	0%
2017 Annual	Santa Clara (SF)	T7 Utility	Dsl	68	40	RUNEX	30 CH4	0.003892145	83	0%
2017 Annual	Santa Clara (SF)	T7 Utility	Dsl	68	40	RUNEX	35 CH4	0.002986298	102	0%
2017 Annual	Santa Clara (SF)	T7 Utility	Dsl	68	40	RUNEX	40 CH4	0.002323623	141	0%
2017 Annual	Santa Clara (SF)	T7 Utility	Dsl	68	40	RUNEX	45 CH4	0.001856032	141	0%
2017 Annual	Santa Clara (SF)	T7 Utility	Dsl	68	40	RUNEX	50 CH4	0.00154785	135	0%
2017 Annual	Santa Clara (SF)	T7 Utility	Dsl	68	40	RUNEX	55 CH4	0.001372501	211	0%
2017 Annual	Santa Clara (SF)	T7 Utility	Dsl	68	40	RUNEX	60 CH4	0.001362454	159	0%
2017 Annual	Santa Clara (SF)	T7 Utility	Dsl	68	40	RUNEX	65 CH4	0.001450151	2	0%
2017 Annual	Santa Clara (SF)	T7 Utility	Dsl	68	40	RUNEX	70 CH4	0.001486311	0	0%
2017 Annual	Santa Clara (SF)	T7 Utility	Dsl	68	40	RUNEX	75 CH4	0.001531383	0	0%
2017 Annual	Santa Clara (SF)	T7 Utility	Dsl	68	40	RUNEX	80 CH4	0.001585367	0	0%
2017 Annual	Santa Clara (SF)	T7 Utility	Dsl	68	40	RUNEX	85 CH4	0.001648263	0	0%
2017 Annual	Santa Clara (SF)	T7 Utility	Dsl	68	40	RUNEX	90 CH4	0.001720071	0	0%
2017 Annual	Santa Clara (SF)	T7IS	Gas	68	40	RUNEX	5 CH4	1.154498319	2	0%
2017 Annual	Santa Clara (SF)	T7IS	Gas	68	40	RUNEX	10 CH4	0.788955275	8	0%
2017 Annual	Santa Clara (SF)	T7IS	Gas	68	40	RUNEX	15 CH4	0.564458865	8	0%
2017 Annual	Santa Clara (SF)	T7IS	Gas	68	40	RUNEX	20 CH4	0.422688214	16	0%
2017 Annual	Santa Clara (SF)	T7IS	Gas	68	40	RUNEX	25 CH4	0.331211009	21	0%
2017 Annual	Santa Clara (SF)	T7IS	Gas	68	40	RUNEX	30 CH4	0.271504946	37	0%
2017 Annual	Santa Clara (SF)	T7IS	Gas	68	40	RUNEX	35 CH4	0.232776492	69	0%
2017 Annual	Santa Clara (SF)	T7IS	Gas	68	40	RUNEX	40 CH4	0.208686846	53	0%
2017 Annual	Santa Clara (SF)	T7IS	Gas	68	40	RUNEX	45 CH4	0.195596598	63	0%
2017 Annual	Santa Clara (SF)	T7IS	Gas	68	40	RUNEX	50 CH4	0.191630654	53	0%
2017 Annual	Santa Clara (SF)	T7IS	Gas	68	40	RUNEX	55 CH4	0.196220743	82	0%
2017 Annual	Santa Clara (SF)	T7IS	Gas	68	40	RUNEX	60 CH4	0.209967601	18	0%
2017 Annual	Santa Clara (SF)	T7IS	Gas	68	40	RUNEX	65 CH4	0.234775918	10	0%
2017 Annual	Santa Clara (SF)	T7IS	Gas	68	40	RUNEX	70 CH4	0.252380437	0	0%
2017 Annual	Santa Clara (SF)	T7IS	Gas	68	40	RUNEX	75 CH4	0.252380437	0	0%
2017 Annual	Santa Clara (SF)	T7IS	Gas	68	40	RUNEX	80 CH4	0.252380437	0	0%
2017 Annual	Santa Clara (SF)	T7IS	Gas	68	40	RUNEX	85 CH4	0.252380437	0	0%
2017 Annual	Santa Clara (SF)	T7IS	Gas	68	40	RUNEX	90 CH4	0.252380437	0	0%
2017 Annual	Santa Clara (SF)	UBUS	Dsl	68	40	RUNEX	5 CH4	0.190311329	691	0%
2017 Annual	Santa Clara (SF)	UBUS	Dsl	68	40	RUNEX	10 CH4	0.145283698	2298	0%
2017 Annual	Santa Clara (SF)	UBUS	Dsl	68	40	RUNEX	15 CH4	0.098015278	3899	0%
2017 Annual	Santa Clara (SF)	UBUS	Dsl	68	40	RUNEX	20 CH4	0.073928768	34119	0%
2017 Annual	Santa Clara (SF)	UBUS	Dsl	68	40	RUNEX	25 CH4	0.062247802	439	0%
2017 Annual	Santa Clara (SF)	UBUS	Dsl	68	40	RUNEX	30 CH4	0.054543894	436	0%
2017 Annual	Santa Clara (SF)	UBUS	Dsl	68	40	RUNEX	35 CH4	0.048768192	606	0%
2017 Annual	Santa Clara (SF)	UBUS	Dsl	68	40	RUNEX	40 CH4	0.044252787	842	0%
2017 Annual	Santa Clara (SF)	UBUS	Dsl	68	40	RUNEX	45 CH4	0.040623736	708	0%
2017 Annual	Santa Clara (SF)	UBUS	Dsl	68	40	RUNEX	50 CH4	0.03765395	627	0%
2017 Annual	Santa Clara (SF)	UBUS	Dsl	68	40	RUNEX	55 CH4	0.035196852	921	0%
2017 Annual	Santa Clara (SF)	UBUS	Dsl	68	40	RUNEX	60 CH4	0.033219804	1256	0%
2017 Annual	Santa Clara (SF)	UBUS	Dsl	68	40	RUNEX	65 CH4	0.031585578	182	0%
2017 Annual	Santa Clara (SF)	UBUS	Dsl	68	40	RUNEX	70 CH4	0.031585578	0	0%
2017 Annual	Santa Clara (SF)	UBUS	Dsl	68	40	RUNEX	75 CH4	0.031585578	0	0%
2017 Annual	Santa Clara (SF)	UBUS	Dsl	68	40	RUNEX	80 CH4	0.031585578	0	0%

2017 Annual	Santa Clara (SF)	UBUS	Dsl	68	40	RUNEX	85 CH4	0.031585578	0	0%
2017 Annual	Santa Clara (SF)	UBUS	Dsl	68	40	RUNEX	90 CH4	0.031585578	0	0%
2017 Annual	Santa Clara (SF)	UBUS	Gas	68	40	RUNEX	5 CH4	0.020675099	15	0%
2017 Annual	Santa Clara (SF)	UBUS	Gas	68	40	RUNEX	10 CH4	0.013852212	50	0%
2017 Annual	Santa Clara (SF)	UBUS	Gas	68	40	RUNEX	15 CH4	0.009720187	85	0%
2017 Annual	Santa Clara (SF)	UBUS	Gas	68	40	RUNEX	20 CH4	0.007143566	746	0%
2017 Annual	Santa Clara (SF)	UBUS	Gas	68	40	RUNEX	25 CH4	0.005498439	10	0%
2017 Annual	Santa Clara (SF)	UBUS	Gas	68	40	RUNEX	30 CH4	0.004432478	10	0%
2017 Annual	Santa Clara (SF)	UBUS	Gas	68	40	RUNEX	35 CH4	0.003742301	13	0%
2017 Annual	Santa Clara (SF)	UBUS	Gas	68	40	RUNEX	40 CH4	0.003309139	18	0%
2017 Annual	Santa Clara (SF)	UBUS	Gas	68	40	RUNEX	45 CH4	0.00306461	15	0%
2017 Annual	Santa Clara (SF)	UBUS	Gas	68	40	RUNEX	50 CH4	0.002972486	14	0%
2017 Annual	Santa Clara (SF)	UBUS	Gas	68	40	RUNEX	55 CH4	0.003019594	20	0%
2017 Annual	Santa Clara (SF)	UBUS	Gas	68	40	RUNEX	60 CH4	0.003212632	27	0%
2017 Annual	Santa Clara (SF)	UBUS	Gas	68	40	RUNEX	65 CH4	0.003579794	4	0%
2017 Annual	Santa Clara (SF)	UBUS	Gas	68	40	RUNEX	70 CH4	0.003844928	0	0%
2017 Annual	Santa Clara (SF)	UBUS	Gas	68	40	RUNEX	75 CH4	0.003844928	0	0%
2017 Annual	Santa Clara (SF)	UBUS	Gas	68	40	RUNEX	80 CH4	0.003844928	0	0%
2017 Annual	Santa Clara (SF)	UBUS	Gas	68	40	RUNEX	85 CH4	0.003844928	0	0%
2017 Annual	Santa Clara (SF)	UBUS	Gas	68	40	RUNEX	90 CH4	0.003844928	0	0%
2017 Annual	Santa Clara (SF)	UBUS	NG	68	40	RUNEX	5 CH4	10.09420899	147	0%
2017 Annual	Santa Clara (SF)	UBUS	NG	68	40	RUNEX	10 CH4	8.395178671	489	0%
2017 Annual	Santa Clara (SF)	UBUS	NG	68	40	RUNEX	15 CH4	7.40130965	830	0%
2017 Annual	Santa Clara (SF)	UBUS	NG	68	40	RUNEX	20 CH4	6.696148357	7259	0%
2017 Annual	Santa Clara (SF)	UBUS	NG	68	40	RUNEX	25 CH4	6.149182764	93	0%
2017 Annual	Santa Clara (SF)	UBUS	NG	68	40	RUNEX	30 CH4	5.702279335	93	0%
2017 Annual	Santa Clara (SF)	UBUS	NG	68	40	RUNEX	35 CH4	5.324427869	129	0%
2017 Annual	Santa Clara (SF)	UBUS	NG	68	40	RUNEX	40 CH4	4.997118042	179	0%
2017 Annual	Santa Clara (SF)	UBUS	NG	68	40	RUNEX	45 CH4	4.708410313	151	0%
2017 Annual	Santa Clara (SF)	UBUS	NG	68	40	RUNEX	50 CH4	4.45015245	133	0%
2017 Annual	Santa Clara (SF)	UBUS	NG	68	40	RUNEX	55 CH4	4.216529794	196	0%
2017 Annual	Santa Clara (SF)	UBUS	NG	68	40	RUNEX	60 CH4	4.00324902	267	0%
2017 Annual	Santa Clara (SF)	UBUS	NG	68	40	RUNEX	65 CH4	3.807049727	39	0%
2017 Annual	Santa Clara (SF)	UBUS	NG	68	40	RUNEX	70 CH4	3.625397555	0	0%
2017 Annual	Santa Clara (SF)	UBUS	NG	68	40	RUNEX	75 CH4	3.625397555	0	0%
2017 Annual	Santa Clara (SF)	UBUS	NG	68	40	RUNEX	80 CH4	3.625397555	0	0%
2017 Annual	Santa Clara (SF)	UBUS	NG	68	40	RUNEX	85 CH4	3.625397555	0	0%
2017 Annual	Santa Clara (SF)	UBUS	NG	68	40	RUNEX	90 CH4	3.625397555	0	0%
2023 Annual	Santa Clara (SF)	All Other Buses	Dsl	68	40	RUNEX	5 CH4	0.002604421	649	0%
2023 Annual	Santa Clara (SF)	All Other Buses	Dsl	68	40	RUNEX	10 CH4	0.001634298	1962	0%
2023 Annual	Santa Clara (SF)	All Other Buses	Dsl	68	40	RUNEX	15 CH4	0.000908579	2231	0%
2023 Annual	Santa Clara (SF)	All Other Buses	Dsl	68	40	RUNEX	20 CH4	0.00061719	2591	0%
2023 Annual	Santa Clara (SF)	All Other Buses	Dsl	68	40	RUNEX	25 CH4	0.000484689	3152	0%
2023 Annual	Santa Clara (SF)	All Other Buses	Dsl	68	40	RUNEX	30 CH4	0.000392016	4298	0%
2023 Annual	Santa Clara (SF)	All Other Buses	Dsl	68	40	RUNEX	35 CH4	0.00032285	7906	0%
2023 Annual	Santa Clara (SF)	All Other Buses	Dsl	68	40	RUNEX	40 CH4	0.000277189	9399	0%
2023 Annual	Santa Clara (SF)	All Other Buses	Dsl	68	40	RUNEX	45 CH4	0.000255034	5957	0%
2023 Annual	Santa Clara (SF)	All Other Buses	Dsl	68	40	RUNEX	50 CH4	0.000256385	1759	0%
2023 Annual	Santa Clara (SF)	All Other Buses	Dsl	68	40	RUNEX	55 CH4	0.000281242	435	0%
2023 Annual	Santa Clara (SF)	All Other Buses	Dsl	68	40	RUNEX	60 CH4	0.000329604	32	0%
2023 Annual	Santa Clara (SF)	All Other Buses	Dsl	68	40	RUNEX	65 CH4	0.000401472	0	0%
2023 Annual	Santa Clara (SF)	All Other Buses	Dsl	68	40	RUNEX	70 CH4	0.000472967	0	0%
2023 Annual	Santa Clara (SF)	All Other Buses	Dsl	68	40	RUNEX	75 CH4	0.000562083	0	0%
2023 Annual	Santa Clara (SF)	All Other Buses	Dsl	68	40	RUNEX	80 CH4	0.000668819	0	0%
2023 Annual	Santa Clara (SF)	All Other Buses	Dsl	68	40	RUNEX	85 CH4	0.000793175	0	0%
2023 Annual	Santa Clara (SF)	All Other Buses	Dsl	68	40	RUNEX	90 CH4	0.000935153	0	0%
2023 Annual	Santa Clara (SF)	LDA	Dsl	68	40	RUNEX	5 CH4	0.008294564	386	0%
2023 Annual	Santa Clara (SF)	LDA	Dsl	68	40	RUNEX	10 CH4	0.006167563	268	0%
2023 Annual	Santa Clara (SF)	LDA	Dsl	68	40	RUNEX	15 CH4	0.003144413	1139	0%
2023 Annual	Santa Clara (SF)	LDA	Dsl	68	40	RUNEX	20 CH4	0.001373049	4167	0%
2023 Annual	Santa Clara (SF)	LDA	Dsl	68	40	RUNEX	25 CH4	0.000884858	10058	0%
2023 Annual	Santa Clara (SF)	LDA	Dsl	68	40	RUNEX	30 CH4	0.000687853	81141	0%
2023 Annual	Santa Clara (SF)	LDA	Dsl	68	40	RUNEX	35 CH4	0.000562978	17675	0%
2023 Annual	Santa Clara (SF)	LDA	Dsl	68	40	RUNEX	40 CH4	0.000480124	18191	0%
2023 Annual	Santa Clara (SF)	LDA	Dsl	68	40	RUNEX	45 CH4	0.000424433	34671	0%
2023 Annual	Santa Clara (SF)	LDA	Dsl	68	40	RUNEX	50 CH4	0.000388142	12000	0%
2023 Annual	Santa Clara (SF)	LDA	Dsl	68	40	RUNEX	55 CH4	0.000367342	23119	0%
2023 Annual	Santa Clara (SF)	LDA	Dsl	68	40	RUNEX	60 CH4	0.00037127	54752	0%
2023 Annual	Santa Clara (SF)	LDA	Dsl	68	40	RUNEX	65 CH4	0.00039769	22931	0%
2023 Annual	Santa Clara (SF)	LDA	Dsl	68	40	RUNEX	70 CH4	0.00041611	0	0%
2023 Annual	Santa Clara (SF)	LDA	Dsl	68	40	RUNEX	75 CH4	0.00041611	0	0%
2023 Annual	Santa Clara (SF)	LDA	Dsl	68	40	RUNEX	80 CH4	0.00041611	0	0%

2023 Annual	Santa Clara (SF)	LDA	Dsl	68	40	RUNEX	85 CH4	0.00041611	0	0%
2023 Annual	Santa Clara (SF)	LDA	Dsl	68	40	RUNEX	90 CH4	0.00041611	0	0%
2023 Annual	Santa Clara (SF)	LDA	Gas	68	40	RUNEX	5 CH4	0.013234258	36824	0%
2023 Annual	Santa Clara (SF)	LDA	Gas	68	40	RUNEX	10 CH4	0.008902892	25505	0%
2023 Annual	Santa Clara (SF)	LDA	Gas	68	40	RUNEX	15 CH4	0.006271243	108544	0%
2023 Annual	Santa Clara (SF)	LDA	Gas	68	40	RUNEX	20 CH4	0.004624828	397272	1%
2023 Annual	Santa Clara (SF)	LDA	Gas	68	40	RUNEX	25 CH4	0.003570152	958861	2%
2023 Annual	Santa Clara (SF)	LDA	Gas	68	40	RUNEX	30 CH4	0.002884469	7735176	17%
2023 Annual	Santa Clara (SF)	LDA	Gas	68	40	RUNEX	35 CH4	0.002438866	1684955	4%
2023 Annual	Santa Clara (SF)	LDA	Gas	68	40	RUNEX	40 CH4	0.002157857	1734147	4%
2023 Annual	Santa Clara (SF)	LDA	Gas	68	40	RUNEX	45 CH4	0.001997837	3305219	7%
2023 Annual	Santa Clara (SF)	LDA	Gas	68	40	RUNEX	50 CH4	0.001935577	1143969	2%
2023 Annual	Santa Clara (SF)	LDA	Gas	68	40	RUNEX	55 CH4	0.001962473	2203903	5%
2023 Annual	Santa Clara (SF)	LDA	Gas	68	40	RUNEX	60 CH4	0.002082502	5219471	11%
2023 Annual	Santa Clara (SF)	LDA	Gas	68	40	RUNEX	65 CH4	0.002313215	2185966	5%
2023 Annual	Santa Clara (SF)	LDA	Gas	68	40	RUNEX	70 CH4	0.00248025	0	0%
2023 Annual	Santa Clara (SF)	LDA	Gas	68	40	RUNEX	75 CH4	0.00248025	0	0%
2023 Annual	Santa Clara (SF)	LDA	Gas	68	40	RUNEX	80 CH4	0.00248025	0	0%
2023 Annual	Santa Clara (SF)	LDA	Gas	68	40	RUNEX	85 CH4	0.00248025	0	0%
2023 Annual	Santa Clara (SF)	LDA	Gas	68	40	RUNEX	90 CH4	0.00248025	0	0%
2023 Annual	Santa Clara (SF)	LDT1	Dsl	68	40	RUNEX	5 CH4	0.040220853	1	0%
2023 Annual	Santa Clara (SF)	LDT1	Dsl	68	40	RUNEX	10 CH4	0.028201801	1	0%
2023 Annual	Santa Clara (SF)	LDT1	Dsl	68	40	RUNEX	15 CH4	0.019850388	3	0%
2023 Annual	Santa Clara (SF)	LDT1	Dsl	68	40	RUNEX	20 CH4	0.014605154	9	0%
2023 Annual	Santa Clara (SF)	LDT1	Dsl	68	40	RUNEX	25 CH4	0.011542473	22	0%
2023 Annual	Santa Clara (SF)	LDT1	Dsl	68	40	RUNEX	30 CH4	0.009609143	180	0%
2023 Annual	Santa Clara (SF)	LDT1	Dsl	68	40	RUNEX	35 CH4	0.008374464	39	0%
2023 Annual	Santa Clara (SF)	LDT1	Dsl	68	40	RUNEX	40 CH4	0.007637445	40	0%
2023 Annual	Santa Clara (SF)	LDT1	Dsl	68	40	RUNEX	45 CH4	0.00728782	77	0%
2023 Annual	Santa Clara (SF)	LDT1	Dsl	68	40	RUNEX	50 CH4	0.0072762	27	0%
2023 Annual	Santa Clara (SF)	LDT1	Dsl	68	40	RUNEX	55 CH4	0.007601567	51	0%
2023 Annual	Santa Clara (SF)	LDT1	Dsl	68	40	RUNEX	60 CH4	0.008316249	121	0%
2023 Annual	Santa Clara (SF)	LDT1	Dsl	68	40	RUNEX	65 CH4	0.009524734	51	0%
2023 Annual	Santa Clara (SF)	LDT1	Dsl	68	40	RUNEX	70 CH4	0.010367313	0	0%
2023 Annual	Santa Clara (SF)	LDT1	Dsl	68	40	RUNEX	75 CH4	0.010367313	0	0%
2023 Annual	Santa Clara (SF)	LDT1	Dsl	68	40	RUNEX	80 CH4	0.010367313	0	0%
2023 Annual	Santa Clara (SF)	LDT1	Dsl	68	40	RUNEX	85 CH4	0.010367313	0	0%
2023 Annual	Santa Clara (SF)	LDT1	Dsl	68	40	RUNEX	90 CH4	0.010367313	0	0%
2023 Annual	Santa Clara (SF)	LDT1	Gas	68	40	RUNEX	5 CH4	0.024387351	3409	0%
2023 Annual	Santa Clara (SF)	LDT1	Gas	68	40	RUNEX	10 CH4	0.016697686	2361	0%
2023 Annual	Santa Clara (SF)	LDT1	Gas	68	40	RUNEX	15 CH4	0.011955633	10048	0%
2023 Annual	Santa Clara (SF)	LDT1	Gas	68	40	RUNEX	20 CH4	0.008944885	36776	0%
2023 Annual	Santa Clara (SF)	LDT1	Gas	68	40	RUNEX	25 CH4	0.006988027	88764	0%
2023 Annual	Santa Clara (SF)	LDT1	Gas	68	40	RUNEX	30 CH4	0.005697157	716063	2%
2023 Annual	Santa Clara (SF)	LDT1	Gas	68	40	RUNEX	35 CH4	0.004845032	155980	0%
2023 Annual	Santa Clara (SF)	LDT1	Gas	68	40	RUNEX	40 CH4	0.004296891	160534	0%
2023 Annual	Santa Clara (SF)	LDT1	Gas	68	40	RUNEX	45 CH4	0.003973702	305972	1%
2023 Annual	Santa Clara (SF)	LDT1	Gas	68	40	RUNEX	50 CH4	0.003832347	105900	0%
2023 Annual	Santa Clara (SF)	LDT1	Gas	68	40	RUNEX	55 CH4	0.003855541	204020	0%
2023 Annual	Santa Clara (SF)	LDT1	Gas	68	40	RUNEX	60 CH4	0.004048092	483179	1%
2023 Annual	Santa Clara (SF)	LDT1	Gas	68	40	RUNEX	65 CH4	0.004438286	202360	0%
2023 Annual	Santa Clara (SF)	LDT1	Gas	68	40	RUNEX	70 CH4	0.00472433	0	0%
2023 Annual	Santa Clara (SF)	LDT1	Gas	68	40	RUNEX	75 CH4	0.00472433	0	0%
2023 Annual	Santa Clara (SF)	LDT1	Gas	68	40	RUNEX	80 CH4	0.00472433	0	0%
2023 Annual	Santa Clara (SF)	LDT1	Gas	68	40	RUNEX	85 CH4	0.00472433	0	0%
2023 Annual	Santa Clara (SF)	LDT1	Gas	68	40	RUNEX	90 CH4	0.00472433	0	0%
2023 Annual	Santa Clara (SF)	LDT2	Dsl	68	40	RUNEX	5 CH4	0.01210709	91	0%
2023 Annual	Santa Clara (SF)	LDT2	Dsl	68	40	RUNEX	10 CH4	0.009049492	63	0%
2023 Annual	Santa Clara (SF)	LDT2	Dsl	68	40	RUNEX	15 CH4	0.00446267	268	0%
2023 Annual	Santa Clara (SF)	LDT2	Dsl	68	40	RUNEX	20 CH4	0.001784811	981	0%
2023 Annual	Santa Clara (SF)	LDT2	Dsl	68	40	RUNEX	25 CH4	0.001091421	2367	0%
2023 Annual	Santa Clara (SF)	LDT2	Dsl	68	40	RUNEX	30 CH4	0.000830859	19094	0%
2023 Annual	Santa Clara (SF)	LDT2	Dsl	68	40	RUNEX	35 CH4	0.000665952	4159	0%
2023 Annual	Santa Clara (SF)	LDT2	Dsl	68	40	RUNEX	40 CH4	0.000554267	4281	0%
2023 Annual	Santa Clara (SF)	LDT2	Dsl	68	40	RUNEX	45 CH4	0.000475176	8159	0%
2023 Annual	Santa Clara (SF)	LDT2	Dsl	68	40	RUNEX	50 CH4	0.000417666	2824	0%
2023 Annual	Santa Clara (SF)	LDT2	Dsl	68	40	RUNEX	55 CH4	0.000375542	5440	0%
2023 Annual	Santa Clara (SF)	LDT2	Dsl	68	40	RUNEX	60 CH4	0.000362075	12884	0%
2023 Annual	Santa Clara (SF)	LDT2	Dsl	68	40	RUNEX	65 CH4	0.00037082	5396	0%
2023 Annual	Santa Clara (SF)	LDT2	Dsl	68	40	RUNEX	70 CH4	0.000376917	0	0%
2023 Annual	Santa Clara (SF)	LDT2	Dsl	68	40	RUNEX	75 CH4	0.000376917	0	0%
2023 Annual	Santa Clara (SF)	LDT2	Dsl	68	40	RUNEX	80 CH4	0.000376917	0	0%

2023 Annual	Santa Clara (SF)	LDT2	Dsl	68	40	RUNEX	85 CH4	0.000376917	0	0%
2023 Annual	Santa Clara (SF)	LDT2	Dsl	68	40	RUNEX	90 CH4	0.000376917	0	0%
2023 Annual	Santa Clara (SF)	LDT2	Gas	68	40	RUNEX	5 CH4	0.020567604	11423	0%
2023 Annual	Santa Clara (SF)	LDT2	Gas	68	40	RUNEX	10 CH4	0.013926663	7912	0%
2023 Annual	Santa Clara (SF)	LDT2	Gas	68	40	RUNEX	15 CH4	0.009870006	33671	0%
2023 Annual	Santa Clara (SF)	LDT2	Gas	68	40	RUNEX	20 CH4	0.007318278	123235	0%
2023 Annual	Santa Clara (SF)	LDT2	Gas	68	40	RUNEX	25 CH4	0.005674735	297442	1%
2023 Annual	Santa Clara (SF)	LDT2	Gas	68	40	RUNEX	30 CH4	0.004600212	2399476	5%
2023 Annual	Santa Clara (SF)	LDT2	Gas	68	40	RUNEX	35 CH4	0.003897562	522678	1%
2023 Annual	Santa Clara (SF)	LDT2	Gas	68	40	RUNEX	40 CH4	0.003450802	537938	1%
2023 Annual	Santa Clara (SF)	LDT2	Gas	68	40	RUNEX	45 CH4	0.003192542	1025289	2%
2023 Annual	Santa Clara (SF)	LDT2	Gas	68	40	RUNEX	50 CH4	0.00308653	354863	1%
2023 Annual	Santa Clara (SF)	LDT2	Gas	68	40	RUNEX	55 CH4	0.003118865	683658	1%
2023 Annual	Santa Clara (SF)	LDT2	Gas	68	40	RUNEX	60 CH4	0.003294817	1619096	3%
2023 Annual	Santa Clara (SF)	LDT2	Gas	68	40	RUNEX	65 CH4	0.003640212	678094	1%
2023 Annual	Santa Clara (SF)	LDT2	Gas	68	40	RUNEX	70 CH4	0.003891577	0	0%
2023 Annual	Santa Clara (SF)	LDT2	Gas	68	40	RUNEX	75 CH4	0.003891577	0	0%
2023 Annual	Santa Clara (SF)	LDT2	Gas	68	40	RUNEX	80 CH4	0.003891577	0	0%
2023 Annual	Santa Clara (SF)	LDT2	Gas	68	40	RUNEX	85 CH4	0.003891577	0	0%
2023 Annual	Santa Clara (SF)	LDT2	Gas	68	40	RUNEX	90 CH4	0.003891577	0	0%
2023 Annual	Santa Clara (SF)	LHD1	Dsl	68	40	RUNEX	5 CH4	0.034439579	9127	0%
2023 Annual	Santa Clara (SF)	LHD1	Dsl	68	40	RUNEX	10 CH4	0.025350135	23361	0%
2023 Annual	Santa Clara (SF)	LHD1	Dsl	68	40	RUNEX	15 CH4	0.013752266	58819	0%
2023 Annual	Santa Clara (SF)	LHD1	Dsl	68	40	RUNEX	20 CH4	0.006903451	62832	0%
2023 Annual	Santa Clara (SF)	LHD1	Dsl	68	40	RUNEX	25 CH4	0.004771229	66152	0%
2023 Annual	Santa Clara (SF)	LHD1	Dsl	68	40	RUNEX	30 CH4	0.003805266	52973	0%
2023 Annual	Santa Clara (SF)	LHD1	Dsl	68	40	RUNEX	35 CH4	0.003191583	28970	0%
2023 Annual	Santa Clara (SF)	LHD1	Dsl	68	40	RUNEX	40 CH4	0.002796839	15106	0%
2023 Annual	Santa Clara (SF)	LHD1	Dsl	68	40	RUNEX	45 CH4	0.002553568	15014	0%
2023 Annual	Santa Clara (SF)	LHD1	Dsl	68	40	RUNEX	50 CH4	0.002427751	65653	0%
2023 Annual	Santa Clara (SF)	LHD1	Dsl	68	40	RUNEX	55 CH4	0.002405881	37993	0%
2023 Annual	Santa Clara (SF)	LHD1	Dsl	68	40	RUNEX	60 CH4	0.002527444	0	0%
2023 Annual	Santa Clara (SF)	LHD1	Dsl	68	40	RUNEX	65 CH4	0.00280061	0	0%
2023 Annual	Santa Clara (SF)	LHD1	Dsl	68	40	RUNEX	70 CH4	0.002991066	0	0%
2023 Annual	Santa Clara (SF)	LHD1	Dsl	68	40	RUNEX	75 CH4	0.002991066	0	0%
2023 Annual	Santa Clara (SF)	LHD1	Dsl	68	40	RUNEX	80 CH4	0.002991066	0	0%
2023 Annual	Santa Clara (SF)	LHD1	Dsl	68	40	RUNEX	85 CH4	0.002991066	0	0%
2023 Annual	Santa Clara (SF)	LHD1	Dsl	68	40	RUNEX	90 CH4	0.002991066	0	0%
2023 Annual	Santa Clara (SF)	LHD1	Gas	68	40	RUNEX	5 CH4	0.029301879	17506	0%
2023 Annual	Santa Clara (SF)	LHD1	Gas	68	40	RUNEX	10 CH4	0.020186023	38289	0%
2023 Annual	Santa Clara (SF)	LHD1	Gas	68	40	RUNEX	15 CH4	0.014553506	97521	0%
2023 Annual	Santa Clara (SF)	LHD1	Gas	68	40	RUNEX	20 CH4	0.010977366	110239	0%
2023 Annual	Santa Clara (SF)	LHD1	Gas	68	40	RUNEX	25 CH4	0.00865967	86794	0%
2023 Annual	Santa Clara (SF)	LHD1	Gas	68	40	RUNEX	30 CH4	0.007142379	73567	0%
2023 Annual	Santa Clara (SF)	LHD1	Gas	68	40	RUNEX	35 CH4	0.006157447	28481	0%
2023 Annual	Santa Clara (SF)	LHD1	Gas	68	40	RUNEX	40 CH4	0.005547065	7642	0%
2023 Annual	Santa Clara (SF)	LHD1	Gas	68	40	RUNEX	45 CH4	0.005220739	8480	0%
2023 Annual	Santa Clara (SF)	LHD1	Gas	68	40	RUNEX	50 CH4	0.005132426	74458	0%
2023 Annual	Santa Clara (SF)	LHD1	Gas	68	40	RUNEX	55 CH4	0.005269458	19165	0%
2023 Annual	Santa Clara (SF)	LHD1	Gas	68	40	RUNEX	60 CH4	0.005649455	0	0%
2023 Annual	Santa Clara (SF)	LHD1	Gas	68	40	RUNEX	65 CH4	0.006324223	0	0%
2023 Annual	Santa Clara (SF)	LHD1	Gas	68	40	RUNEX	70 CH4	0.006800368	0	0%
2023 Annual	Santa Clara (SF)	LHD1	Gas	68	40	RUNEX	75 CH4	0.006800368	0	0%
2023 Annual	Santa Clara (SF)	LHD1	Gas	68	40	RUNEX	80 CH4	0.006800368	0	0%
2023 Annual	Santa Clara (SF)	LHD1	Gas	68	40	RUNEX	85 CH4	0.006800368	0	0%
2023 Annual	Santa Clara (SF)	LHD1	Gas	68	40	RUNEX	90 CH4	0.006800368	0	0%
2023 Annual	Santa Clara (SF)	LHD2	Dsl	68	40	RUNEX	5 CH4	0.03440028	3591	0%
2023 Annual	Santa Clara (SF)	LHD2	Dsl	68	40	RUNEX	10 CH4	0.025397176	9191	0%
2023 Annual	Santa Clara (SF)	LHD2	Dsl	68	40	RUNEX	15 CH4	0.013531495	23142	0%
2023 Annual	Santa Clara (SF)	LHD2	Dsl	68	40	RUNEX	20 CH4	0.006541498	24721	0%
2023 Annual	Santa Clara (SF)	LHD2	Dsl	68	40	RUNEX	25 CH4	0.004442691	26027	0%
2023 Annual	Santa Clara (SF)	LHD2	Dsl	68	40	RUNEX	30 CH4	0.003521406	20842	0%
2023 Annual	Santa Clara (SF)	LHD2	Dsl	68	40	RUNEX	35 CH4	0.002936455	11398	0%
2023 Annual	Santa Clara (SF)	LHD2	Dsl	68	40	RUNEX	40 CH4	0.002557098	5943	0%
2023 Annual	Santa Clara (SF)	LHD2	Dsl	68	40	RUNEX	45 CH4	0.002317651	5907	0%
2023 Annual	Santa Clara (SF)	LHD2	Dsl	68	40	RUNEX	50 CH4	0.002184654	25831	0%
2023 Annual	Santa Clara (SF)	LHD2	Dsl	68	40	RUNEX	55 CH4	0.002143819	14948	0%
2023 Annual	Santa Clara (SF)	LHD2	Dsl	68	40	RUNEX	60 CH4	0.00223425	0	0%
2023 Annual	Santa Clara (SF)	LHD2	Dsl	68	40	RUNEX	65 CH4	0.002458969	0	0%
2023 Annual	Santa Clara (SF)	LHD2	Dsl	68	40	RUNEX	70 CH4	0.002615648	0	0%
2023 Annual	Santa Clara (SF)	LHD2	Dsl	68	40	RUNEX	75 CH4	0.002615648	0	0%
2023 Annual	Santa Clara (SF)	LHD2	Dsl	68	40	RUNEX	80 CH4	0.002615648	0	0%

2023 Annual	Santa Clara (SF)	LHD2	Dsl	68	40	RUNEX	85 CH4	0.002615648	0	0%
2023 Annual	Santa Clara (SF)	LHD2	Dsl	68	40	RUNEX	90 CH4	0.002615648	0	0%
2023 Annual	Santa Clara (SF)	LHD2	Gas	68	40	RUNEX	5 CH4	0.024533287	2427	0%
2023 Annual	Santa Clara (SF)	LHD2	Gas	68	40	RUNEX	10 CH4	0.016597208	5309	0%
2023 Annual	Santa Clara (SF)	LHD2	Gas	68	40	RUNEX	15 CH4	0.011758708	13522	0%
2023 Annual	Santa Clara (SF)	LHD2	Gas	68	40	RUNEX	20 CH4	0.0087231	15286	0%
2023 Annual	Santa Clara (SF)	LHD2	Gas	68	40	RUNEX	25 CH4	0.006774983	12035	0%
2023 Annual	Santa Clara (SF)	LHD2	Gas	68	40	RUNEX	30 CH4	0.005508209	10201	0%
2023 Annual	Santa Clara (SF)	LHD2	Gas	68	40	RUNEX	35 CH4	0.00468728	3949	0%
2023 Annual	Santa Clara (SF)	LHD2	Gas	68	40	RUNEX	40 CH4	0.004174302	1060	0%
2023 Annual	Santa Clara (SF)	LHD2	Gas	68	40	RUNEX	45 CH4	0.003889987	1176	0%
2023 Annual	Santa Clara (SF)	LHD2	Gas	68	40	RUNEX	50 CH4	0.003792878	10324	0%
2023 Annual	Santa Clara (SF)	LHD2	Gas	68	40	RUNEX	55 CH4	0.003869078	2657	0%
2023 Annual	Santa Clara (SF)	LHD2	Gas	68	40	RUNEX	60 CH4	0.004128883	0	0%
2023 Annual	Santa Clara (SF)	LHD2	Gas	68	40	RUNEX	65 CH4	0.00460917	0	0%
2023 Annual	Santa Clara (SF)	LHD2	Gas	68	40	RUNEX	70 CH4	0.004952782	0	0%
2023 Annual	Santa Clara (SF)	LHD2	Gas	68	40	RUNEX	75 CH4	0.004952782	0	0%
2023 Annual	Santa Clara (SF)	LHD2	Gas	68	40	RUNEX	80 CH4	0.004952782	0	0%
2023 Annual	Santa Clara (SF)	LHD2	Gas	68	40	RUNEX	85 CH4	0.004952782	0	0%
2023 Annual	Santa Clara (SF)	LHD2	Gas	68	40	RUNEX	90 CH4	0.004952782	0	0%
2023 Annual	Santa Clara (SF)	MCY	Gas	68	40	RUNEX	5 CH4	1.499035177	334	0%
2023 Annual	Santa Clara (SF)	MCY	Gas	68	40	RUNEX	10 CH4	1.033397418	231	0%
2023 Annual	Santa Clara (SF)	MCY	Gas	68	40	RUNEX	15 CH4	0.745689273	984	0%
2023 Annual	Santa Clara (SF)	MCY	Gas	68	40	RUNEX	20 CH4	0.563007899	3602	0%
2023 Annual	Santa Clara (SF)	MCY	Gas	68	40	RUNEX	25 CH4	0.4446057	8695	0%
2023 Annual	Santa Clara (SF)	MCY	Gas	68	40	RUNEX	30 CH4	0.36710026	70141	0%
2023 Annual	Santa Clara (SF)	MCY	Gas	68	40	RUNEX	35 CH4	0.316812476	15279	0%
2023 Annual	Santa Clara (SF)	MCY	Gas	68	40	RUNEX	40 CH4	0.285692501	15725	0%
2023 Annual	Santa Clara (SF)	MCY	Gas	68	40	RUNEX	45 CH4	0.269128996	29971	0%
2023 Annual	Santa Clara (SF)	MCY	Gas	68	40	RUNEX	50 CH4	0.264783002	10373	0%
2023 Annual	Santa Clara (SF)	MCY	Gas	68	40	RUNEX	55 CH4	0.27202415	19985	0%
2023 Annual	Santa Clara (SF)	MCY	Gas	68	40	RUNEX	60 CH4	0.291775874	47329	0%
2023 Annual	Santa Clara (SF)	MCY	Gas	68	40	RUNEX	65 CH4	0.326717563	19822	0%
2023 Annual	Santa Clara (SF)	MCY	Gas	68	40	RUNEX	70 CH4	0.351340477	0	0%
2023 Annual	Santa Clara (SF)	MCY	Gas	68	40	RUNEX	75 CH4	0.351340477	0	0%
2023 Annual	Santa Clara (SF)	MCY	Gas	68	40	RUNEX	80 CH4	0.351340477	0	0%
2023 Annual	Santa Clara (SF)	MCY	Gas	68	40	RUNEX	85 CH4	0.351340477	0	0%
2023 Annual	Santa Clara (SF)	MCY	Gas	68	40	RUNEX	90 CH4	0.351340477	0	0%
2023 Annual	Santa Clara (SF)	MDV	Dsl	68	40	RUNEX	5 CH4	0.008249066	196	0%
2023 Annual	Santa Clara (SF)	MDV	Dsl	68	40	RUNEX	10 CH4	0.00616258	136	0%
2023 Annual	Santa Clara (SF)	MDV	Dsl	68	40	RUNEX	15 CH4	0.003049287	577	0%
2023 Annual	Santa Clara (SF)	MDV	Dsl	68	40	RUNEX	20 CH4	0.001231058	2113	0%
2023 Annual	Santa Clara (SF)	MDV	Dsl	68	40	RUNEX	25 CH4	0.000757311	5100	0%
2023 Annual	Santa Clara (SF)	MDV	Dsl	68	40	RUNEX	30 CH4	0.000577934	41142	0%
2023 Annual	Santa Clara (SF)	MDV	Dsl	68	40	RUNEX	35 CH4	0.000464389	8962	0%
2023 Annual	Santa Clara (SF)	MDV	Dsl	68	40	RUNEX	40 CH4	0.000387661	9224	0%
2023 Annual	Santa Clara (SF)	MDV	Dsl	68	40	RUNEX	45 CH4	0.000333623	17580	0%
2023 Annual	Santa Clara (SF)	MDV	Dsl	68	40	RUNEX	50 CH4	0.000294749	6085	0%
2023 Annual	Santa Clara (SF)	MDV	Dsl	68	40	RUNEX	55 CH4	0.000266852	11722	0%
2023 Annual	Santa Clara (SF)	MDV	Dsl	68	40	RUNEX	60 CH4	0.000258989	27761	0%
2023 Annual	Santa Clara (SF)	MDV	Dsl	68	40	RUNEX	65 CH4	0.000266985	11627	0%
2023 Annual	Santa Clara (SF)	MDV	Dsl	68	40	RUNEX	70 CH4	0.00027256	0	0%
2023 Annual	Santa Clara (SF)	MDV	Dsl	68	40	RUNEX	75 CH4	0.00027256	0	0%
2023 Annual	Santa Clara (SF)	MDV	Dsl	68	40	RUNEX	80 CH4	0.00027256	0	0%
2023 Annual	Santa Clara (SF)	MDV	Dsl	68	40	RUNEX	85 CH4	0.00027256	0	0%
2023 Annual	Santa Clara (SF)	MDV	Dsl	68	40	RUNEX	90 CH4	0.00027256	0	0%
2023 Annual	Santa Clara (SF)	MDV	Gas	68	40	RUNEX	5 CH4	0.025049649	6742	0%
2023 Annual	Santa Clara (SF)	MDV	Gas	68	40	RUNEX	10 CH4	0.016974771	4670	0%
2023 Annual	Santa Clara (SF)	MDV	Gas	68	40	RUNEX	15 CH4	0.01203979	19874	0%
2023 Annual	Santa Clara (SF)	MDV	Gas	68	40	RUNEX	20 CH4	0.008934414	72741	0%
2023 Annual	Santa Clara (SF)	MDV	Gas	68	40	RUNEX	25 CH4	0.006933851	175567	0%
2023 Annual	Santa Clara (SF)	MDV	Gas	68	40	RUNEX	30 CH4	0.005625982	1416312	3%
2023 Annual	Santa Clara (SF)	MDV	Gas	68	40	RUNEX	35 CH4	0.004771191	308516	1%
2023 Annual	Santa Clara (SF)	MDV	Gas	68	40	RUNEX	40 CH4	0.004228515	317523	1%
2023 Annual	Santa Clara (SF)	MDV	Gas	68	40	RUNEX	45 CH4	0.00391611	605186	1%
2023 Annual	Santa Clara (SF)	MDV	Gas	68	40	RUNEX	50 CH4	0.003790078	209461	0%
2023 Annual	Santa Clara (SF)	MDV	Gas	68	40	RUNEX	55 CH4	0.003833816	403535	1%
2023 Annual	Santa Clara (SF)	MDV	Gas	68	40	RUNEX	60 CH4	0.004054216	955686	2%
2023 Annual	Santa Clara (SF)	MDV	Gas	68	40	RUNEX	65 CH4	0.004483433	400251	1%
2023 Annual	Santa Clara (SF)	MDV	Gas	68	40	RUNEX	70 CH4	0.004795084	0	0%
2023 Annual	Santa Clara (SF)	MDV	Gas	68	40	RUNEX	75 CH4	0.004795084	0	0%
2023 Annual	Santa Clara (SF)	MDV	Gas	68	40	RUNEX	80 CH4	0.004795084	0	0%

2023 Annual	Santa Clara (SF)	MDV	Gas	68	40	RUNEX	85 CH4	0.004795084	0	0%
2023 Annual	Santa Clara (SF)	MDV	Gas	68	40	RUNEX	90 CH4	0.004795084	0	0%
2023 Annual	Santa Clara (SF)	MH	Dsl	68	40	RUNEX	5 CH4	0.042801323	76	0%
2023 Annual	Santa Clara (SF)	MH	Dsl	68	40	RUNEX	10 CH4	0.032230375	392	0%
2023 Annual	Santa Clara (SF)	MH	Dsl	68	40	RUNEX	15 CH4	0.016165025	477	0%
2023 Annual	Santa Clara (SF)	MH	Dsl	68	40	RUNEX	20 CH4	0.006868403	530	0%
2023 Annual	Santa Clara (SF)	MH	Dsl	68	40	RUNEX	25 CH4	0.004593297	542	0%
2023 Annual	Santa Clara (SF)	MH	Dsl	68	40	RUNEX	30 CH4	0.003647945	657	0%
2023 Annual	Santa Clara (SF)	MH	Dsl	68	40	RUNEX	35 CH4	0.002975487	859	0%
2023 Annual	Santa Clara (SF)	MH	Dsl	68	40	RUNEX	40 CH4	0.002499912	1097	0%
2023 Annual	Santa Clara (SF)	MH	Dsl	68	40	RUNEX	45 CH4	0.002184438	856	0%
2023 Annual	Santa Clara (SF)	MH	Dsl	68	40	RUNEX	50 CH4	0.002009303	1011	0%
2023 Annual	Santa Clara (SF)	MH	Dsl	68	40	RUNEX	55 CH4	0.001963027	1406	0%
2023 Annual	Santa Clara (SF)	MH	Dsl	68	40	RUNEX	60 CH4	0.002069525	1757	0%
2023 Annual	Santa Clara (SF)	MH	Dsl	68	40	RUNEX	65 CH4	0.002315439	247	0%
2023 Annual	Santa Clara (SF)	MH	Dsl	68	40	RUNEX	70 CH4	0.002666197	0	0%
2023 Annual	Santa Clara (SF)	MH	Dsl	68	40	RUNEX	75 CH4	0.002666197	0	0%
2023 Annual	Santa Clara (SF)	MH	Dsl	68	40	RUNEX	80 CH4	0.002666197	0	0%
2023 Annual	Santa Clara (SF)	MH	Dsl	68	40	RUNEX	85 CH4	0.002666197	0	0%
2023 Annual	Santa Clara (SF)	MH	Dsl	68	40	RUNEX	90 CH4	0.002666197	0	0%
2023 Annual	Santa Clara (SF)	MH	Gas	68	40	RUNEX	5 CH4	0.053282928	221	0%
2023 Annual	Santa Clara (SF)	MH	Gas	68	40	RUNEX	10 CH4	0.036415756	1165	0%
2023 Annual	Santa Clara (SF)	MH	Gas	68	40	RUNEX	15 CH4	0.026056123	1314	0%
2023 Annual	Santa Clara (SF)	MH	Gas	68	40	RUNEX	20 CH4	0.019513543	1435	0%
2023 Annual	Santa Clara (SF)	MH	Gas	68	40	RUNEX	25 CH4	0.015291734	1621	0%
2023 Annual	Santa Clara (SF)	MH	Gas	68	40	RUNEX	30 CH4	0.012536111	1763	0%
2023 Annual	Santa Clara (SF)	MH	Gas	68	40	RUNEX	35 CH4	0.010748654	2529	0%
2023 Annual	Santa Clara (SF)	MH	Gas	68	40	RUNEX	40 CH4	0.009636881	3339	0%
2023 Annual	Santa Clara (SF)	MH	Gas	68	40	RUNEX	45 CH4	0.009032863	2916	0%
2023 Annual	Santa Clara (SF)	MH	Gas	68	40	RUNEX	50 CH4	0.008850094	2840	0%
2023 Annual	Santa Clara (SF)	MH	Gas	68	40	RUNEX	55 CH4	0.009062387	3197	0%
2023 Annual	Santa Clara (SF)	MH	Gas	68	40	RUNEX	60 CH4	0.009697517	3376	0%
2023 Annual	Santa Clara (SF)	MH	Gas	68	40	RUNEX	65 CH4	0.010843467	440	0%
2023 Annual	Santa Clara (SF)	MH	Gas	68	40	RUNEX	70 CH4	0.0116566	0	0%
2023 Annual	Santa Clara (SF)	MH	Gas	68	40	RUNEX	75 CH4	0.0116566	0	0%
2023 Annual	Santa Clara (SF)	MH	Gas	68	40	RUNEX	80 CH4	0.0116566	0	0%
2023 Annual	Santa Clara (SF)	MH	Gas	68	40	RUNEX	85 CH4	0.0116566	0	0%
2023 Annual	Santa Clara (SF)	MH	Gas	68	40	RUNEX	90 CH4	0.0116566	0	0%
2023 Annual	Santa Clara (SF)	Motor Coach	Dsl	68	40	RUNEX	5 CH4	0.00536419	105	0%
2023 Annual	Santa Clara (SF)	Motor Coach	Dsl	68	40	RUNEX	10 CH4	0.003366078	240	0%
2023 Annual	Santa Clara (SF)	Motor Coach	Dsl	68	40	RUNEX	15 CH4	0.001871353	224	0%
2023 Annual	Santa Clara (SF)	Motor Coach	Dsl	68	40	RUNEX	20 CH4	0.001271195	327	0%
2023 Annual	Santa Clara (SF)	Motor Coach	Dsl	68	40	RUNEX	25 CH4	0.000998288	288	0%
2023 Annual	Santa Clara (SF)	Motor Coach	Dsl	68	40	RUNEX	30 CH4	0.000807416	159	0%
2023 Annual	Santa Clara (SF)	Motor Coach	Dsl	68	40	RUNEX	35 CH4	0.000664957	213	0%
2023 Annual	Santa Clara (SF)	Motor Coach	Dsl	68	40	RUNEX	40 CH4	0.000570912	197	0%
2023 Annual	Santa Clara (SF)	Motor Coach	Dsl	68	40	RUNEX	45 CH4	0.000525281	262	0%
2023 Annual	Santa Clara (SF)	Motor Coach	Dsl	68	40	RUNEX	50 CH4	0.000528063	386	0%
2023 Annual	Santa Clara (SF)	Motor Coach	Dsl	68	40	RUNEX	55 CH4	0.000579259	927	0%
2023 Annual	Santa Clara (SF)	Motor Coach	Dsl	68	40	RUNEX	60 CH4	0.000678868	3382	0%
2023 Annual	Santa Clara (SF)	Motor Coach	Dsl	68	40	RUNEX	65 CH4	0.000826892	6197	0%
2023 Annual	Santa Clara (SF)	Motor Coach	Dsl	68	40	RUNEX	70 CH4	0.000989991	76	0%
2023 Annual	Santa Clara (SF)	Motor Coach	Dsl	68	40	RUNEX	75 CH4	0.001193289	0	0%
2023 Annual	Santa Clara (SF)	Motor Coach	Dsl	68	40	RUNEX	80 CH4	0.001436783	0	0%
2023 Annual	Santa Clara (SF)	Motor Coach	Dsl	68	40	RUNEX	85 CH4	0.001720476	0	0%
2023 Annual	Santa Clara (SF)	Motor Coach	Dsl	68	40	RUNEX	90 CH4	0.002044365	0	0%
2023 Annual	Santa Clara (SF)	OBUS	Gas	68	40	RUNEX	5 CH4	0.056924407	200	0%
2023 Annual	Santa Clara (SF)	OBUS	Gas	68	40	RUNEX	10 CH4	0.038215011	1055	0%
2023 Annual	Santa Clara (SF)	OBUS	Gas	68	40	RUNEX	15 CH4	0.026869035	1190	0%
2023 Annual	Santa Clara (SF)	OBUS	Gas	68	40	RUNEX	20 CH4	0.01978523	1300	0%
2023 Annual	Santa Clara (SF)	OBUS	Gas	68	40	RUNEX	25 CH4	0.015257632	1469	0%
2023 Annual	Santa Clara (SF)	OBUS	Gas	68	40	RUNEX	30 CH4	0.01232184	1597	0%
2023 Annual	Santa Clara (SF)	OBUS	Gas	68	40	RUNEX	35 CH4	0.010420657	2291	0%
2023 Annual	Santa Clara (SF)	OBUS	Gas	68	40	RUNEX	40 CH4	0.009228522	3025	0%
2023 Annual	Santa Clara (SF)	OBUS	Gas	68	40	RUNEX	45 CH4	0.008558038	2642	0%
2023 Annual	Santa Clara (SF)	OBUS	Gas	68	40	RUNEX	50 CH4	0.008310189	2573	0%
2023 Annual	Santa Clara (SF)	OBUS	Gas	68	40	RUNEX	55 CH4	0.008449525	2896	0%
2023 Annual	Santa Clara (SF)	OBUS	Gas	68	40	RUNEX	60 CH4	0.008995603	3059	0%
2023 Annual	Santa Clara (SF)	OBUS	Gas	68	40	RUNEX	65 CH4	0.010027674	399	0%
2023 Annual	Santa Clara (SF)	OBUS	Gas	68	40	RUNEX	70 CH4	0.010771425	0	0%
2023 Annual	Santa Clara (SF)	OBUS	Gas	68	40	RUNEX	75 CH4	0.010771425	0	0%
2023 Annual	Santa Clara (SF)	OBUS	Gas	68	40	RUNEX	80 CH4	0.010771425	0	0%

2023 Annual	Santa Clara (SF)	OBUS	Gas	68	40	RUNEX	85 CH4	0.010771425	0	0%
2023 Annual	Santa Clara (SF)	OBUS	Gas	68	40	RUNEX	90 CH4	0.010771425	0	0%
2023 Annual	Santa Clara (SF)	SBUS	Dsl	68	40	RUNEX	5 CH4	0.03373787	428	0%
2023 Annual	Santa Clara (SF)	SBUS	Dsl	68	40	RUNEX	10 CH4	0.02557331	1053	0%
2023 Annual	Santa Clara (SF)	SBUS	Dsl	68	40	RUNEX	15 CH4	0.013742319	1352	0%
2023 Annual	Santa Clara (SF)	SBUS	Dsl	68	40	RUNEX	20 CH4	0.006978383	1785	0%
2023 Annual	Santa Clara (SF)	SBUS	Dsl	68	40	RUNEX	25 CH4	0.00506018	2295	0%
2023 Annual	Santa Clara (SF)	SBUS	Dsl	68	40	RUNEX	30 CH4	0.004001072	2677	0%
2023 Annual	Santa Clara (SF)	SBUS	Dsl	68	40	RUNEX	35 CH4	0.003193478	2282	0%
2023 Annual	Santa Clara (SF)	SBUS	Dsl	68	40	RUNEX	40 CH4	0.002614216	1672	0%
2023 Annual	Santa Clara (SF)	SBUS	Dsl	68	40	RUNEX	45 CH4	0.002245559	1407	0%
2023 Annual	Santa Clara (SF)	SBUS	Dsl	68	40	RUNEX	50 CH4	0.002073623	2401	0%
2023 Annual	Santa Clara (SF)	SBUS	Dsl	68	40	RUNEX	55 CH4	0.002087199	6082	0%
2023 Annual	Santa Clara (SF)	SBUS	Dsl	68	40	RUNEX	60 CH4	0.002177078	6001	0%
2023 Annual	Santa Clara (SF)	SBUS	Dsl	68	40	RUNEX	65 CH4	0.002210352	2254	0%
2023 Annual	Santa Clara (SF)	SBUS	Dsl	68	40	RUNEX	70 CH4	0.002234213	197	0%
2023 Annual	Santa Clara (SF)	SBUS	Dsl	68	40	RUNEX	75 CH4	0.002263954	11	0%
2023 Annual	Santa Clara (SF)	SBUS	Dsl	68	40	RUNEX	80 CH4	0.002299577	0	0%
2023 Annual	Santa Clara (SF)	SBUS	Dsl	68	40	RUNEX	85 CH4	0.002341079	0	0%
2023 Annual	Santa Clara (SF)	SBUS	Dsl	68	40	RUNEX	90 CH4	0.002388463	0	0%
2023 Annual	Santa Clara (SF)	SBUS	Gas	68	40	RUNEX	5 CH4	0.051074693	119	0%
2023 Annual	Santa Clara (SF)	SBUS	Gas	68	40	RUNEX	10 CH4	0.034219786	415	0%
2023 Annual	Santa Clara (SF)	SBUS	Gas	68	40	RUNEX	15 CH4	0.024012247	831	0%
2023 Annual	Santa Clara (SF)	SBUS	Gas	68	40	RUNEX	20 CH4	0.017647094	1128	0%
2023 Annual	Santa Clara (SF)	SBUS	Gas	68	40	RUNEX	25 CH4	0.013583059	1780	0%
2023 Annual	Santa Clara (SF)	SBUS	Gas	68	40	RUNEX	30 CH4	0.010949764	2136	0%
2023 Annual	Santa Clara (SF)	SBUS	Gas	68	40	RUNEX	35 CH4	0.009244785	2192	0%
2023 Annual	Santa Clara (SF)	SBUS	Gas	68	40	RUNEX	40 CH4	0.008174725	1480	0%
2023 Annual	Santa Clara (SF)	SBUS	Gas	68	40	RUNEX	45 CH4	0.007570653	710	0%
2023 Annual	Santa Clara (SF)	SBUS	Gas	68	40	RUNEX	50 CH4	0.007343075	356	0%
2023 Annual	Santa Clara (SF)	SBUS	Gas	68	40	RUNEX	55 CH4	0.007459449	529	0%
2023 Annual	Santa Clara (SF)	SBUS	Gas	68	40	RUNEX	60 CH4	0.00793632	295	0%
2023 Annual	Santa Clara (SF)	SBUS	Gas	68	40	RUNEX	65 CH4	0.008843337	0	0%
2023 Annual	Santa Clara (SF)	SBUS	Gas	68	40	RUNEX	70 CH4	0.009498309	0	0%
2023 Annual	Santa Clara (SF)	SBUS	Gas	68	40	RUNEX	75 CH4	0.009498309	0	0%
2023 Annual	Santa Clara (SF)	SBUS	Gas	68	40	RUNEX	80 CH4	0.009498309	0	0%
2023 Annual	Santa Clara (SF)	SBUS	Gas	68	40	RUNEX	85 CH4	0.009498309	0	0%
2023 Annual	Santa Clara (SF)	SBUS	Gas	68	40	RUNEX	90 CH4	0.009498309	0	0%
2023 Annual	Santa Clara (SF)	T6 Ag	Dsl	68	40	RUNEX	5 CH4	0.003066472	0	0%
2023 Annual	Santa Clara (SF)	T6 Ag	Dsl	68	40	RUNEX	10 CH4	0.00192424	0	0%
2023 Annual	Santa Clara (SF)	T6 Ag	Dsl	68	40	RUNEX	15 CH4	0.00106977	0	0%
2023 Annual	Santa Clara (SF)	T6 Ag	Dsl	68	40	RUNEX	20 CH4	0.000726686	0	0%
2023 Annual	Santa Clara (SF)	T6 Ag	Dsl	68	40	RUNEX	25 CH4	0.000570678	0	0%
2023 Annual	Santa Clara (SF)	T6 Ag	Dsl	68	40	RUNEX	30 CH4	0.000461564	0	0%
2023 Annual	Santa Clara (SF)	T6 Ag	Dsl	68	40	RUNEX	35 CH4	0.000380127	0	0%
2023 Annual	Santa Clara (SF)	T6 Ag	Dsl	68	40	RUNEX	40 CH4	0.000326366	0	0%
2023 Annual	Santa Clara (SF)	T6 Ag	Dsl	68	40	RUNEX	45 CH4	0.00030028	0	0%
2023 Annual	Santa Clara (SF)	T6 Ag	Dsl	68	40	RUNEX	50 CH4	0.000301871	0	0%
2023 Annual	Santa Clara (SF)	T6 Ag	Dsl	68	40	RUNEX	55 CH4	0.000331137	1	0%
2023 Annual	Santa Clara (SF)	T6 Ag	Dsl	68	40	RUNEX	60 CH4	0.000388079	6	0%
2023 Annual	Santa Clara (SF)	T6 Ag	Dsl	68	40	RUNEX	65 CH4	0.000472698	4	0%
2023 Annual	Santa Clara (SF)	T6 Ag	Dsl	68	40	RUNEX	70 CH4	0.000472844	0	0%
2023 Annual	Santa Clara (SF)	T6 Ag	Dsl	68	40	RUNEX	75 CH4	0.000473026	0	0%
2023 Annual	Santa Clara (SF)	T6 Ag	Dsl	68	40	RUNEX	80 CH4	0.000473244	0	0%
2023 Annual	Santa Clara (SF)	T6 Ag	Dsl	68	40	RUNEX	85 CH4	0.000473498	0	0%
2023 Annual	Santa Clara (SF)	T6 Ag	Dsl	68	40	RUNEX	90 CH4	0.000473787	0	0%
2023 Annual	Santa Clara (SF)	T6 CAIRP Heavy	Dsl	68	40	RUNEX	5 CH4	0.002231952	61	0%
2023 Annual	Santa Clara (SF)	T6 CAIRP Heavy	Dsl	68	40	RUNEX	10 CH4	0.00140057	139	0%
2023 Annual	Santa Clara (SF)	T6 CAIRP Heavy	Dsl	68	40	RUNEX	15 CH4	0.000778639	136	0%
2023 Annual	Santa Clara (SF)	T6 CAIRP Heavy	Dsl	68	40	RUNEX	20 CH4	0.000528923	176	0%
2023 Annual	Santa Clara (SF)	T6 CAIRP Heavy	Dsl	68	40	RUNEX	25 CH4	0.000415371	151	0%
2023 Annual	Santa Clara (SF)	T6 CAIRP Heavy	Dsl	68	40	RUNEX	30 CH4	0.000335953	96	0%
2023 Annual	Santa Clara (SF)	T6 CAIRP Heavy	Dsl	68	40	RUNEX	35 CH4	0.000276678	138	0%
2023 Annual	Santa Clara (SF)	T6 CAIRP Heavy	Dsl	68	40	RUNEX	40 CH4	0.000237547	135	0%
2023 Annual	Santa Clara (SF)	T6 CAIRP Heavy	Dsl	68	40	RUNEX	45 CH4	0.000218561	172	0%
2023 Annual	Santa Clara (SF)	T6 CAIRP Heavy	Dsl	68	40	RUNEX	50 CH4	0.000219718	230	0%
2023 Annual	Santa Clara (SF)	T6 CAIRP Heavy	Dsl	68	40	RUNEX	55 CH4	0.00024102	541	0%
2023 Annual	Santa Clara (SF)	T6 CAIRP Heavy	Dsl	68	40	RUNEX	60 CH4	0.000282466	1881	0%
2023 Annual	Santa Clara (SF)	T6 CAIRP Heavy	Dsl	68	40	RUNEX	65 CH4	0.000344056	3629	0%
2023 Annual	Santa Clara (SF)	T6 CAIRP Heavy	Dsl	68	40	RUNEX	70 CH4	0.000419729	43	0%
2023 Annual	Santa Clara (SF)	T6 CAIRP Heavy	Dsl	68	40	RUNEX	75 CH4	0.000514052	0	0%
2023 Annual	Santa Clara (SF)	T6 CAIRP Heavy	Dsl	68	40	RUNEX	80 CH4	0.000627026	0	0%



2023 Annual	Santa Clara (SF)	T6 CAIRP Heavy	Dsl	68	40	RUNEX	85 CH4	0.000758649	0	0%
2023 Annual	Santa Clara (SF)	T6 CAIRP Heavy	Dsl	68	40	RUNEX	90 CH4	0.000908923	0	0%
2023 Annual	Santa Clara (SF)	T6 CAIRP Small	Dsl	68	40	RUNEX	5 CH4	0.002251442	8	0%
2023 Annual	Santa Clara (SF)	T6 CAIRP Small	Dsl	68	40	RUNEX	10 CH4	0.001412801	19	0%
2023 Annual	Santa Clara (SF)	T6 CAIRP Small	Dsl	68	40	RUNEX	15 CH4	0.000785439	18	0%
2023 Annual	Santa Clara (SF)	T6 CAIRP Small	Dsl	68	40	RUNEX	20 CH4	0.000533542	23	0%
2023 Annual	Santa Clara (SF)	T6 CAIRP Small	Dsl	68	40	RUNEX	25 CH4	0.000418999	20	0%
2023 Annual	Santa Clara (SF)	T6 CAIRP Small	Dsl	68	40	RUNEX	30 CH4	0.000338886	13	0%
2023 Annual	Santa Clara (SF)	T6 CAIRP Small	Dsl	68	40	RUNEX	35 CH4	0.000279094	18	0%
2023 Annual	Santa Clara (SF)	T6 CAIRP Small	Dsl	68	40	RUNEX	40 CH4	0.000239622	18	0%
2023 Annual	Santa Clara (SF)	T6 CAIRP Small	Dsl	68	40	RUNEX	45 CH4	0.000220469	23	0%
2023 Annual	Santa Clara (SF)	T6 CAIRP Small	Dsl	68	40	RUNEX	50 CH4	0.000221637	31	0%
2023 Annual	Santa Clara (SF)	T6 CAIRP Small	Dsl	68	40	RUNEX	55 CH4	0.000243125	72	0%
2023 Annual	Santa Clara (SF)	T6 CAIRP Small	Dsl	68	40	RUNEX	60 CH4	0.000284933	251	0%
2023 Annual	Santa Clara (SF)	T6 CAIRP Small	Dsl	68	40	RUNEX	65 CH4	0.000347061	484	0%
2023 Annual	Santa Clara (SF)	T6 CAIRP Small	Dsl	68	40	RUNEX	70 CH4	0.000422982	6	0%
2023 Annual	Santa Clara (SF)	T6 CAIRP Small	Dsl	68	40	RUNEX	75 CH4	0.000517615	0	0%
2023 Annual	Santa Clara (SF)	T6 CAIRP Small	Dsl	68	40	RUNEX	80 CH4	0.00063096	0	0%
2023 Annual	Santa Clara (SF)	T6 CAIRP Small	Dsl	68	40	RUNEX	85 CH4	0.000763016	0	0%
2023 Annual	Santa Clara (SF)	T6 CAIRP Small	Dsl	68	40	RUNEX	90 CH4	0.000913783	0	0%
2023 Annual	Santa Clara (SF)	T6 Instate Construction Heavy	Dsl	68	40	RUNEX	5 CH4	0.004671737	2112	0%
2023 Annual	Santa Clara (SF)	T6 Instate Construction Heavy	Dsl	68	40	RUNEX	10 CH4	0.00326112	1561	0%
2023 Annual	Santa Clara (SF)	T6 Instate Construction Heavy	Dsl	68	40	RUNEX	15 CH4	0.001780585	409	0%
2023 Annual	Santa Clara (SF)	T6 Instate Construction Heavy	Dsl	68	40	RUNEX	20 CH4	0.001016674	355	0%
2023 Annual	Santa Clara (SF)	T6 Instate Construction Heavy	Dsl	68	40	RUNEX	25 CH4	0.000768278	472	0%
2023 Annual	Santa Clara (SF)	T6 Instate Construction Heavy	Dsl	68	40	RUNEX	30 CH4	0.000626612	543	0%
2023 Annual	Santa Clara (SF)	T6 Instate Construction Heavy	Dsl	68	40	RUNEX	35 CH4	0.0005187	685	0%
2023 Annual	Santa Clara (SF)	T6 Instate Construction Heavy	Dsl	68	40	RUNEX	40 CH4	0.000444257	817	0%
2023 Annual	Santa Clara (SF)	T6 Instate Construction Heavy	Dsl	68	40	RUNEX	45 CH4	0.000403039	984	0%
2023 Annual	Santa Clara (SF)	T6 Instate Construction Heavy	Dsl	68	40	RUNEX	50 CH4	0.000394825	1102	0%
2023 Annual	Santa Clara (SF)	T6 Instate Construction Heavy	Dsl	68	40	RUNEX	55 CH4	0.000419401	1341	0%
2023 Annual	Santa Clara (SF)	T6 Instate Construction Heavy	Dsl	68	40	RUNEX	60 CH4	0.00046858	4260	0%
2023 Annual	Santa Clara (SF)	T6 Instate Construction Heavy	Dsl	68	40	RUNEX	65 CH4	0.000533396	2501	0%
2023 Annual	Santa Clara (SF)	T6 Instate Construction Heavy	Dsl	68	40	RUNEX	70 CH4	0.000599056	361	0%
2023 Annual	Santa Clara (SF)	T6 Instate Construction Heavy	Dsl	68	40	RUNEX	75 CH4	0.000680899	219	0%
2023 Annual	Santa Clara (SF)	T6 Instate Construction Heavy	Dsl	68	40	RUNEX	80 CH4	0.000778924	0	0%
2023 Annual	Santa Clara (SF)	T6 Instate Construction Heavy	Dsl	68	40	RUNEX	85 CH4	0.000893132	0	0%
2023 Annual	Santa Clara (SF)	T6 Instate Construction Heavy	Dsl	68	40	RUNEX	90 CH4	0.001023522	0	0%
2023 Annual	Santa Clara (SF)	T6 Instate Construction Small	Dsl	68	40	RUNEX	5 CH4	0.00246991	4819	0%
2023 Annual	Santa Clara (SF)	T6 Instate Construction Small	Dsl	68	40	RUNEX	10 CH4	0.001560597	3560	0%
2023 Annual	Santa Clara (SF)	T6 Instate Construction Small	Dsl	68	40	RUNEX	15 CH4	0.000867444	932	0%
2023 Annual	Santa Clara (SF)	T6 Instate Construction Small	Dsl	68	40	RUNEX	20 CH4	0.000584448	811	0%
2023 Annual	Santa Clara (SF)	T6 Instate Construction Small	Dsl	68	40	RUNEX	25 CH4	0.000458029	1077	0%
2023 Annual	Santa Clara (SF)	T6 Instate Construction Small	Dsl	68	40	RUNEX	30 CH4	0.000370208	1239	0%
2023 Annual	Santa Clara (SF)	T6 Instate Construction Small	Dsl	68	40	RUNEX	35 CH4	0.000304615	1563	0%
2023 Annual	Santa Clara (SF)	T6 Instate Construction Small	Dsl	68	40	RUNEX	40 CH4	0.000261163	1864	0%
2023 Annual	Santa Clara (SF)	T6 Instate Construction Small	Dsl	68	40	RUNEX	45 CH4	0.000239787	2244	0%
2023 Annual	Santa Clara (SF)	T6 Instate Construction Small	Dsl	68	40	RUNEX	50 CH4	0.000240438	2513	0%
2023 Annual	Santa Clara (SF)	T6 Instate Construction Small	Dsl	68	40	RUNEX	55 CH4	0.00026308	3059	0%
2023 Annual	Santa Clara (SF)	T6 Instate Construction Small	Dsl	68	40	RUNEX	60 CH4	0.000307561	9719	0%
2023 Annual	Santa Clara (SF)	T6 Instate Construction Small	Dsl	68	40	RUNEX	65 CH4	0.000373598	5705	0%
2023 Annual	Santa Clara (SF)	T6 Instate Construction Small	Dsl	68	40	RUNEX	70 CH4	0.000447103	823	0%
2023 Annual	Santa Clara (SF)	T6 Instate Construction Small	Dsl	68	40	RUNEX	75 CH4	0.000538724	498	0%
2023 Annual	Santa Clara (SF)	T6 Instate Construction Small	Dsl	68	40	RUNEX	80 CH4	0.000648462	0	0%
2023 Annual	Santa Clara (SF)	T6 Instate Construction Small	Dsl	68	40	RUNEX	85 CH4	0.000776315	0	0%
2023 Annual	Santa Clara (SF)	T6 Instate Construction Small	Dsl	68	40	RUNEX	90 CH4	0.000922284	0	0%
2023 Annual	Santa Clara (SF)	T6 Instate Heavy	Dsl	68	40	RUNEX	5 CH4	0.002379139	2716	0%
2023 Annual	Santa Clara (SF)	T6 Instate Heavy	Dsl	68	40	RUNEX	10 CH4	0.001492932	6162	0%
2023 Annual	Santa Clara (SF)	T6 Instate Heavy	Dsl	68	40	RUNEX	15 CH4	0.000829987	7870	0%
2023 Annual	Santa Clara (SF)	T6 Instate Heavy	Dsl	68	40	RUNEX	20 CH4	0.000563804	10381	0%
2023 Annual	Santa Clara (SF)	T6 Instate Heavy	Dsl	68	40	RUNEX	25 CH4	0.000442763	14506	0%
2023 Annual	Santa Clara (SF)	T6 Instate Heavy	Dsl	68	40	RUNEX	30 CH4	0.000358107	18494	0%
2023 Annual	Santa Clara (SF)	T6 Instate Heavy	Dsl	68	40	RUNEX	35 CH4	0.000294924	15479	0%
2023 Annual	Santa Clara (SF)	T6 Instate Heavy	Dsl	68	40	RUNEX	40 CH4	0.000253212	9380	0%
2023 Annual	Santa Clara (SF)	T6 Instate Heavy	Dsl	68	40	RUNEX	45 CH4	0.000232974	6932	0%
2023 Annual	Santa Clara (SF)	T6 Instate Heavy	Dsl	68	40	RUNEX	50 CH4	0.000234208	14317	0%
2023 Annual	Santa Clara (SF)	T6 Instate Heavy	Dsl	68	40	RUNEX	55 CH4	0.000256914	35777	0%
2023 Annual	Santa Clara (SF)	T6 Instate Heavy	Dsl	68	40	RUNEX	60 CH4	0.000301094	24297	0%
2023 Annual	Santa Clara (SF)	T6 Instate Heavy	Dsl	68	40	RUNEX	65 CH4	0.000366745	9456	0%
2023 Annual	Santa Clara (SF)	T6 Instate Heavy	Dsl	68	40	RUNEX	70 CH4	0.000436332	807	0%
2023 Annual	Santa Clara (SF)	T6 Instate Heavy	Dsl	68	40	RUNEX	75 CH4	0.000523069	24	0%
2023 Annual	Santa Clara (SF)	T6 Instate Heavy	Dsl	68	40	RUNEX	80 CH4	0.000626957	0	0%

2023 Annual	Santa Clara (SF)	T6 Instate Heavy	Dsl	68	40	RUNEX	85 CH4	0.000747995	0	0%
2023 Annual	Santa Clara (SF)	T6 Instate Heavy	Dsl	68	40	RUNEX	90 CH4	0.000886183	0	0%
2023 Annual	Santa Clara (SF)	T6 Instate Small	Dsl	68	40	RUNEX	5 CH4	0.002418526	4525	0%
2023 Annual	Santa Clara (SF)	T6 Instate Small	Dsl	68	40	RUNEX	10 CH4	0.001517647	10264	0%
2023 Annual	Santa Clara (SF)	T6 Instate Small	Dsl	68	40	RUNEX	15 CH4	0.000843728	13110	0%
2023 Annual	Santa Clara (SF)	T6 Instate Small	Dsl	68	40	RUNEX	20 CH4	0.000573137	17293	0%
2023 Annual	Santa Clara (SF)	T6 Instate Small	Dsl	68	40	RUNEX	25 CH4	0.000450093	24165	0%
2023 Annual	Santa Clara (SF)	T6 Instate Small	Dsl	68	40	RUNEX	30 CH4	0.000364036	30808	0%
2023 Annual	Santa Clara (SF)	T6 Instate Small	Dsl	68	40	RUNEX	35 CH4	0.000299806	25785	0%
2023 Annual	Santa Clara (SF)	T6 Instate Small	Dsl	68	40	RUNEX	40 CH4	0.000257404	15626	0%
2023 Annual	Santa Clara (SF)	T6 Instate Small	Dsl	68	40	RUNEX	45 CH4	0.000236831	11548	0%
2023 Annual	Santa Clara (SF)	T6 Instate Small	Dsl	68	40	RUNEX	50 CH4	0.000238085	23849	0%
2023 Annual	Santa Clara (SF)	T6 Instate Small	Dsl	68	40	RUNEX	55 CH4	0.000261168	59597	0%
2023 Annual	Santa Clara (SF)	T6 Instate Small	Dsl	68	40	RUNEX	60 CH4	0.000306078	40474	0%
2023 Annual	Santa Clara (SF)	T6 Instate Small	Dsl	68	40	RUNEX	65 CH4	0.000372817	15752	0%
2023 Annual	Santa Clara (SF)	T6 Instate Small	Dsl	68	40	RUNEX	70 CH4	0.000446098	1344	0%
2023 Annual	Santa Clara (SF)	T6 Instate Small	Dsl	68	40	RUNEX	75 CH4	0.000537441	40	0%
2023 Annual	Santa Clara (SF)	T6 Instate Small	Dsl	68	40	RUNEX	80 CH4	0.000646845	0	0%
2023 Annual	Santa Clara (SF)	T6 Instate Small	Dsl	68	40	RUNEX	85 CH4	0.00077431	0	0%
2023 Annual	Santa Clara (SF)	T6 Instate Small	Dsl	68	40	RUNEX	90 CH4	0.000919835	0	0%
2023 Annual	Santa Clara (SF)	T6 OOS Heavy	Dsl	68	40	RUNEX	5 CH4	0.002233397	35	0%
2023 Annual	Santa Clara (SF)	T6 OOS Heavy	Dsl	68	40	RUNEX	10 CH4	0.001401477	78	0%
2023 Annual	Santa Clara (SF)	T6 OOS Heavy	Dsl	68	40	RUNEX	15 CH4	0.000779144	77	0%
2023 Annual	Santa Clara (SF)	T6 OOS Heavy	Dsl	68	40	RUNEX	20 CH4	0.000529266	99	0%
2023 Annual	Santa Clara (SF)	T6 OOS Heavy	Dsl	68	40	RUNEX	25 CH4	0.00041564	85	0%
2023 Annual	Santa Clara (SF)	T6 OOS Heavy	Dsl	68	40	RUNEX	30 CH4	0.00033617	54	0%
2023 Annual	Santa Clara (SF)	T6 OOS Heavy	Dsl	68	40	RUNEX	35 CH4	0.000276857	78	0%
2023 Annual	Santa Clara (SF)	T6 OOS Heavy	Dsl	68	40	RUNEX	40 CH4	0.000237701	76	0%
2023 Annual	Santa Clara (SF)	T6 OOS Heavy	Dsl	68	40	RUNEX	45 CH4	0.000218702	97	0%
2023 Annual	Santa Clara (SF)	T6 OOS Heavy	Dsl	68	40	RUNEX	50 CH4	0.000219861	130	0%
2023 Annual	Santa Clara (SF)	T6 OOS Heavy	Dsl	68	40	RUNEX	55 CH4	0.000241176	305	0%
2023 Annual	Santa Clara (SF)	T6 OOS Heavy	Dsl	68	40	RUNEX	60 CH4	0.000282649	1060	0%
2023 Annual	Santa Clara (SF)	T6 OOS Heavy	Dsl	68	40	RUNEX	65 CH4	0.000344279	2045	0%
2023 Annual	Santa Clara (SF)	T6 OOS Heavy	Dsl	68	40	RUNEX	70 CH4	0.000419994	24	0%
2023 Annual	Santa Clara (SF)	T6 OOS Heavy	Dsl	68	40	RUNEX	75 CH4	0.00051437	0	0%
2023 Annual	Santa Clara (SF)	T6 OOS Heavy	Dsl	68	40	RUNEX	80 CH4	0.000627407	0	0%
2023 Annual	Santa Clara (SF)	T6 OOS Heavy	Dsl	68	40	RUNEX	85 CH4	0.000759105	0	0%
2023 Annual	Santa Clara (SF)	T6 OOS Heavy	Dsl	68	40	RUNEX	90 CH4	0.000909463	0	0%
2023 Annual	Santa Clara (SF)	T6 OOS Small	Dsl	68	40	RUNEX	5 CH4	0.002257344	5	0%
2023 Annual	Santa Clara (SF)	T6 OOS Small	Dsl	68	40	RUNEX	10 CH4	0.001416504	10	0%
2023 Annual	Santa Clara (SF)	T6 OOS Small	Dsl	68	40	RUNEX	15 CH4	0.000787498	10	0%
2023 Annual	Santa Clara (SF)	T6 OOS Small	Dsl	68	40	RUNEX	20 CH4	0.000534941	13	0%
2023 Annual	Santa Clara (SF)	T6 OOS Small	Dsl	68	40	RUNEX	25 CH4	0.000420097	11	0%
2023 Annual	Santa Clara (SF)	T6 OOS Small	Dsl	68	40	RUNEX	30 CH4	0.000339775	7	0%
2023 Annual	Santa Clara (SF)	T6 OOS Small	Dsl	68	40	RUNEX	35 CH4	0.000279825	10	0%
2023 Annual	Santa Clara (SF)	T6 OOS Small	Dsl	68	40	RUNEX	40 CH4	0.00024025	10	0%
2023 Annual	Santa Clara (SF)	T6 OOS Small	Dsl	68	40	RUNEX	45 CH4	0.000221047	13	0%
2023 Annual	Santa Clara (SF)	T6 OOS Small	Dsl	68	40	RUNEX	50 CH4	0.000222218	17	0%
2023 Annual	Santa Clara (SF)	T6 OOS Small	Dsl	68	40	RUNEX	55 CH4	0.000243762	41	0%
2023 Annual	Santa Clara (SF)	T6 OOS Small	Dsl	68	40	RUNEX	60 CH4	0.00028568	141	0%
2023 Annual	Santa Clara (SF)	T6 OOS Small	Dsl	68	40	RUNEX	65 CH4	0.00034797	273	0%
2023 Annual	Santa Clara (SF)	T6 OOS Small	Dsl	68	40	RUNEX	70 CH4	0.000423772	3	0%
2023 Annual	Santa Clara (SF)	T6 OOS Small	Dsl	68	40	RUNEX	75 CH4	0.000518257	0	0%
2023 Annual	Santa Clara (SF)	T6 OOS Small	Dsl	68	40	RUNEX	80 CH4	0.000631423	0	0%
2023 Annual	Santa Clara (SF)	T6 OOS Small	Dsl	68	40	RUNEX	85 CH4	0.000763271	0	0%
2023 Annual	Santa Clara (SF)	T6 OOS Small	Dsl	68	40	RUNEX	90 CH4	0.000913802	0	0%
2023 Annual	Santa Clara (SF)	T6 Public	Dsl	68	40	RUNEX	5 CH4	0.015185012	499	0%
2023 Annual	Santa Clara (SF)	T6 Public	Dsl	68	40	RUNEX	10 CH4	0.011527206	950	0%
2023 Annual	Santa Clara (SF)	T6 Public	Dsl	68	40	RUNEX	15 CH4	0.006457632	760	0%
2023 Annual	Santa Clara (SF)	T6 Public	Dsl	68	40	RUNEX	20 CH4	0.003445153	567	0%
2023 Annual	Santa Clara (SF)	T6 Public	Dsl	68	40	RUNEX	25 CH4	0.002505416	804	0%
2023 Annual	Santa Clara (SF)	T6 Public	Dsl	68	40	RUNEX	30 CH4	0.002006936	1116	0%
2023 Annual	Santa Clara (SF)	T6 Public	Dsl	68	40	RUNEX	35 CH4	0.001626473	1424	0%
2023 Annual	Santa Clara (SF)	T6 Public	Dsl	68	40	RUNEX	40 CH4	0.001352743	1637	0%
2023 Annual	Santa Clara (SF)	T6 Public	Dsl	68	40	RUNEX	45 CH4	0.001177295	1516	0%
2023 Annual	Santa Clara (SF)	T6 Public	Dsl	68	40	RUNEX	50 CH4	0.00109374	1091	0%
2023 Annual	Santa Clara (SF)	T6 Public	Dsl	68	40	RUNEX	55 CH4	0.001097169	1284	0%
2023 Annual	Santa Clara (SF)	T6 Public	Dsl	68	40	RUNEX	60 CH4	0.001147856	1475	0%
2023 Annual	Santa Clara (SF)	T6 Public	Dsl	68	40	RUNEX	65 CH4	0.001192342	628	0%
2023 Annual	Santa Clara (SF)	T6 Public	Dsl	68	40	RUNEX	70 CH4	0.001231531	266	0%
2023 Annual	Santa Clara (SF)	T6 Public	Dsl	68	40	RUNEX	75 CH4	0.001280378	65	0%
2023 Annual	Santa Clara (SF)	T6 Public	Dsl	68	40	RUNEX	80 CH4	0.001338883	0	0%

2023 Annual	Santa Clara (SF)	T6 Public	Dsl	68	40	RUNEX	85 CH4	0.001407047	0	0%
2023 Annual	Santa Clara (SF)	T6 Public	Dsl	68	40	RUNEX	90 CH4	0.001484869	0	0%
2023 Annual	Santa Clara (SF)	T6 Utility	Dsl	68	40	RUNEX	5 CH4	0.001956505	34	0%
2023 Annual	Santa Clara (SF)	T6 Utility	Dsl	68	40	RUNEX	10 CH4	0.001227725	121	0%
2023 Annual	Santa Clara (SF)	T6 Utility	Dsl	68	40	RUNEX	15 CH4	0.000682547	128	0%
2023 Annual	Santa Clara (SF)	T6 Utility	Dsl	68	40	RUNEX	20 CH4	0.000463649	108	0%
2023 Annual	Santa Clara (SF)	T6 Utility	Dsl	68	40	RUNEX	25 CH4	0.00036411	129	0%
2023 Annual	Santa Clara (SF)	T6 Utility	Dsl	68	40	RUNEX	30 CH4	0.000294492	167	0%
2023 Annual	Santa Clara (SF)	T6 Utility	Dsl	68	40	RUNEX	35 CH4	0.000242533	204	0%
2023 Annual	Santa Clara (SF)	T6 Utility	Dsl	68	40	RUNEX	40 CH4	0.000208231	268	0%
2023 Annual	Santa Clara (SF)	T6 Utility	Dsl	68	40	RUNEX	45 CH4	0.000191588	276	0%
2023 Annual	Santa Clara (SF)	T6 Utility	Dsl	68	40	RUNEX	50 CH4	0.000192603	255	0%
2023 Annual	Santa Clara (SF)	T6 Utility	Dsl	68	40	RUNEX	55 CH4	0.000211276	397	0%
2023 Annual	Santa Clara (SF)	T6 Utility	Dsl	68	40	RUNEX	60 CH4	0.000247607	268	0%
2023 Annual	Santa Clara (SF)	T6 Utility	Dsl	68	40	RUNEX	65 CH4	0.000301596	2	0%
2023 Annual	Santa Clara (SF)	T6 Utility	Dsl	68	40	RUNEX	70 CH4	0.000355424	0	0%
2023 Annual	Santa Clara (SF)	T6 Utility	Dsl	68	40	RUNEX	75 CH4	0.000422519	0	0%
2023 Annual	Santa Clara (SF)	T6 Utility	Dsl	68	40	RUNEX	80 CH4	0.00050288	0	0%
2023 Annual	Santa Clara (SF)	T6 Utility	Dsl	68	40	RUNEX	85 CH4	0.000596508	0	0%
2023 Annual	Santa Clara (SF)	T6 Utility	Dsl	68	40	RUNEX	90 CH4	0.000703403	0	0%
2023 Annual	Santa Clara (SF)	T6TS	Gas	68	40	RUNEX	5 CH4	0.058373418	662	0%
2023 Annual	Santa Clara (SF)	T6TS	Gas	68	40	RUNEX	10 CH4	0.039235316	3487	0%
2023 Annual	Santa Clara (SF)	T6TS	Gas	68	40	RUNEX	15 CH4	0.027619721	3933	0%
2023 Annual	Santa Clara (SF)	T6TS	Gas	68	40	RUNEX	20 CH4	0.020362085	4298	0%
2023 Annual	Santa Clara (SF)	T6TS	Gas	68	40	RUNEX	25 CH4	0.015720427	4855	0%
2023 Annual	Santa Clara (SF)	T6TS	Gas	68	40	RUNEX	30 CH4	0.012709342	5277	0%
2023 Annual	Santa Clara (SF)	T6TS	Gas	68	40	RUNEX	35 CH4	0.010759183	7573	0%
2023 Annual	Santa Clara (SF)	T6TS	Gas	68	40	RUNEX	40 CH4	0.009537005	9998	0%
2023 Annual	Santa Clara (SF)	T6TS	Gas	68	40	RUNEX	45 CH4	0.00885119	8732	0%
2023 Annual	Santa Clara (SF)	T6TS	Gas	68	40	RUNEX	50 CH4	0.008600658	8504	0%
2023 Annual	Santa Clara (SF)	T6TS	Gas	68	40	RUNEX	55 CH4	0.008749572	9571	0%
2023 Annual	Santa Clara (SF)	T6TS	Gas	68	40	RUNEX	60 CH4	0.009318684	10109	0%
2023 Annual	Santa Clara (SF)	T6TS	Gas	68	40	RUNEX	65 CH4	0.010390279	1318	0%
2023 Annual	Santa Clara (SF)	T6TS	Gas	68	40	RUNEX	70 CH4	0.011161578	0	0%
2023 Annual	Santa Clara (SF)	T6TS	Gas	68	40	RUNEX	75 CH4	0.011161578	0	0%
2023 Annual	Santa Clara (SF)	T6TS	Gas	68	40	RUNEX	80 CH4	0.011161578	0	0%
2023 Annual	Santa Clara (SF)	T6TS	Gas	68	40	RUNEX	85 CH4	0.011161578	0	0%
2023 Annual	Santa Clara (SF)	T6TS	Gas	68	40	RUNEX	90 CH4	0.011161578	0	0%
2023 Annual	Santa Clara (SF)	T7 CAIRP	Dsl	68	40	RUNEX	5 CH4	0.006077672	1347	0%
2023 Annual	Santa Clara (SF)	T7 CAIRP	Dsl	68	40	RUNEX	10 CH4	0.003813795	3062	0%
2023 Annual	Santa Clara (SF)	T7 CAIRP	Dsl	68	40	RUNEX	15 CH4	0.002120258	2863	0%
2023 Annual	Santa Clara (SF)	T7 CAIRP	Dsl	68	40	RUNEX	20 CH4	0.001440275	4183	0%
2023 Annual	Santa Clara (SF)	T7 CAIRP	Dsl	68	40	RUNEX	25 CH4	0.001131069	3679	0%
2023 Annual	Santa Clara (SF)	T7 CAIRP	Dsl	68	40	RUNEX	30 CH4	0.000914809	2034	0%
2023 Annual	Santa Clara (SF)	T7 CAIRP	Dsl	68	40	RUNEX	35 CH4	0.000753402	2719	0%
2023 Annual	Santa Clara (SF)	T7 CAIRP	Dsl	68	40	RUNEX	40 CH4	0.000646848	2517	0%
2023 Annual	Santa Clara (SF)	T7 CAIRP	Dsl	68	40	RUNEX	45 CH4	0.000595148	3353	0%
2023 Annual	Santa Clara (SF)	T7 CAIRP	Dsl	68	40	RUNEX	50 CH4	0.0005983	4935	0%
2023 Annual	Santa Clara (SF)	T7 CAIRP	Dsl	68	40	RUNEX	55 CH4	0.000656305	11847	0%
2023 Annual	Santa Clara (SF)	T7 CAIRP	Dsl	68	40	RUNEX	60 CH4	0.000769164	43229	0%
2023 Annual	Santa Clara (SF)	T7 CAIRP	Dsl	68	40	RUNEX	65 CH4	0.000936875	79201	0%
2023 Annual	Santa Clara (SF)	T7 CAIRP	Dsl	68	40	RUNEX	70 CH4	0.001136768	973	0%
2023 Annual	Santa Clara (SF)	T7 CAIRP	Dsl	68	40	RUNEX	75 CH4	0.001385926	0	0%
2023 Annual	Santa Clara (SF)	T7 CAIRP	Dsl	68	40	RUNEX	80 CH4	0.00168435	0	0%
2023 Annual	Santa Clara (SF)	T7 CAIRP	Dsl	68	40	RUNEX	85 CH4	0.002032038	0	0%
2023 Annual	Santa Clara (SF)	T7 CAIRP	Dsl	68	40	RUNEX	90 CH4	0.002428993	0	0%
2023 Annual	Santa Clara (SF)	T7 CAIRP Construction	Dsl	68	40	RUNEX	5 CH4	0.005994274	1545	0%
2023 Annual	Santa Clara (SF)	T7 CAIRP Construction	Dsl	68	40	RUNEX	10 CH4	0.003761462	1063	0%
2023 Annual	Santa Clara (SF)	T7 CAIRP Construction	Dsl	68	40	RUNEX	15 CH4	0.002091164	226	0%
2023 Annual	Santa Clara (SF)	T7 CAIRP Construction	Dsl	68	40	RUNEX	20 CH4	0.001420511	225	0%
2023 Annual	Santa Clara (SF)	T7 CAIRP Construction	Dsl	68	40	RUNEX	25 CH4	0.001115548	303	0%
2023 Annual	Santa Clara (SF)	T7 CAIRP Construction	Dsl	68	40	RUNEX	30 CH4	0.000902256	364	0%
2023 Annual	Santa Clara (SF)	T7 CAIRP Construction	Dsl	68	40	RUNEX	35 CH4	0.000743064	470	0%
2023 Annual	Santa Clara (SF)	T7 CAIRP Construction	Dsl	68	40	RUNEX	40 CH4	0.000637972	603	0%
2023 Annual	Santa Clara (SF)	T7 CAIRP Construction	Dsl	68	40	RUNEX	45 CH4	0.000586981	733	0%
2023 Annual	Santa Clara (SF)	T7 CAIRP Construction	Dsl	68	40	RUNEX	50 CH4	0.00059009	736	0%
2023 Annual	Santa Clara (SF)	T7 CAIRP Construction	Dsl	68	40	RUNEX	55 CH4	0.000647299	898	0%
2023 Annual	Santa Clara (SF)	T7 CAIRP Construction	Dsl	68	40	RUNEX	60 CH4	0.000758609	3298	0%
2023 Annual	Santa Clara (SF)	T7 CAIRP Construction	Dsl	68	40	RUNEX	65 CH4	0.000924019	1617	0%
2023 Annual	Santa Clara (SF)	T7 CAIRP Construction	Dsl	68	40	RUNEX	70 CH4	0.001122003	361	0%
2023 Annual	Santa Clara (SF)	T7 CAIRP Construction	Dsl	68	40	RUNEX	75 CH4	0.001368781	286	0%
2023 Annual	Santa Clara (SF)	T7 CAIRP Construction	Dsl	68	40	RUNEX	80 CH4	0.001664354	0	0%

2023 Annual	Santa Clara (SF)	T7 CAIRP Construction	Dsl	68	40 RUNEX	85 CH4	0.002008721	0	0%
2023 Annual	Santa Clara (SF)	T7 CAIRP Construction	Dsl	68	40 RUNEX	90 CH4	0.002401884	0	0%
2023 Annual	Santa Clara (SF)	T7 NNOOS	Dsl	68	40 RUNEX	5 CH4	0.005439386	1642	0%
2023 Annual	Santa Clara (SF)	T7 NNOOS	Dsl	68	40 RUNEX	10 CH4	0.003413265	3733	0%
2023 Annual	Santa Clara (SF)	T7 NNOOS	Dsl	68	40 RUNEX	15 CH4	0.001897586	3491	0%
2023 Annual	Santa Clara (SF)	T7 NNOOS	Dsl	68	40 RUNEX	20 CH4	0.001289015	5100	0%
2023 Annual	Santa Clara (SF)	T7 NNOOS	Dsl	68	40 RUNEX	25 CH4	0.001012282	4486	0%
2023 Annual	Santa Clara (SF)	T7 NNOOS	Dsl	68	40 RUNEX	30 CH4	0.000818734	2479	0%
2023 Annual	Santa Clara (SF)	T7 NNOOS	Dsl	68	40 RUNEX	35 CH4	0.000674279	3315	0%
2023 Annual	Santa Clara (SF)	T7 NNOOS	Dsl	68	40 RUNEX	40 CH4	0.000578915	3068	0%
2023 Annual	Santa Clara (SF)	T7 NNOOS	Dsl	68	40 RUNEX	45 CH4	0.000532644	4087	0%
2023 Annual	Santa Clara (SF)	T7 NNOOS	Dsl	68	40 RUNEX	50 CH4	0.000535466	6016	0%
2023 Annual	Santa Clara (SF)	T7 NNOOS	Dsl	68	40 RUNEX	55 CH4	0.000587379	14442	0%
2023 Annual	Santa Clara (SF)	T7 NNOOS	Dsl	68	40 RUNEX	60 CH4	0.000688385	52700	0%
2023 Annual	Santa Clara (SF)	T7 NNOOS	Dsl	68	40 RUNEX	65 CH4	0.000838483	96554	0%
2023 Annual	Santa Clara (SF)	T7 NNOOS	Dsl	68	40 RUNEX	70 CH4	0.001024735	1187	0%
2023 Annual	Santa Clara (SF)	T7 NNOOS	Dsl	68	40 RUNEX	75 CH4	0.00125689	0	0%
2023 Annual	Santa Clara (SF)	T7 NNOOS	Dsl	68	40 RUNEX	80 CH4	0.001534948	0	0%
2023 Annual	Santa Clara (SF)	T7 NNOOS	Dsl	68	40 RUNEX	85 CH4	0.00185891	0	0%
2023 Annual	Santa Clara (SF)	T7 NNOOS	Dsl	68	40 RUNEX	90 CH4	0.002228775	0	0%
2023 Annual	Santa Clara (SF)	T7 NOOS	Dsl	68	40 RUNEX	5 CH4	0.006082262	529	0%
2023 Annual	Santa Clara (SF)	T7 NOOS	Dsl	68	40 RUNEX	10 CH4	0.003816675	1203	0%
2023 Annual	Santa Clara (SF)	T7 NOOS	Dsl	68	40 RUNEX	15 CH4	0.002121859	1125	0%
2023 Annual	Santa Clara (SF)	T7 NOOS	Dsl	68	40 RUNEX	20 CH4	0.001441362	1644	0%
2023 Annual	Santa Clara (SF)	T7 NOOS	Dsl	68	40 RUNEX	25 CH4	0.001131923	1446	0%
2023 Annual	Santa Clara (SF)	T7 NOOS	Dsl	68	40 RUNEX	30 CH4	0.0009155	799	0%
2023 Annual	Santa Clara (SF)	T7 NOOS	Dsl	68	40 RUNEX	35 CH4	0.000753971	1068	0%
2023 Annual	Santa Clara (SF)	T7 NOOS	Dsl	68	40 RUNEX	40 CH4	0.000647337	989	0%
2023 Annual	Santa Clara (SF)	T7 NOOS	Dsl	68	40 RUNEX	45 CH4	0.000595597	1317	0%
2023 Annual	Santa Clara (SF)	T7 NOOS	Dsl	68	40 RUNEX	50 CH4	0.000598752	1939	0%
2023 Annual	Santa Clara (SF)	T7 NOOS	Dsl	68	40 RUNEX	55 CH4	0.000656801	4654	0%
2023 Annual	Santa Clara (SF)	T7 NOOS	Dsl	68	40 RUNEX	60 CH4	0.000769744	16984	0%
2023 Annual	Santa Clara (SF)	T7 NOOS	Dsl	68	40 RUNEX	65 CH4	0.000937583	31116	0%
2023 Annual	Santa Clara (SF)	T7 NOOS	Dsl	68	40 RUNEX	70 CH4	0.001137294	382	0%
2023 Annual	Santa Clara (SF)	T7 NOOS	Dsl	68	40 RUNEX	75 CH4	0.001386226	0	0%
2023 Annual	Santa Clara (SF)	T7 NOOS	Dsl	68	40 RUNEX	80 CH4	0.001684378	0	0%
2023 Annual	Santa Clara (SF)	T7 NOOS	Dsl	68	40 RUNEX	85 CH4	0.002031751	0	0%
2023 Annual	Santa Clara (SF)	T7 NOOS	Dsl	68	40 RUNEX	90 CH4	0.002428345	0	0%
2023 Annual	Santa Clara (SF)	T7 Other Port	Dsl	68	40 RUNEX	5 CH4	0.006037618	776	0%
2023 Annual	Santa Clara (SF)	T7 Other Port	Dsl	68	40 RUNEX	10 CH4	0.003788661	1411	0%
2023 Annual	Santa Clara (SF)	T7 Other Port	Dsl	68	40 RUNEX	15 CH4	0.002106285	1305	0%
2023 Annual	Santa Clara (SF)	T7 Other Port	Dsl	68	40 RUNEX	20 CH4	0.001430783	1009	0%
2023 Annual	Santa Clara (SF)	T7 Other Port	Dsl	68	40 RUNEX	25 CH4	0.001123615	1048	0%
2023 Annual	Santa Clara (SF)	T7 Other Port	Dsl	68	40 RUNEX	30 CH4	0.00090878	1299	0%
2023 Annual	Santa Clara (SF)	T7 Other Port	Dsl	68	40 RUNEX	35 CH4	0.000748437	1604	0%
2023 Annual	Santa Clara (SF)	T7 Other Port	Dsl	68	40 RUNEX	40 CH4	0.000642585	1990	0%
2023 Annual	Santa Clara (SF)	T7 Other Port	Dsl	68	40 RUNEX	45 CH4	0.000591225	2083	0%
2023 Annual	Santa Clara (SF)	T7 Other Port	Dsl	68	40 RUNEX	50 CH4	0.000594357	2117	0%
2023 Annual	Santa Clara (SF)	T7 Other Port	Dsl	68	40 RUNEX	55 CH4	0.00065198	1856	0%
2023 Annual	Santa Clara (SF)	T7 Other Port	Dsl	68	40 RUNEX	60 CH4	0.000764095	1225	0%
2023 Annual	Santa Clara (SF)	T7 Other Port	Dsl	68	40 RUNEX	65 CH4	0.000930701	482	0%
2023 Annual	Santa Clara (SF)	T7 Other Port	Dsl	68	40 RUNEX	70 CH4	0.00108409	11	0%
2023 Annual	Santa Clara (SF)	T7 Other Port	Dsl	68	40 RUNEX	75 CH4	0.001275283	0	0%
2023 Annual	Santa Clara (SF)	T7 Other Port	Dsl	68	40 RUNEX	80 CH4	0.001504281	0	0%
2023 Annual	Santa Clara (SF)	T7 Other Port	Dsl	68	40 RUNEX	85 CH4	0.001771082	0	0%
2023 Annual	Santa Clara (SF)	T7 Other Port	Dsl	68	40 RUNEX	90 CH4	0.002075688	0	0%
2023 Annual	Santa Clara (SF)	T7 POAK	Dsl	68	40 RUNEX	5 CH4	0.006243991	4419	0%
2023 Annual	Santa Clara (SF)	T7 POAK	Dsl	68	40 RUNEX	10 CH4	0.003918162	8037	0%
2023 Annual	Santa Clara (SF)	T7 POAK	Dsl	68	40 RUNEX	15 CH4	0.00217828	7431	0%
2023 Annual	Santa Clara (SF)	T7 POAK	Dsl	68	40 RUNEX	20 CH4	0.001479689	5746	0%
2023 Annual	Santa Clara (SF)	T7 POAK	Dsl	68	40 RUNEX	25 CH4	0.001162021	5971	0%
2023 Annual	Santa Clara (SF)	T7 POAK	Dsl	68	40 RUNEX	30 CH4	0.000939843	7400	0%
2023 Annual	Santa Clara (SF)	T7 POAK	Dsl	68	40 RUNEX	35 CH4	0.000774019	9135	0%
2023 Annual	Santa Clara (SF)	T7 POAK	Dsl	68	40 RUNEX	40 CH4	0.00066455	11335	0%
2023 Annual	Santa Clara (SF)	T7 POAK	Dsl	68	40 RUNEX	45 CH4	0.000611434	11863	0%
2023 Annual	Santa Clara (SF)	T7 POAK	Dsl	68	40 RUNEX	50 CH4	0.000614673	12057	0%
2023 Annual	Santa Clara (SF)	T7 POAK	Dsl	68	40 RUNEX	55 CH4	0.000674265	10573	0%
2023 Annual	Santa Clara (SF)	T7 POAK	Dsl	68	40 RUNEX	60 CH4	0.000790212	6978	0%
2023 Annual	Santa Clara (SF)	T7 POAK	Dsl	68	40 RUNEX	65 CH4	0.000962513	2745	0%
2023 Annual	Santa Clara (SF)	T7 POAK	Dsl	68	40 RUNEX	70 CH4	0.001106984	63	0%
2023 Annual	Santa Clara (SF)	T7 POAK	Dsl	68	40 RUNEX	75 CH4	0.00128706	0	0%
2023 Annual	Santa Clara (SF)	T7 POAK	Dsl	68	40 RUNEX	80 CH4	0.001502742	0	0%

2023 Annual	Santa Clara (SF)	T7 POAK	Dsl	68	40 RUNEX	85 CH4	0.001754031	0	0%
2023 Annual	Santa Clara (SF)	T7 POAK	Dsl	68	40 RUNEX	90 CH4	0.002040925	0	0%
2023 Annual	Santa Clara (SF)	T7 Public	Dsl	68	40 RUNEX	5 CH4	0.037305615	407	0%
2023 Annual	Santa Clara (SF)	T7 Public	Dsl	68	40 RUNEX	10 CH4	0.028864608	715	0%
2023 Annual	Santa Clara (SF)	T7 Public	Dsl	68	40 RUNEX	15 CH4	0.016679577	549	0%
2023 Annual	Santa Clara (SF)	T7 Public	Dsl	68	40 RUNEX	20 CH4	0.009151199	410	0%
2023 Annual	Santa Clara (SF)	T7 Public	Dsl	68	40 RUNEX	25 CH4	0.00661453	682	0%
2023 Annual	Santa Clara (SF)	T7 Public	Dsl	68	40 RUNEX	30 CH4	0.005244392	1108	0%
2023 Annual	Santa Clara (SF)	T7 Public	Dsl	68	40 RUNEX	35 CH4	0.004202294	1300	0%
2023 Annual	Santa Clara (SF)	T7 Public	Dsl	68	40 RUNEX	40 CH4	0.003445445	1358	0%
2023 Annual	Santa Clara (SF)	T7 Public	Dsl	68	40 RUNEX	45 CH4	0.002940145	1424	0%
2023 Annual	Santa Clara (SF)	T7 Public	Dsl	68	40 RUNEX	50 CH4	0.002658835	933	0%
2023 Annual	Santa Clara (SF)	T7 Public	Dsl	68	40 RUNEX	55 CH4	0.002577927	931	0%
2023 Annual	Santa Clara (SF)	T7 Public	Dsl	68	40 RUNEX	60 CH4	0.002641978	1091	0%
2023 Annual	Santa Clara (SF)	T7 Public	Dsl	68	40 RUNEX	65 CH4	0.002702426	488	0%
2023 Annual	Santa Clara (SF)	T7 Public	Dsl	68	40 RUNEX	70 CH4	0.002751499	266	0%
2023 Annual	Santa Clara (SF)	T7 Public	Dsl	68	40 RUNEX	75 CH4	0.002812668	78	0%
2023 Annual	Santa Clara (SF)	T7 Public	Dsl	68	40 RUNEX	80 CH4	0.00288593	0	0%
2023 Annual	Santa Clara (SF)	T7 Public	Dsl	68	40 RUNEX	85 CH4	0.002971288	0	0%
2023 Annual	Santa Clara (SF)	T7 Public	Dsl	68	40 RUNEX	90 CH4	0.00306874	0	0%
2023 Annual	Santa Clara (SF)	T7 Single	Dsl	68	40 RUNEX	5 CH4	0.004904712	948	0%
2023 Annual	Santa Clara (SF)	T7 Single	Dsl	68	40 RUNEX	10 CH4	0.003077752	2208	0%
2023 Annual	Santa Clara (SF)	T7 Single	Dsl	68	40 RUNEX	15 CH4	0.001711059	2746	0%
2023 Annual	Santa Clara (SF)	T7 Single	Dsl	68	40 RUNEX	20 CH4	0.001162309	3509	0%
2023 Annual	Santa Clara (SF)	T7 Single	Dsl	68	40 RUNEX	25 CH4	0.000912778	4823	0%
2023 Annual	Santa Clara (SF)	T7 Single	Dsl	68	40 RUNEX	30 CH4	0.000738255	6081	0%
2023 Annual	Santa Clara (SF)	T7 Single	Dsl	68	40 RUNEX	35 CH4	0.000607999	5241	0%
2023 Annual	Santa Clara (SF)	T7 Single	Dsl	68	40 RUNEX	40 CH4	0.00052201	3356	0%
2023 Annual	Santa Clara (SF)	T7 Single	Dsl	68	40 RUNEX	45 CH4	0.000480287	2690	0%
2023 Annual	Santa Clara (SF)	T7 Single	Dsl	68	40 RUNEX	50 CH4	0.000482831	6358	0%
2023 Annual	Santa Clara (SF)	T7 Single	Dsl	68	40 RUNEX	55 CH4	0.000529642	16367	0%
2023 Annual	Santa Clara (SF)	T7 Single	Dsl	68	40 RUNEX	60 CH4	0.000620719	11801	0%
2023 Annual	Santa Clara (SF)	T7 Single	Dsl	68	40 RUNEX	65 CH4	0.000756063	3774	0%
2023 Annual	Santa Clara (SF)	T7 Single	Dsl	68	40 RUNEX	70 CH4	0.000878006	329	0%
2023 Annual	Santa Clara (SF)	T7 Single	Dsl	68	40 RUNEX	75 CH4	0.001030004	12	0%
2023 Annual	Santa Clara (SF)	T7 Single	Dsl	68	40 RUNEX	80 CH4	0.001212056	0	0%
2023 Annual	Santa Clara (SF)	T7 Single	Dsl	68	40 RUNEX	85 CH4	0.001424161	0	0%
2023 Annual	Santa Clara (SF)	T7 Single	Dsl	68	40 RUNEX	90 CH4	0.001666321	0	0%
2023 Annual	Santa Clara (SF)	T7 Single Construction	Dsl	68	40 RUNEX	5 CH4	0.007532981	3834	0%
2023 Annual	Santa Clara (SF)	T7 Single Construction	Dsl	68	40 RUNEX	10 CH4	0.005144503	2637	0%
2023 Annual	Santa Clara (SF)	T7 Single Construction	Dsl	68	40 RUNEX	15 CH4	0.002816686	560	0%
2023 Annual	Santa Clara (SF)	T7 Single Construction	Dsl	68	40 RUNEX	20 CH4	0.001668237	558	0%
2023 Annual	Santa Clara (SF)	T7 Single Construction	Dsl	68	40 RUNEX	25 CH4	0.00126835	753	0%
2023 Annual	Santa Clara (SF)	T7 Single Construction	Dsl	68	40 RUNEX	30 CH4	0.001027294	904	0%
2023 Annual	Santa Clara (SF)	T7 Single Construction	Dsl	68	40 RUNEX	35 CH4	0.000845086	1167	0%
2023 Annual	Santa Clara (SF)	T7 Single Construction	Dsl	68	40 RUNEX	40 CH4	0.000721253	1496	0%
2023 Annual	Santa Clara (SF)	T7 Single Construction	Dsl	68	40 RUNEX	45 CH4	0.000655205	1818	0%
2023 Annual	Santa Clara (SF)	T7 Single Construction	Dsl	68	40 RUNEX	50 CH4	0.000646197	1827	0%
2023 Annual	Santa Clara (SF)	T7 Single Construction	Dsl	68	40 RUNEX	55 CH4	0.000693311	2229	0%
2023 Annual	Santa Clara (SF)	T7 Single Construction	Dsl	68	40 RUNEX	60 CH4	0.000787154	8181	0%
2023 Annual	Santa Clara (SF)	T7 Single Construction	Dsl	68	40 RUNEX	65 CH4	0.000914583	4011	0%
2023 Annual	Santa Clara (SF)	T7 Single Construction	Dsl	68	40 RUNEX	70 CH4	0.001043888	896	0%
2023 Annual	Santa Clara (SF)	T7 Single Construction	Dsl	68	40 RUNEX	75 CH4	0.001205061	711	0%
2023 Annual	Santa Clara (SF)	T7 Single Construction	Dsl	68	40 RUNEX	80 CH4	0.001398102	0	0%
2023 Annual	Santa Clara (SF)	T7 Single Construction	Dsl	68	40 RUNEX	85 CH4	0.001623012	0	0%
2023 Annual	Santa Clara (SF)	T7 Single Construction	Dsl	68	40 RUNEX	90 CH4	0.00187979	0	0%
2023 Annual	Santa Clara (SF)	T7 SWCV	Dsl	68	40 RUNEX	5 CH4	0.006862971	325	0%
2023 Annual	Santa Clara (SF)	T7 SWCV	Dsl	68	40 RUNEX	10 CH4	0.005007565	850	0%
2023 Annual	Santa Clara (SF)	T7 SWCV	Dsl	68	40 RUNEX	15 CH4	0.00320666	909	0%
2023 Annual	Santa Clara (SF)	T7 SWCV	Dsl	68	40 RUNEX	20 CH4	0.002243676	764	0%
2023 Annual	Santa Clara (SF)	T7 SWCV	Dsl	68	40 RUNEX	25 CH4	0.001683314	928	0%
2023 Annual	Santa Clara (SF)	T7 SWCV	Dsl	68	40 RUNEX	30 CH4	0.001285646	965	0%
2023 Annual	Santa Clara (SF)	T7 SWCV	Dsl	68	40 RUNEX	35 CH4	0.000990837	1051	0%
2023 Annual	Santa Clara (SF)	T7 SWCV	Dsl	68	40 RUNEX	40 CH4	0.000778973	1152	0%
2023 Annual	Santa Clara (SF)	T7 SWCV	Dsl	68	40 RUNEX	45 CH4	0.000635377	1275	0%
2023 Annual	Santa Clara (SF)	T7 SWCV	Dsl	68	40 RUNEX	50 CH4	0.000549232	1180	0%
2023 Annual	Santa Clara (SF)	T7 SWCV	Dsl	68	40 RUNEX	55 CH4	0.000512568	940	0%
2023 Annual	Santa Clara (SF)	T7 SWCV	Dsl	68	40 RUNEX	60 CH4	0.000541232	1359	0%
2023 Annual	Santa Clara (SF)	T7 SWCV	Dsl	68	40 RUNEX	65 CH4	0.000621634	260	0%
2023 Annual	Santa Clara (SF)	T7 SWCV	Dsl	68	40 RUNEX	70 CH4	0.000623731	0	0%
2023 Annual	Santa Clara (SF)	T7 SWCV	Dsl	68	40 RUNEX	75 CH4	0.000626345	0	0%
2023 Annual	Santa Clara (SF)	T7 SWCV	Dsl	68	40 RUNEX	80 CH4	0.000629476	0	0%

2023 Annual	Santa Clara (SF)	T7 SWCV	Dsl	68	40 RUNEX	85 CH4	0.000633125	0	0%
2023 Annual	Santa Clara (SF)	T7 SWCV	Dsl	68	40 RUNEX	90 CH4	0.000637289	0	0%
2023 Annual	Santa Clara (SF)	T7 SWCV	NG	68	40 RUNEX	5 CH4	14.51700187	399	0%
2023 Annual	Santa Clara (SF)	T7 SWCV	NG	68	40 RUNEX	10 CH4	11.63998922	1044	0%
2023 Annual	Santa Clara (SF)	T7 SWCV	NG	68	40 RUNEX	15 CH4	7.891898323	1117	0%
2023 Annual	Santa Clara (SF)	T7 SWCV	NG	68	40 RUNEX	20 CH4	5.500180333	939	0%
2023 Annual	Santa Clara (SF)	T7 SWCV	NG	68	40 RUNEX	25 CH4	4.03187537	1140	0%
2023 Annual	Santa Clara (SF)	T7 SWCV	NG	68	40 RUNEX	30 CH4	2.994612279	1186	0%
2023 Annual	Santa Clara (SF)	T7 SWCV	NG	68	40 RUNEX	35 CH4	2.227590951	1292	0%
2023 Annual	Santa Clara (SF)	T7 SWCV	NG	68	40 RUNEX	40 CH4	1.662255652	1416	0%
2023 Annual	Santa Clara (SF)	T7 SWCV	NG	68	40 RUNEX	45 CH4	1.248085741	1567	0%
2023 Annual	Santa Clara (SF)	T7 SWCV	NG	68	40 RUNEX	50 CH4	0.947851137	1450	0%
2023 Annual	Santa Clara (SF)	T7 SWCV	NG	68	40 RUNEX	55 CH4	0.734115952	1155	0%
2023 Annual	Santa Clara (SF)	T7 SWCV	NG	68	40 RUNEX	60 CH4	0.653141188	1670	0%
2023 Annual	Santa Clara (SF)	T7 SWCV	NG	68	40 RUNEX	65 CH4	0.653141188	319	0%
2023 Annual	Santa Clara (SF)	T7 SWCV	NG	68	40 RUNEX	70 CH4	0.653141188	0	0%
2023 Annual	Santa Clara (SF)	T7 SWCV	NG	68	40 RUNEX	75 CH4	0.653141188	0	0%
2023 Annual	Santa Clara (SF)	T7 SWCV	NG	68	40 RUNEX	80 CH4	0.653141188	0	0%
2023 Annual	Santa Clara (SF)	T7 SWCV	NG	68	40 RUNEX	85 CH4	0.653141188	0	0%
2023 Annual	Santa Clara (SF)	T7 SWCV	NG	68	40 RUNEX	90 CH4	0.653141188	0	0%
2023 Annual	Santa Clara (SF)	T7 Tractor	Dsl	68	40 RUNEX	5 CH4	0.005881054	1207	0%
2023 Annual	Santa Clara (SF)	T7 Tractor	Dsl	68	40 RUNEX	10 CH4	0.003690415	2578	0%
2023 Annual	Santa Clara (SF)	T7 Tractor	Dsl	68	40 RUNEX	15 CH4	0.002051666	3287	0%
2023 Annual	Santa Clara (SF)	T7 Tractor	Dsl	68	40 RUNEX	20 CH4	0.00139368	3756	0%
2023 Annual	Santa Clara (SF)	T7 Tractor	Dsl	68	40 RUNEX	25 CH4	0.001094478	4569	0%
2023 Annual	Santa Clara (SF)	T7 Tractor	Dsl	68	40 RUNEX	30 CH4	0.000885214	5771	0%
2023 Annual	Santa Clara (SF)	T7 Tractor	Dsl	68	40 RUNEX	35 CH4	0.000729029	6731	0%
2023 Annual	Santa Clara (SF)	T7 Tractor	Dsl	68	40 RUNEX	40 CH4	0.000625922	8429	0%
2023 Annual	Santa Clara (SF)	T7 Tractor	Dsl	68	40 RUNEX	45 CH4	0.000575894	9935	0%
2023 Annual	Santa Clara (SF)	T7 Tractor	Dsl	68	40 RUNEX	50 CH4	0.000578944	15094	0%
2023 Annual	Santa Clara (SF)	T7 Tractor	Dsl	68	40 RUNEX	55 CH4	0.000635073	33886	0%
2023 Annual	Santa Clara (SF)	T7 Tractor	Dsl	68	40 RUNEX	60 CH4	0.000744281	106687	0%
2023 Annual	Santa Clara (SF)	T7 Tractor	Dsl	68	40 RUNEX	65 CH4	0.000906566	73757	0%
2023 Annual	Santa Clara (SF)	T7 Tractor	Dsl	68	40 RUNEX	70 CH4	0.001078803	22278	0%
2023 Annual	Santa Clara (SF)	T7 Tractor	Dsl	68	40 RUNEX	75 CH4	0.001293488	1135	0%
2023 Annual	Santa Clara (SF)	T7 Tractor	Dsl	68	40 RUNEX	80 CH4	0.001550623	0	0%
2023 Annual	Santa Clara (SF)	T7 Tractor	Dsl	68	40 RUNEX	85 CH4	0.001850206	0	0%
2023 Annual	Santa Clara (SF)	T7 Tractor	Dsl	68	40 RUNEX	90 CH4	0.002192239	0	0%
2023 Annual	Santa Clara (SF)	T7 Tractor Construction	Dsl	68	40 RUNEX	5 CH4	0.007302728	3162	0%
2023 Annual	Santa Clara (SF)	T7 Tractor Construction	Dsl	68	40 RUNEX	10 CH4	0.004761392	2175	0%
2023 Annual	Santa Clara (SF)	T7 Tractor Construction	Dsl	68	40 RUNEX	15 CH4	0.002632616	462	0%
2023 Annual	Santa Clara (SF)	T7 Tractor Construction	Dsl	68	40 RUNEX	20 CH4	0.001695066	460	0%
2023 Annual	Santa Clara (SF)	T7 Tractor Construction	Dsl	68	40 RUNEX	25 CH4	0.001313673	621	0%
2023 Annual	Santa Clara (SF)	T7 Tractor Construction	Dsl	68	40 RUNEX	30 CH4	0.001058752	745	0%
2023 Annual	Santa Clara (SF)	T7 Tractor Construction	Dsl	68	40 RUNEX	35 CH4	0.000867758	963	0%
2023 Annual	Santa Clara (SF)	T7 Tractor Construction	Dsl	68	40 RUNEX	40 CH4	0.00073976	1234	0%
2023 Annual	Santa Clara (SF)	T7 Tractor Construction	Dsl	68	40 RUNEX	45 CH4	0.00067397	1500	0%
2023 Annual	Santa Clara (SF)	T7 Tractor Construction	Dsl	68	40 RUNEX	50 CH4	0.000669691	1507	0%
2023 Annual	Santa Clara (SF)	T7 Tractor Construction	Dsl	68	40 RUNEX	55 CH4	0.000726261	1839	0%
2023 Annual	Santa Clara (SF)	T7 Tractor Construction	Dsl	68	40 RUNEX	60 CH4	0.000840426	6749	0%
2023 Annual	Santa Clara (SF)	T7 Tractor Construction	Dsl	68	40 RUNEX	65 CH4	0.001006527	3309	0%
2023 Annual	Santa Clara (SF)	T7 Tractor Construction	Dsl	68	40 RUNEX	70 CH4	0.00116601	739	0%
2023 Annual	Santa Clara (SF)	T7 Tractor Construction	Dsl	68	40 RUNEX	75 CH4	0.001364799	586	0%
2023 Annual	Santa Clara (SF)	T7 Tractor Construction	Dsl	68	40 RUNEX	80 CH4	0.001602894	0	0%
2023 Annual	Santa Clara (SF)	T7 Tractor Construction	Dsl	68	40 RUNEX	85 CH4	0.001880295	0	0%
2023 Annual	Santa Clara (SF)	T7 Tractor Construction	Dsl	68	40 RUNEX	90 CH4	0.002197002	0	0%
2023 Annual	Santa Clara (SF)	T7 Utility	Dsl	68	40 RUNEX	5 CH4	0.004131177	18	0%
2023 Annual	Santa Clara (SF)	T7 Utility	Dsl	68	40 RUNEX	10 CH4	0.002592351	70	0%
2023 Annual	Santa Clara (SF)	T7 Utility	Dsl	68	40 RUNEX	15 CH4	0.001441203	69	0%
2023 Annual	Santa Clara (SF)	T7 Utility	Dsl	68	40 RUNEX	20 CH4	0.000978998	54	0%
2023 Annual	Santa Clara (SF)	T7 Utility	Dsl	68	40 RUNEX	25 CH4	0.000768822	66	0%
2023 Annual	Santa Clara (SF)	T7 Utility	Dsl	68	40 RUNEX	30 CH4	0.000621823	87	0%
2023 Annual	Santa Clara (SF)	T7 Utility	Dsl	68	40 RUNEX	35 CH4	0.00051211	108	0%
2023 Annual	Santa Clara (SF)	T7 Utility	Dsl	68	40 RUNEX	40 CH4	0.000439682	148	0%
2023 Annual	Santa Clara (SF)	T7 Utility	Dsl	68	40 RUNEX	45 CH4	0.00040454	148	0%
2023 Annual	Santa Clara (SF)	T7 Utility	Dsl	68	40 RUNEX	50 CH4	0.000406682	142	0%
2023 Annual	Santa Clara (SF)	T7 Utility	Dsl	68	40 RUNEX	55 CH4	0.00044611	222	0%
2023 Annual	Santa Clara (SF)	T7 Utility	Dsl	68	40 RUNEX	60 CH4	0.000522824	167	0%
2023 Annual	Santa Clara (SF)	T7 Utility	Dsl	68	40 RUNEX	65 CH4	0.000636822	2	0%
2023 Annual	Santa Clara (SF)	T7 Utility	Dsl	68	40 RUNEX	70 CH4	0.000697793	0	0%
2023 Annual	Santa Clara (SF)	T7 Utility	Dsl	68	40 RUNEX	75 CH4	0.000773791	0	0%
2023 Annual	Santa Clara (SF)	T7 Utility	Dsl	68	40 RUNEX	80 CH4	0.000864816	0	0%

2023 Annual	Santa Clara (SF)	T7 Utility	Dsl	68	40	RUNEX	85 CH4	0.000970868	0	0%
2023 Annual	Santa Clara (SF)	T7 Utility	Dsl	68	40	RUNEX	90 CH4	0.001091947	0	0%
2023 Annual	Santa Clara (SF)	T7IS	Gas	68	40	RUNEX	5 CH4	0.427972377	2	0%
2023 Annual	Santa Clara (SF)	T7IS	Gas	68	40	RUNEX	10 CH4	0.288034565	10	0%
2023 Annual	Santa Clara (SF)	T7IS	Gas	68	40	RUNEX	15 CH4	0.203024971	11	0%
2023 Annual	Santa Clara (SF)	T7IS	Gas	68	40	RUNEX	20 CH4	0.149865928	20	0%
2023 Annual	Santa Clara (SF)	T7IS	Gas	68	40	RUNEX	25 CH4	0.115844409	27	0%
2023 Annual	Santa Clara (SF)	T7IS	Gas	68	40	RUNEX	30 CH4	0.093763802	47	0%
2023 Annual	Santa Clara (SF)	T7IS	Gas	68	40	RUNEX	35 CH4	0.079461357	87	0%
2023 Annual	Santa Clara (SF)	T7IS	Gas	68	40	RUNEX	40 CH4	0.070503183	67	0%
2023 Annual	Santa Clara (SF)	T7IS	Gas	68	40	RUNEX	45 CH4	0.065488769	80	0%
2023 Annual	Santa Clara (SF)	T7IS	Gas	68	40	RUNEX	50 CH4	0.063680613	67	0%
2023 Annual	Santa Clara (SF)	T7IS	Gas	68	40	RUNEX	55 CH4	0.064820055	103	0%
2023 Annual	Santa Clara (SF)	T7IS	Gas	68	40	RUNEX	60 CH4	0.069064752	22	0%
2023 Annual	Santa Clara (SF)	T7IS	Gas	68	40	RUNEX	65 CH4	0.077026015	12	0%
2023 Annual	Santa Clara (SF)	T7IS	Gas	68	40	RUNEX	70 CH4	0.082748983	0	0%
2023 Annual	Santa Clara (SF)	T7IS	Gas	68	40	RUNEX	75 CH4	0.082748983	0	0%
2023 Annual	Santa Clara (SF)	T7IS	Gas	68	40	RUNEX	80 CH4	0.082748983	0	0%
2023 Annual	Santa Clara (SF)	T7IS	Gas	68	40	RUNEX	85 CH4	0.082748983	0	0%
2023 Annual	Santa Clara (SF)	T7IS	Gas	68	40	RUNEX	90 CH4	0.082748983	0	0%
2023 Annual	Santa Clara (SF)	UBUS	Dsl	68	40	RUNEX	5 CH4	0.17218656	689	0%
2023 Annual	Santa Clara (SF)	UBUS	Dsl	68	40	RUNEX	10 CH4	0.131967184	2291	0%
2023 Annual	Santa Clara (SF)	UBUS	Dsl	68	40	RUNEX	15 CH4	0.094386788	3887	0%
2023 Annual	Santa Clara (SF)	UBUS	Dsl	68	40	RUNEX	20 CH4	0.075689694	34010	0%
2023 Annual	Santa Clara (SF)	UBUS	Dsl	68	40	RUNEX	25 CH4	0.064184058	438	0%
2023 Annual	Santa Clara (SF)	UBUS	Dsl	68	40	RUNEX	30 CH4	0.056266257	434	0%
2023 Annual	Santa Clara (SF)	UBUS	Dsl	68	40	RUNEX	35 CH4	0.050425198	604	0%
2023 Annual	Santa Clara (SF)	UBUS	Dsl	68	40	RUNEX	40 CH4	0.045906315	839	0%
2023 Annual	Santa Clara (SF)	UBUS	Dsl	68	40	RUNEX	45 CH4	0.04228715	706	0%
2023 Annual	Santa Clara (SF)	UBUS	Dsl	68	40	RUNEX	50 CH4	0.039311152	625	0%
2023 Annual	Santa Clara (SF)	UBUS	Dsl	68	40	RUNEX	55 CH4	0.036812725	918	0%
2023 Annual	Santa Clara (SF)	UBUS	Dsl	68	40	RUNEX	60 CH4	0.03467979	1252	0%
2023 Annual	Santa Clara (SF)	UBUS	Dsl	68	40	RUNEX	65 CH4	0.032833538	181	0%
2023 Annual	Santa Clara (SF)	UBUS	Dsl	68	40	RUNEX	70 CH4	0.032833538	0	0%
2023 Annual	Santa Clara (SF)	UBUS	Dsl	68	40	RUNEX	75 CH4	0.032833538	0	0%
2023 Annual	Santa Clara (SF)	UBUS	Dsl	68	40	RUNEX	80 CH4	0.032833538	0	0%
2023 Annual	Santa Clara (SF)	UBUS	Dsl	68	40	RUNEX	85 CH4	0.032833538	0	0%
2023 Annual	Santa Clara (SF)	UBUS	Dsl	68	40	RUNEX	90 CH4	0.032833538	0	0%
2023 Annual	Santa Clara (SF)	UBUS	Gas	68	40	RUNEX	5 CH4	0.020675099	16	0%
2023 Annual	Santa Clara (SF)	UBUS	Gas	68	40	RUNEX	10 CH4	0.013852212	52	0%
2023 Annual	Santa Clara (SF)	UBUS	Gas	68	40	RUNEX	15 CH4	0.009720187	88	0%
2023 Annual	Santa Clara (SF)	UBUS	Gas	68	40	RUNEX	20 CH4	0.007143566	769	0%
2023 Annual	Santa Clara (SF)	UBUS	Gas	68	40	RUNEX	25 CH4	0.005498439	10	0%
2023 Annual	Santa Clara (SF)	UBUS	Gas	68	40	RUNEX	30 CH4	0.004432478	10	0%
2023 Annual	Santa Clara (SF)	UBUS	Gas	68	40	RUNEX	35 CH4	0.003742301	14	0%
2023 Annual	Santa Clara (SF)	UBUS	Gas	68	40	RUNEX	40 CH4	0.003309139	19	0%
2023 Annual	Santa Clara (SF)	UBUS	Gas	68	40	RUNEX	45 CH4	0.00306461	16	0%
2023 Annual	Santa Clara (SF)	UBUS	Gas	68	40	RUNEX	50 CH4	0.002972486	14	0%
2023 Annual	Santa Clara (SF)	UBUS	Gas	68	40	RUNEX	55 CH4	0.003019594	21	0%
2023 Annual	Santa Clara (SF)	UBUS	Gas	68	40	RUNEX	60 CH4	0.003212632	28	0%
2023 Annual	Santa Clara (SF)	UBUS	Gas	68	40	RUNEX	65 CH4	0.003579794	4	0%
2023 Annual	Santa Clara (SF)	UBUS	Gas	68	40	RUNEX	70 CH4	0.003844928	0	0%
2023 Annual	Santa Clara (SF)	UBUS	Gas	68	40	RUNEX	75 CH4	0.003844928	0	0%
2023 Annual	Santa Clara (SF)	UBUS	Gas	68	40	RUNEX	80 CH4	0.003844928	0	0%
2023 Annual	Santa Clara (SF)	UBUS	Gas	68	40	RUNEX	85 CH4	0.003844928	0	0%
2023 Annual	Santa Clara (SF)	UBUS	Gas	68	40	RUNEX	90 CH4	0.003844928	0	0%
2023 Annual	Santa Clara (SF)	UBUS	NG	68	40	RUNEX	5 CH4	9.817320876	176	0%
2023 Annual	Santa Clara (SF)	UBUS	NG	68	40	RUNEX	10 CH4	8.164895629	585	0%
2023 Annual	Santa Clara (SF)	UBUS	NG	68	40	RUNEX	15 CH4	7.198288825	992	0%
2023 Annual	Santa Clara (SF)	UBUS	NG	68	40	RUNEX	20 CH4	6.512470382	8678	0%
2023 Annual	Santa Clara (SF)	UBUS	NG	68	40	RUNEX	25 CH4	5.980508271	112	0%
2023 Annual	Santa Clara (SF)	UBUS	NG	68	40	RUNEX	30 CH4	5.545863577	111	0%
2023 Annual	Santa Clara (SF)	UBUS	NG	68	40	RUNEX	35 CH4	5.178376726	154	0%
2023 Annual	Santa Clara (SF)	UBUS	NG	68	40	RUNEX	40 CH4	4.860045135	214	0%
2023 Annual	Santa Clara (SF)	UBUS	NG	68	40	RUNEX	45 CH4	4.579256773	180	0%
2023 Annual	Santa Clara (SF)	UBUS	NG	68	40	RUNEX	50 CH4	4.328083023	159	0%
2023 Annual	Santa Clara (SF)	UBUS	NG	68	40	RUNEX	55 CH4	4.100868729	234	0%
2023 Annual	Santa Clara (SF)	UBUS	NG	68	40	RUNEX	60 CH4	3.89343833	320	0%
2023 Annual	Santa Clara (SF)	UBUS	NG	68	40	RUNEX	65 CH4	3.702620861	46	0%
2023 Annual	Santa Clara (SF)	UBUS	NG	68	40	RUNEX	70 CH4	3.525951479	0	0%
2023 Annual	Santa Clara (SF)	UBUS	NG	68	40	RUNEX	75 CH4	3.525951479	0	0%
2023 Annual	Santa Clara (SF)	UBUS	NG	68	40	RUNEX	80 CH4	3.525951479	0	0%

2023 Annual	Santa Clara (SF)	UBUS	NG	68	40	RUNEX	85 CH4	3.525951479	0	0%
2023 Annual	Santa Clara (SF)	UBUS	NG	68	40	RUNEX	90 CH4	3.525951479	0	0%
2043 Annual	Santa Clara (SF)	All Other Buses	Dsl	68	40	RUNEX	5 CH4	0.002735012	637	0%
2043 Annual	Santa Clara (SF)	All Other Buses	Dsl	68	40	RUNEX	10 CH4	0.001716245	1926	0%
2043 Annual	Santa Clara (SF)	All Other Buses	Dsl	68	40	RUNEX	15 CH4	0.000954137	2191	0%
2043 Annual	Santa Clara (SF)	All Other Buses	Dsl	68	40	RUNEX	20 CH4	0.000648138	2545	0%
2043 Annual	Santa Clara (SF)	All Other Buses	Dsl	68	40	RUNEX	25 CH4	0.000508992	3095	0%
2043 Annual	Santa Clara (SF)	All Other Buses	Dsl	68	40	RUNEX	30 CH4	0.000411673	4221	0%
2043 Annual	Santa Clara (SF)	All Other Buses	Dsl	68	40	RUNEX	35 CH4	0.000339038	7764	0%
2043 Annual	Santa Clara (SF)	All Other Buses	Dsl	68	40	RUNEX	40 CH4	0.000291088	9230	0%
2043 Annual	Santa Clara (SF)	All Other Buses	Dsl	68	40	RUNEX	45 CH4	0.000267822	5850	0%
2043 Annual	Santa Clara (SF)	All Other Buses	Dsl	68	40	RUNEX	50 CH4	0.000269241	1727	0%
2043 Annual	Santa Clara (SF)	All Other Buses	Dsl	68	40	RUNEX	55 CH4	0.000295344	428	0%
2043 Annual	Santa Clara (SF)	All Other Buses	Dsl	68	40	RUNEX	60 CH4	0.000346131	31	0%
2043 Annual	Santa Clara (SF)	All Other Buses	Dsl	68	40	RUNEX	65 CH4	0.000421603	0	0%
2043 Annual	Santa Clara (SF)	All Other Buses	Dsl	68	40	RUNEX	70 CH4	0.000510548	0	0%
2043 Annual	Santa Clara (SF)	All Other Buses	Dsl	68	40	RUNEX	75 CH4	0.000621414	0	0%
2043 Annual	Santa Clara (SF)	All Other Buses	Dsl	68	40	RUNEX	80 CH4	0.000754201	0	0%
2043 Annual	Santa Clara (SF)	All Other Buses	Dsl	68	40	RUNEX	85 CH4	0.00090891	0	0%
2043 Annual	Santa Clara (SF)	All Other Buses	Dsl	68	40	RUNEX	90 CH4	0.00108554	0	0%
2043 Annual	Santa Clara (SF)	LDA	Dsl	68	40	RUNEX	5 CH4	0.003775234	542	0%
2043 Annual	Santa Clara (SF)	LDA	Dsl	68	40	RUNEX	10 CH4	0.002825968	375	0%
2043 Annual	Santa Clara (SF)	LDA	Dsl	68	40	RUNEX	15 CH4	0.001380333	1597	0%
2043 Annual	Santa Clara (SF)	LDA	Dsl	68	40	RUNEX	20 CH4	0.000537174	5844	0%
2043 Annual	Santa Clara (SF)	LDA	Dsl	68	40	RUNEX	25 CH4	0.000322655	14106	0%
2043 Annual	Santa Clara (SF)	LDA	Dsl	68	40	RUNEX	30 CH4	0.00024379	113794	0%
2043 Annual	Santa Clara (SF)	LDA	Dsl	68	40	RUNEX	35 CH4	0.000193902	24788	0%
2043 Annual	Santa Clara (SF)	LDA	Dsl	68	40	RUNEX	40 CH4	0.000159893	25511	0%
2043 Annual	Santa Clara (SF)	LDA	Dsl	68	40	RUNEX	45 CH4	0.000135425	48624	0%
2043 Annual	Santa Clara (SF)	LDA	Dsl	68	40	RUNEX	50 CH4	0.000117092	16829	0%
2043 Annual	Santa Clara (SF)	LDA	Dsl	68	40	RUNEX	55 CH4	0.000102918	32422	0%
2043 Annual	Santa Clara (SF)	LDA	Dsl	68	40	RUNEX	60 CH4	9.70E-05	76785	0%
2043 Annual	Santa Clara (SF)	LDA	Dsl	68	40	RUNEX	65 CH4	9.71E-05	32158	0%
2043 Annual	Santa Clara (SF)	LDA	Dsl	68	40	RUNEX	70 CH4	9.72E-05	0	0%
2043 Annual	Santa Clara (SF)	LDA	Dsl	68	40	RUNEX	75 CH4	9.72E-05	0	0%
2043 Annual	Santa Clara (SF)	LDA	Dsl	68	40	RUNEX	80 CH4	9.72E-05	0	0%
2043 Annual	Santa Clara (SF)	LDA	Dsl	68	40	RUNEX	85 CH4	9.72E-05	0	0%
2043 Annual	Santa Clara (SF)	LDA	Dsl	68	40	RUNEX	90 CH4	9.72E-05	0	0%
2043 Annual	Santa Clara (SF)	LDA	Gas	68	40	RUNEX	5 CH4	0.004087277	43511	0%
2043 Annual	Santa Clara (SF)	LDA	Gas	68	40	RUNEX	10 CH4	0.002738485	30136	0%
2043 Annual	Santa Clara (SF)	LDA	Gas	68	40	RUNEX	15 CH4	0.001921633	128256	0%
2043 Annual	Santa Clara (SF)	LDA	Gas	68	40	RUNEX	20 CH4	0.001412261	469419	1%
2043 Annual	Santa Clara (SF)	LDA	Gas	68	40	RUNEX	25 CH4	0.001087033	1132995	2%
2043 Annual	Santa Clara (SF)	LDA	Gas	68	40	RUNEX	30 CH4	0.0008763	9139929	17%
2043 Annual	Santa Clara (SF)	LDA	Gas	68	40	RUNEX	35 CH4	0.000739854	1990953	4%
2043 Annual	Santa Clara (SF)	LDA	Gas	68	40	RUNEX	40 CH4	0.000654219	2049078	4%
2043 Annual	Santa Clara (SF)	LDA	Gas	68	40	RUNEX	45 CH4	0.000605874	3905466	7%
2043 Annual	Santa Clara (SF)	LDA	Gas	68	40	RUNEX	50 CH4	0.000587659	1351720	2%
2043 Annual	Santa Clara (SF)	LDA	Gas	68	40	RUNEX	55 CH4	0.000596969	2604145	5%
2043 Annual	Santa Clara (SF)	LDA	Gas	68	40	RUNEX	60 CH4	0.000635127	6167356	11%
2043 Annual	Santa Clara (SF)	LDA	Gas	68	40	RUNEX	65 CH4	0.000707706	2582951	5%
2043 Annual	Santa Clara (SF)	LDA	Gas	68	40	RUNEX	70 CH4	0.000760118	0	0%
2043 Annual	Santa Clara (SF)	LDA	Gas	68	40	RUNEX	75 CH4	0.000760118	0	0%
2043 Annual	Santa Clara (SF)	LDA	Gas	68	40	RUNEX	80 CH4	0.000760118	0	0%
2043 Annual	Santa Clara (SF)	LDA	Gas	68	40	RUNEX	85 CH4	0.000760118	0	0%
2043 Annual	Santa Clara (SF)	LDA	Gas	68	40	RUNEX	90 CH4	0.000760118	0	0%
2043 Annual	Santa Clara (SF)	LDT1	Dsl	68	40	RUNEX	5 CH4	0.012402912	1	0%
2043 Annual	Santa Clara (SF)	LDT1	Dsl	68	40	RUNEX	10 CH4	0.009282729	0	0%
2043 Annual	Santa Clara (SF)	LDT1	Dsl	68	40	RUNEX	15 CH4	0.004538983	2	0%
2043 Annual	Santa Clara (SF)	LDT1	Dsl	68	40	RUNEX	20 CH4	0.001771917	6	0%
2043 Annual	Santa Clara (SF)	LDT1	Dsl	68	40	RUNEX	25 CH4	0.001066529	15	0%
2043 Annual	Santa Clara (SF)	LDT1	Dsl	68	40	RUNEX	30 CH4	0.000806554	120	0%
2043 Annual	Santa Clara (SF)	LDT1	Dsl	68	40	RUNEX	35 CH4	0.000642091	26	0%
2043 Annual	Santa Clara (SF)	LDT1	Dsl	68	40	RUNEX	40 CH4	0.000530061	27	0%
2043 Annual	Santa Clara (SF)	LDT1	Dsl	68	40	RUNEX	45 CH4	0.000449603	51	0%
2043 Annual	Santa Clara (SF)	LDT1	Dsl	68	40	RUNEX	50 CH4	0.00038952	18	0%
2043 Annual	Santa Clara (SF)	LDT1	Dsl	68	40	RUNEX	55 CH4	0.000343336	34	0%
2043 Annual	Santa Clara (SF)	LDT1	Dsl	68	40	RUNEX	60 CH4	0.000324593	81	0%
2043 Annual	Santa Clara (SF)	LDT1	Dsl	68	40	RUNEX	65 CH4	0.00032587	34	0%
2043 Annual	Santa Clara (SF)	LDT1	Dsl	68	40	RUNEX	70 CH4	0.00032676	0	0%
2043 Annual	Santa Clara (SF)	LDT1	Dsl	68	40	RUNEX	75 CH4	0.00032676	0	0%
2043 Annual	Santa Clara (SF)	LDT1	Dsl	68	40	RUNEX	80 CH4	0.00032676	0	0%



2043 Annual	Santa Clara (SF)	LDT1	Dsl	68	40	RUNEX	85 CH4	0.00032676	0	0%
2043 Annual	Santa Clara (SF)	LDT1	Dsl	68	40	RUNEX	90 CH4	0.00032676	0	0%
2043 Annual	Santa Clara (SF)	LDT1	Gas	68	40	RUNEX	5 CH4	0.004426801	4153	0%
2043 Annual	Santa Clara (SF)	LDT1	Gas	68	40	RUNEX	10 CH4	0.002966426	2876	0%
2043 Annual	Santa Clara (SF)	LDT1	Gas	68	40	RUNEX	15 CH4	0.002081888	12242	0%
2043 Annual	Santa Clara (SF)	LDT1	Gas	68	40	RUNEX	20 CH4	0.001530239	44805	0%
2043 Annual	Santa Clara (SF)	LDT1	Gas	68	40	RUNEX	25 CH4	0.001177971	108141	0%
2043 Annual	Santa Clara (SF)	LDT1	Gas	68	40	RUNEX	30 CH4	0.000949687	872381	2%
2043 Annual	Santa Clara (SF)	LDT1	Gas	68	40	RUNEX	35 CH4	0.000801855	190031	0%
2043 Annual	Santa Clara (SF)	LDT1	Gas	68	40	RUNEX	40 CH4	0.000709054	195579	0%
2043 Annual	Santa Clara (SF)	LDT1	Gas	68	40	RUNEX	45 CH4	0.000656643	372766	1%
2043 Annual	Santa Clara (SF)	LDT1	Gas	68	40	RUNEX	50 CH4	0.000636866	129018	0%
2043 Annual	Santa Clara (SF)	LDT1	Gas	68	40	RUNEX	55 CH4	0.000646899	248558	0%
2043 Annual	Santa Clara (SF)	LDT1	Gas	68	40	RUNEX	60 CH4	0.00068817	588657	1%
2043 Annual	Santa Clara (SF)	LDT1	Gas	68	40	RUNEX	65 CH4	0.000766708	246536	0%
2043 Annual	Santa Clara (SF)	LDT1	Gas	68	40	RUNEX	70 CH4	0.000823429	0	0%
2043 Annual	Santa Clara (SF)	LDT1	Gas	68	40	RUNEX	75 CH4	0.000823429	0	0%
2043 Annual	Santa Clara (SF)	LDT1	Gas	68	40	RUNEX	80 CH4	0.000823429	0	0%
2043 Annual	Santa Clara (SF)	LDT1	Gas	68	40	RUNEX	85 CH4	0.000823429	0	0%
2043 Annual	Santa Clara (SF)	LDT1	Gas	68	40	RUNEX	90 CH4	0.000823429	0	0%
2043 Annual	Santa Clara (SF)	LDT2	Dsl	68	40	RUNEX	5 CH4	0.012361727	131	0%
2043 Annual	Santa Clara (SF)	LDT2	Dsl	68	40	RUNEX	10 CH4	0.009253829	91	0%
2043 Annual	Santa Clara (SF)	LDT2	Dsl	68	40	RUNEX	15 CH4	0.004518715	388	0%
2043 Annual	Santa Clara (SF)	LDT2	Dsl	68	40	RUNEX	20 CH4	0.001757062	1419	0%
2043 Annual	Santa Clara (SF)	LDT2	Dsl	68	40	RUNEX	25 CH4	0.001054801	3424	0%
2043 Annual	Santa Clara (SF)	LDT2	Dsl	68	40	RUNEX	30 CH4	0.000796794	27622	0%
2043 Annual	Santa Clara (SF)	LDT2	Dsl	68	40	RUNEX	35 CH4	0.000633587	6017	0%
2043 Annual	Santa Clara (SF)	LDT2	Dsl	68	40	RUNEX	40 CH4	0.000522307	6193	0%
2043 Annual	Santa Clara (SF)	LDT2	Dsl	68	40	RUNEX	45 CH4	0.000442206	11803	0%
2043 Annual	Santa Clara (SF)	LDT2	Dsl	68	40	RUNEX	50 CH4	0.000382137	4085	0%
2043 Annual	Santa Clara (SF)	LDT2	Dsl	68	40	RUNEX	55 CH4	0.000335625	7870	0%
2043 Annual	Santa Clara (SF)	LDT2	Dsl	68	40	RUNEX	60 CH4	0.00031616	18638	0%
2043 Annual	Santa Clara (SF)	LDT2	Dsl	68	40	RUNEX	65 CH4	0.000316213	7806	0%
2043 Annual	Santa Clara (SF)	LDT2	Dsl	68	40	RUNEX	70 CH4	0.00031625	0	0%
2043 Annual	Santa Clara (SF)	LDT2	Dsl	68	40	RUNEX	75 CH4	0.00031625	0	0%
2043 Annual	Santa Clara (SF)	LDT2	Dsl	68	40	RUNEX	80 CH4	0.00031625	0	0%
2043 Annual	Santa Clara (SF)	LDT2	Dsl	68	40	RUNEX	85 CH4	0.00031625	0	0%
2043 Annual	Santa Clara (SF)	LDT2	Dsl	68	40	RUNEX	90 CH4	0.00031625	0	0%
2043 Annual	Santa Clara (SF)	LDT2	Gas	68	40	RUNEX	5 CH4	0.005806566	12754	0%
2043 Annual	Santa Clara (SF)	LDT2	Gas	68	40	RUNEX	10 CH4	0.003891453	8834	0%
2043 Annual	Santa Clara (SF)	LDT2	Gas	68	40	RUNEX	15 CH4	0.002731379	37595	0%
2043 Annual	Santa Clara (SF)	LDT2	Gas	68	40	RUNEX	20 CH4	0.002007822	137598	0%
2043 Annual	Santa Clara (SF)	LDT2	Gas	68	40	RUNEX	25 CH4	0.001545737	332107	1%
2043 Annual	Santa Clara (SF)	LDT2	Gas	68	40	RUNEX	30 CH4	0.001246256	2679128	5%
2043 Annual	Santa Clara (SF)	LDT2	Gas	68	40	RUNEX	35 CH4	0.001052298	583595	1%
2043 Annual	Santa Clara (SF)	LDT2	Gas	68	40	RUNEX	40 CH4	0.000930522	600633	1%
2043 Annual	Santa Clara (SF)	LDT2	Gas	68	40	RUNEX	45 CH4	0.000861729	1144784	2%
2043 Annual	Santa Clara (SF)	LDT2	Gas	68	40	RUNEX	50 CH4	0.000835741	396221	1%
2043 Annual	Santa Clara (SF)	LDT2	Gas	68	40	RUNEX	55 CH4	0.000848852	763336	1%
2043 Annual	Santa Clara (SF)	LDT2	Gas	68	40	RUNEX	60 CH4	0.000902932	1807797	3%
2043 Annual	Santa Clara (SF)	LDT2	Gas	68	40	RUNEX	65 CH4	0.001005882	757123	1%
2043 Annual	Santa Clara (SF)	LDT2	Gas	68	40	RUNEX	70 CH4	0.00108024	0	0%
2043 Annual	Santa Clara (SF)	LDT2	Gas	68	40	RUNEX	75 CH4	0.00108024	0	0%
2043 Annual	Santa Clara (SF)	LDT2	Gas	68	40	RUNEX	80 CH4	0.00108024	0	0%
2043 Annual	Santa Clara (SF)	LDT2	Gas	68	40	RUNEX	85 CH4	0.00108024	0	0%
2043 Annual	Santa Clara (SF)	LDT2	Gas	68	40	RUNEX	90 CH4	0.00108024	0	0%
2043 Annual	Santa Clara (SF)	LHD1	Dsl	68	40	RUNEX	5 CH4	0.035015816	12990	0%
2043 Annual	Santa Clara (SF)	LHD1	Dsl	68	40	RUNEX	10 CH4	0.026199903	33249	0%
2043 Annual	Santa Clara (SF)	LHD1	Dsl	68	40	RUNEX	15 CH4	0.012833411	83714	0%
2043 Annual	Santa Clara (SF)	LHD1	Dsl	68	40	RUNEX	20 CH4	0.005035241	89426	0%
2043 Annual	Santa Clara (SF)	LHD1	Dsl	68	40	RUNEX	25 CH4	0.003040926	94151	0%
2043 Annual	Santa Clara (SF)	LHD1	Dsl	68	40	RUNEX	30 CH4	0.002302933	75394	0%
2043 Annual	Santa Clara (SF)	LHD1	Dsl	68	40	RUNEX	35 CH4	0.001836028	41232	0%
2043 Annual	Santa Clara (SF)	LHD1	Dsl	68	40	RUNEX	40 CH4	0.001518362	21499	0%
2043 Annual	Santa Clara (SF)	LHD1	Dsl	68	40	RUNEX	45 CH4	0.001290885	21369	0%
2043 Annual	Santa Clara (SF)	LHD1	Dsl	68	40	RUNEX	50 CH4	0.001121937	93441	0%
2043 Annual	Santa Clara (SF)	LHD1	Dsl	68	40	RUNEX	55 CH4	0.000993308	54074	0%
2043 Annual	Santa Clara (SF)	LHD1	Dsl	68	40	RUNEX	60 CH4	0.000943265	0	0%
2043 Annual	Santa Clara (SF)	LHD1	Dsl	68	40	RUNEX	65 CH4	0.000951325	0	0%
2043 Annual	Santa Clara (SF)	LHD1	Dsl	68	40	RUNEX	70 CH4	0.000956945	0	0%
2043 Annual	Santa Clara (SF)	LHD1	Dsl	68	40	RUNEX	75 CH4	0.000956945	0	0%
2043 Annual	Santa Clara (SF)	LHD1	Dsl	68	40	RUNEX	80 CH4	0.000956945	0	0%

2043 Annual	Santa Clara (SF)	LHD1	Dsl	68	40	RUNEX	85 CH4	0.000956945	0	0%
2043 Annual	Santa Clara (SF)	LHD1	Dsl	68	40	RUNEX	90 CH4	0.000956945	0	0%
2043 Annual	Santa Clara (SF)	LHD1	Gas	68	40	RUNEX	5 CH4	0.007158306	19488	0%
2043 Annual	Santa Clara (SF)	LHD1	Gas	68	40	RUNEX	10 CH4	0.004796029	42624	0%
2043 Annual	Santa Clara (SF)	LHD1	Gas	68	40	RUNEX	15 CH4	0.003365405	108560	0%
2043 Annual	Santa Clara (SF)	LHD1	Gas	68	40	RUNEX	20 CH4	0.002473305	122718	0%
2043 Annual	Santa Clara (SF)	LHD1	Gas	68	40	RUNEX	25 CH4	0.001903716	96619	0%
2043 Annual	Santa Clara (SF)	LHD1	Gas	68	40	RUNEX	30 CH4	0.00153465	81894	0%
2043 Annual	Santa Clara (SF)	LHD1	Gas	68	40	RUNEX	35 CH4	0.001295691	31705	0%
2043 Annual	Santa Clara (SF)	LHD1	Gas	68	40	RUNEX	40 CH4	0.001145718	8507	0%
2043 Annual	Santa Clara (SF)	LHD1	Gas	68	40	RUNEX	45 CH4	0.001061055	9440	0%
2043 Annual	Santa Clara (SF)	LHD1	Gas	68	40	RUNEX	50 CH4	0.001029159	82887	0%
2043 Annual	Santa Clara (SF)	LHD1	Gas	68	40	RUNEX	55 CH4	0.001045469	21334	0%
2043 Annual	Santa Clara (SF)	LHD1	Gas	68	40	RUNEX	60 CH4	0.001112304	0	0%
2043 Annual	Santa Clara (SF)	LHD1	Gas	68	40	RUNEX	65 CH4	0.001239426	0	0%
2043 Annual	Santa Clara (SF)	LHD1	Gas	68	40	RUNEX	70 CH4	0.001331223	0	0%
2043 Annual	Santa Clara (SF)	LHD1	Gas	68	40	RUNEX	75 CH4	0.001331223	0	0%
2043 Annual	Santa Clara (SF)	LHD1	Gas	68	40	RUNEX	80 CH4	0.001331223	0	0%
2043 Annual	Santa Clara (SF)	LHD1	Gas	68	40	RUNEX	85 CH4	0.001331223	0	0%
2043 Annual	Santa Clara (SF)	LHD1	Gas	68	40	RUNEX	90 CH4	0.001331223	0	0%
2043 Annual	Santa Clara (SF)	LHD2	Dsl	68	40	RUNEX	5 CH4	0.035201692	5109	0%
2043 Annual	Santa Clara (SF)	LHD2	Dsl	68	40	RUNEX	10 CH4	0.026321039	13078	0%
2043 Annual	Santa Clara (SF)	LHD2	Dsl	68	40	RUNEX	15 CH4	0.012949969	32929	0%
2043 Annual	Santa Clara (SF)	LHD2	Dsl	68	40	RUNEX	20 CH4	0.005145593	35176	0%
2043 Annual	Santa Clara (SF)	LHD2	Dsl	68	40	RUNEX	25 CH4	0.003133374	37034	0%
2043 Annual	Santa Clara (SF)	LHD2	Dsl	68	40	RUNEX	30 CH4	0.002381173	29656	0%
2043 Annual	Santa Clara (SF)	LHD2	Dsl	68	40	RUNEX	35 CH4	0.001905169	16218	0%
2043 Annual	Santa Clara (SF)	LHD2	Dsl	68	40	RUNEX	40 CH4	0.001582289	8457	0%
2043 Annual	Santa Clara (SF)	LHD2	Dsl	68	40	RUNEX	45 CH4	0.001352767	8406	0%
2043 Annual	Santa Clara (SF)	LHD2	Dsl	68	40	RUNEX	50 CH4	0.001184651	36755	0%
2043 Annual	Santa Clara (SF)	LHD2	Dsl	68	40	RUNEX	55 CH4	0.001059825	21270	0%
2043 Annual	Santa Clara (SF)	LHD2	Dsl	68	40	RUNEX	60 CH4	0.001016835	0	0%
2043 Annual	Santa Clara (SF)	LHD2	Dsl	68	40	RUNEX	65 CH4	0.001036307	0	0%
2043 Annual	Santa Clara (SF)	LHD2	Dsl	68	40	RUNEX	70 CH4	0.001049883	0	0%
2043 Annual	Santa Clara (SF)	LHD2	Dsl	68	40	RUNEX	75 CH4	0.001049883	0	0%
2043 Annual	Santa Clara (SF)	LHD2	Dsl	68	40	RUNEX	80 CH4	0.001049883	0	0%
2043 Annual	Santa Clara (SF)	LHD2	Dsl	68	40	RUNEX	85 CH4	0.001049883	0	0%
2043 Annual	Santa Clara (SF)	LHD2	Dsl	68	40	RUNEX	90 CH4	0.001049883	0	0%
2043 Annual	Santa Clara (SF)	LHD2	Gas	68	40	RUNEX	5 CH4	0.007018456	2931	0%
2043 Annual	Santa Clara (SF)	LHD2	Gas	68	40	RUNEX	10 CH4	0.00470233	6410	0%
2043 Annual	Santa Clara (SF)	LHD2	Gas	68	40	RUNEX	15 CH4	0.003299656	16326	0%
2043 Annual	Santa Clara (SF)	LHD2	Gas	68	40	RUNEX	20 CH4	0.002424985	18455	0%
2043 Annual	Santa Clara (SF)	LHD2	Gas	68	40	RUNEX	25 CH4	0.001866523	14531	0%
2043 Annual	Santa Clara (SF)	LHD2	Gas	68	40	RUNEX	30 CH4	0.001504668	12316	0%
2043 Annual	Santa Clara (SF)	LHD2	Gas	68	40	RUNEX	35 CH4	0.001270377	4768	0%
2043 Annual	Santa Clara (SF)	LHD2	Gas	68	40	RUNEX	40 CH4	0.001123334	1279	0%
2043 Annual	Santa Clara (SF)	LHD2	Gas	68	40	RUNEX	45 CH4	0.001040325	1420	0%
2043 Annual	Santa Clara (SF)	LHD2	Gas	68	40	RUNEX	50 CH4	0.001009053	12465	0%
2043 Annual	Santa Clara (SF)	LHD2	Gas	68	40	RUNEX	55 CH4	0.001025044	3208	0%
2043 Annual	Santa Clara (SF)	LHD2	Gas	68	40	RUNEX	60 CH4	0.001090574	0	0%
2043 Annual	Santa Clara (SF)	LHD2	Gas	68	40	RUNEX	65 CH4	0.001215212	0	0%
2043 Annual	Santa Clara (SF)	LHD2	Gas	68	40	RUNEX	70 CH4	0.001305215	0	0%
2043 Annual	Santa Clara (SF)	LHD2	Gas	68	40	RUNEX	75 CH4	0.001305215	0	0%
2043 Annual	Santa Clara (SF)	LHD2	Gas	68	40	RUNEX	80 CH4	0.001305215	0	0%
2043 Annual	Santa Clara (SF)	LHD2	Gas	68	40	RUNEX	85 CH4	0.001305215	0	0%
2043 Annual	Santa Clara (SF)	LHD2	Gas	68	40	RUNEX	90 CH4	0.001305215	0	0%
2043 Annual	Santa Clara (SF)	MCY	Gas	68	40	RUNEX	5 CH4	1.503182817	391	0%
2043 Annual	Santa Clara (SF)	MCY	Gas	68	40	RUNEX	10 CH4	1.030541932	271	0%
2043 Annual	Santa Clara (SF)	MCY	Gas	68	40	RUNEX	15 CH4	0.739732685	1154	0%
2043 Annual	Santa Clara (SF)	MCY	Gas	68	40	RUNEX	20 CH4	0.555768708	4223	0%
2043 Annual	Santa Clara (SF)	MCY	Gas	68	40	RUNEX	25 CH4	0.436898677	10192	0%
2043 Annual	Santa Clara (SF)	MCY	Gas	68	40	RUNEX	30 CH4	0.359249145	82218	0%
2043 Annual	Santa Clara (SF)	MCY	Gas	68	40	RUNEX	35 CH4	0.308894746	17910	0%
2043 Annual	Santa Clara (SF)	MCY	Gas	68	40	RUNEX	40 CH4	0.277654983	18433	0%
2043 Annual	Santa Clara (SF)	MCY	Gas	68	40	RUNEX	45 CH4	0.260839626	35132	0%
2043 Annual	Santa Clara (SF)	MCY	Gas	68	40	RUNEX	50 CH4	0.256048717	12159	0%
2043 Annual	Santa Clara (SF)	MCY	Gas	68	40	RUNEX	55 CH4	0.262588423	23426	0%
2043 Annual	Santa Clara (SF)	MCY	Gas	68	40	RUNEX	60 CH4	0.281301073	55479	0%
2043 Annual	Santa Clara (SF)	MCY	Gas	68	40	RUNEX	65 CH4	0.314751531	23235	0%
2043 Annual	Santa Clara (SF)	MCY	Gas	68	40	RUNEX	70 CH4	0.338409914	0	0%
2043 Annual	Santa Clara (SF)	MCY	Gas	68	40	RUNEX	75 CH4	0.338409914	0	0%
2043 Annual	Santa Clara (SF)	MCY	Gas	68	40	RUNEX	80 CH4	0.338409914	0	0%

2043 Annual	Santa Clara (SF)	MCY	Gas	68	40	RUNEX	85 CH4	0.338409914	0	0%
2043 Annual	Santa Clara (SF)	MCY	Gas	68	40	RUNEX	90 CH4	0.338409914	0	0%
2043 Annual	Santa Clara (SF)	MDV	Dsl	68	40	RUNEX	5 CH4	0.004273416	287	0%
2043 Annual	Santa Clara (SF)	MDV	Dsl	68	40	RUNEX	10 CH4	0.003198905	199	0%
2043 Annual	Santa Clara (SF)	MDV	Dsl	68	40	RUNEX	15 CH4	0.00156243	847	0%
2043 Annual	Santa Clara (SF)	MDV	Dsl	68	40	RUNEX	20 CH4	0.000607968	3099	0%
2043 Annual	Santa Clara (SF)	MDV	Dsl	68	40	RUNEX	25 CH4	0.00036515	7479	0%
2043 Annual	Santa Clara (SF)	MDV	Dsl	68	40	RUNEX	30 CH4	0.000275889	60331	0%
2043 Annual	Santa Clara (SF)	MDV	Dsl	68	40	RUNEX	35 CH4	0.000219425	13142	0%
2043 Annual	Santa Clara (SF)	MDV	Dsl	68	40	RUNEX	40 CH4	0.000180932	13526	0%
2043 Annual	Santa Clara (SF)	MDV	Dsl	68	40	RUNEX	45 CH4	0.000153236	25779	0%
2043 Annual	Santa Clara (SF)	MDV	Dsl	68	40	RUNEX	50 CH4	0.000132482	8923	0%
2043 Annual	Santa Clara (SF)	MDV	Dsl	68	40	RUNEX	55 CH4	0.000116432	17190	0%
2043 Annual	Santa Clara (SF)	MDV	Dsl	68	40	RUNEX	60 CH4	0.000109752	40710	0%
2043 Annual	Santa Clara (SF)	MDV	Dsl	68	40	RUNEX	65 CH4	0.000109846	17050	0%
2043 Annual	Santa Clara (SF)	MDV	Dsl	68	40	RUNEX	70 CH4	0.000109912	0	0%
2043 Annual	Santa Clara (SF)	MDV	Dsl	68	40	RUNEX	75 CH4	0.000109912	0	0%
2043 Annual	Santa Clara (SF)	MDV	Dsl	68	40	RUNEX	80 CH4	0.000109912	0	0%
2043 Annual	Santa Clara (SF)	MDV	Dsl	68	40	RUNEX	85 CH4	0.000109912	0	0%
2043 Annual	Santa Clara (SF)	MDV	Dsl	68	40	RUNEX	90 CH4	0.000109912	0	0%
2043 Annual	Santa Clara (SF)	MDV	Gas	68	40	RUNEX	5 CH4	0.006251193	7929	0%
2043 Annual	Santa Clara (SF)	MDV	Gas	68	40	RUNEX	10 CH4	0.004190947	5491	0%
2043 Annual	Santa Clara (SF)	MDV	Gas	68	40	RUNEX	15 CH4	0.002942599	23371	0%
2043 Annual	Santa Clara (SF)	MDV	Gas	68	40	RUNEX	20 CH4	0.002163755	85538	0%
2043 Annual	Santa Clara (SF)	MDV	Gas	68	40	RUNEX	25 CH4	0.001666211	206454	0%
2043 Annual	Santa Clara (SF)	MDV	Gas	68	40	RUNEX	30 CH4	0.001343647	1665478	3%
2043 Annual	Santa Clara (SF)	MDV	Gas	68	40	RUNEX	35 CH4	0.001134664	362792	1%
2043 Annual	Santa Clara (SF)	MDV	Gas	68	40	RUNEX	40 CH4	0.001003392	373383	1%
2043 Annual	Santa Clara (SF)	MDV	Gas	68	40	RUNEX	45 CH4	0.000929166	711654	1%
2043 Annual	Santa Clara (SF)	MDV	Gas	68	40	RUNEX	50 CH4	0.000901027	246310	0%
2043 Annual	Santa Clara (SF)	MDV	Gas	68	40	RUNEX	55 CH4	0.000914976	474527	1%
2043 Annual	Santa Clara (SF)	MDV	Gas	68	40	RUNEX	60 CH4	0.00097301	1123816	2%
2043 Annual	Santa Clara (SF)	MDV	Gas	68	40	RUNEX	65 CH4	0.001083609	470665	1%
2043 Annual	Santa Clara (SF)	MDV	Gas	68	40	RUNEX	70 CH4	0.001163514	0	0%
2043 Annual	Santa Clara (SF)	MDV	Gas	68	40	RUNEX	75 CH4	0.001163514	0	0%
2043 Annual	Santa Clara (SF)	MDV	Gas	68	40	RUNEX	80 CH4	0.001163514	0	0%
2043 Annual	Santa Clara (SF)	MDV	Gas	68	40	RUNEX	85 CH4	0.001163514	0	0%
2043 Annual	Santa Clara (SF)	MDV	Gas	68	40	RUNEX	90 CH4	0.001163514	0	0%
2043 Annual	Santa Clara (SF)	MH	Dsl	68	40	RUNEX	5 CH4	0.03530794	99	0%
2043 Annual	Santa Clara (SF)	MH	Dsl	68	40	RUNEX	10 CH4	0.026438823	509	0%
2043 Annual	Santa Clara (SF)	MH	Dsl	68	40	RUNEX	15 CH4	0.012937998	620	0%
2043 Annual	Santa Clara (SF)	MH	Dsl	68	40	RUNEX	20 CH4	0.005087053	688	0%
2043 Annual	Santa Clara (SF)	MH	Dsl	68	40	RUNEX	25 CH4	0.003106318	703	0%
2043 Annual	Santa Clara (SF)	MH	Dsl	68	40	RUNEX	30 CH4	0.002369028	853	0%
2043 Annual	Santa Clara (SF)	MH	Dsl	68	40	RUNEX	35 CH4	0.001895096	1116	0%
2043 Annual	Santa Clara (SF)	MH	Dsl	68	40	RUNEX	40 CH4	0.001568801	1425	0%
2043 Annual	Santa Clara (SF)	MH	Dsl	68	40	RUNEX	45 CH4	0.001334148	1112	0%
2043 Annual	Santa Clara (SF)	MH	Dsl	68	40	RUNEX	50 CH4	0.00116105	1312	0%
2043 Annual	Santa Clara (SF)	MH	Dsl	68	40	RUNEX	55 CH4	0.001032029	1825	0%
2043 Annual	Santa Clara (SF)	MH	Dsl	68	40	RUNEX	60 CH4	0.000983495	2282	0%
2043 Annual	Santa Clara (SF)	MH	Dsl	68	40	RUNEX	65 CH4	0.000995111	321	0%
2043 Annual	Santa Clara (SF)	MH	Dsl	68	40	RUNEX	70 CH4	0.001014246	0	0%
2043 Annual	Santa Clara (SF)	MH	Dsl	68	40	RUNEX	75 CH4	0.001014246	0	0%
2043 Annual	Santa Clara (SF)	MH	Dsl	68	40	RUNEX	80 CH4	0.001014246	0	0%
2043 Annual	Santa Clara (SF)	MH	Dsl	68	40	RUNEX	85 CH4	0.001014246	0	0%
2043 Annual	Santa Clara (SF)	MH	Dsl	68	40	RUNEX	90 CH4	0.001014246	0	0%
2043 Annual	Santa Clara (SF)	MH	Gas	68	40	RUNEX	5 CH4	0.017290167	249	0%
2043 Annual	Santa Clara (SF)	MH	Gas	68	40	RUNEX	10 CH4	0.011584325	1311	0%
2043 Annual	Santa Clara (SF)	MH	Gas	68	40	RUNEX	15 CH4	0.008128796	1479	0%
2043 Annual	Santa Clara (SF)	MH	Gas	68	40	RUNEX	20 CH4	0.00597402	1616	0%
2043 Annual	Santa Clara (SF)	MH	Gas	68	40	RUNEX	25 CH4	0.004598234	1825	0%
2043 Annual	Santa Clara (SF)	MH	Gas	68	40	RUNEX	30 CH4	0.003706792	1984	0%
2043 Annual	Santa Clara (SF)	MH	Gas	68	40	RUNEX	35 CH4	0.00312961	2847	0%
2043 Annual	Santa Clara (SF)	MH	Gas	68	40	RUNEX	40 CH4	0.002767366	3759	0%
2043 Annual	Santa Clara (SF)	MH	Gas	68	40	RUNEX	45 CH4	0.002562871	3283	0%
2043 Annual	Santa Clara (SF)	MH	Gas	68	40	RUNEX	50 CH4	0.00248583	3197	0%
2043 Annual	Santa Clara (SF)	MH	Gas	68	40	RUNEX	55 CH4	0.002525225	3598	0%
2043 Annual	Santa Clara (SF)	MH	Gas	68	40	RUNEX	60 CH4	0.002686659	3801	0%
2043 Annual	Santa Clara (SF)	MH	Gas	68	40	RUNEX	65 CH4	0.002993709	495	0%
2043 Annual	Santa Clara (SF)	MH	Gas	68	40	RUNEX	70 CH4	0.003215435	0	0%
2043 Annual	Santa Clara (SF)	MH	Gas	68	40	RUNEX	75 CH4	0.003215435	0	0%
2043 Annual	Santa Clara (SF)	MH	Gas	68	40	RUNEX	80 CH4	0.003215435	0	0%

2043 Annual	Santa Clara (SF)	MH	Gas	68	40	RUNEX	85 CH4	0.003215435	0	0%
2043 Annual	Santa Clara (SF)	MH	Gas	68	40	RUNEX	90 CH4	0.003215435	0	0%
2043 Annual	Santa Clara (SF)	Motor Coach	Dsl	68	40	RUNEX	5 CH4	0.005193189	134	0%
2043 Annual	Santa Clara (SF)	Motor Coach	Dsl	68	40	RUNEX	10 CH4	0.003258774	305	0%
2043 Annual	Santa Clara (SF)	Motor Coach	Dsl	68	40	RUNEX	15 CH4	0.001811697	285	0%
2043 Annual	Santa Clara (SF)	Motor Coach	Dsl	68	40	RUNEX	20 CH4	0.001230672	417	0%
2043 Annual	Santa Clara (SF)	Motor Coach	Dsl	68	40	RUNEX	25 CH4	0.000966465	367	0%
2043 Annual	Santa Clara (SF)	Motor Coach	Dsl	68	40	RUNEX	30 CH4	0.000781677	203	0%
2043 Annual	Santa Clara (SF)	Motor Coach	Dsl	68	40	RUNEX	35 CH4	0.00064376	271	0%
2043 Annual	Santa Clara (SF)	Motor Coach	Dsl	68	40	RUNEX	40 CH4	0.000552713	251	0%
2043 Annual	Santa Clara (SF)	Motor Coach	Dsl	68	40	RUNEX	45 CH4	0.000508536	334	0%
2043 Annual	Santa Clara (SF)	Motor Coach	Dsl	68	40	RUNEX	50 CH4	0.000511229	492	0%
2043 Annual	Santa Clara (SF)	Motor Coach	Dsl	68	40	RUNEX	55 CH4	0.000560793	1181	0%
2043 Annual	Santa Clara (SF)	Motor Coach	Dsl	68	40	RUNEX	60 CH4	0.000657227	4309	0%
2043 Annual	Santa Clara (SF)	Motor Coach	Dsl	68	40	RUNEX	65 CH4	0.000800532	7895	0%
2043 Annual	Santa Clara (SF)	Motor Coach	Dsl	68	40	RUNEX	70 CH4	0.000990159	97	0%
2043 Annual	Santa Clara (SF)	Motor Coach	Dsl	68	40	RUNEX	75 CH4	0.001226521	0	0%
2043 Annual	Santa Clara (SF)	Motor Coach	Dsl	68	40	RUNEX	80 CH4	0.001509619	0	0%
2043 Annual	Santa Clara (SF)	Motor Coach	Dsl	68	40	RUNEX	85 CH4	0.001839452	0	0%
2043 Annual	Santa Clara (SF)	Motor Coach	Dsl	68	40	RUNEX	90 CH4	0.00221602	0	0%
2043 Annual	Santa Clara (SF)	OBUS	Gas	68	40	RUNEX	5 CH4	0.021412301	204	0%
2043 Annual	Santa Clara (SF)	OBUS	Gas	68	40	RUNEX	10 CH4	0.014346133	1075	0%
2043 Annual	Santa Clara (SF)	OBUS	Gas	68	40	RUNEX	15 CH4	0.010066775	1212	0%
2043 Annual	Santa Clara (SF)	OBUS	Gas	68	40	RUNEX	20 CH4	0.00739828	1324	0%
2043 Annual	Santa Clara (SF)	OBUS	Gas	68	40	RUNEX	25 CH4	0.005694494	1496	0%
2043 Annual	Santa Clara (SF)	OBUS	Gas	68	40	RUNEX	30 CH4	0.004590525	1626	0%
2043 Annual	Santa Clara (SF)	OBUS	Gas	68	40	RUNEX	35 CH4	0.003875738	2334	0%
2043 Annual	Santa Clara (SF)	OBUS	Gas	68	40	RUNEX	40 CH4	0.003427131	3081	0%
2043 Annual	Santa Clara (SF)	OBUS	Gas	68	40	RUNEX	45 CH4	0.003173883	2691	0%
2043 Annual	Santa Clara (SF)	OBUS	Gas	68	40	RUNEX	50 CH4	0.003078474	2621	0%
2043 Annual	Santa Clara (SF)	OBUS	Gas	68	40	RUNEX	55 CH4	0.003127262	2949	0%
2043 Annual	Santa Clara (SF)	OBUS	Gas	68	40	RUNEX	60 CH4	0.003327183	3115	0%
2043 Annual	Santa Clara (SF)	OBUS	Gas	68	40	RUNEX	65 CH4	0.003707437	406	0%
2043 Annual	Santa Clara (SF)	OBUS	Gas	68	40	RUNEX	70 CH4	0.003982024	0	0%
2043 Annual	Santa Clara (SF)	OBUS	Gas	68	40	RUNEX	75 CH4	0.003982024	0	0%
2043 Annual	Santa Clara (SF)	OBUS	Gas	68	40	RUNEX	80 CH4	0.003982024	0	0%
2043 Annual	Santa Clara (SF)	OBUS	Gas	68	40	RUNEX	85 CH4	0.003982024	0	0%
2043 Annual	Santa Clara (SF)	OBUS	Gas	68	40	RUNEX	90 CH4	0.003982024	0	0%
2043 Annual	Santa Clara (SF)	SBUS	Dsl	68	40	RUNEX	5 CH4	0.003236694	367	0%
2043 Annual	Santa Clara (SF)	SBUS	Dsl	68	40	RUNEX	10 CH4	0.002152849	903	0%
2043 Annual	Santa Clara (SF)	SBUS	Dsl	68	40	RUNEX	15 CH4	0.001268561	1160	0%
2043 Annual	Santa Clara (SF)	SBUS	Dsl	68	40	RUNEX	20 CH4	0.000871737	1531	0%
2043 Annual	Santa Clara (SF)	SBUS	Dsl	68	40	RUNEX	25 CH4	0.000671175	1969	0%
2043 Annual	Santa Clara (SF)	SBUS	Dsl	68	40	RUNEX	30 CH4	0.000530059	2296	0%
2043 Annual	Santa Clara (SF)	SBUS	Dsl	68	40	RUNEX	35 CH4	0.000425035	1957	0%
2043 Annual	Santa Clara (SF)	SBUS	Dsl	68	40	RUNEX	40 CH4	0.000352698	1434	0%
2043 Annual	Santa Clara (SF)	SBUS	Dsl	68	40	RUNEX	45 CH4	0.000310538	1207	0%
2043 Annual	Santa Clara (SF)	SBUS	Dsl	68	40	RUNEX	50 CH4	0.000296708	2059	0%
2043 Annual	Santa Clara (SF)	SBUS	Dsl	68	40	RUNEX	55 CH4	0.000309843	5217	0%
2043 Annual	Santa Clara (SF)	SBUS	Dsl	68	40	RUNEX	60 CH4	0.000352704	5147	0%
2043 Annual	Santa Clara (SF)	SBUS	Dsl	68	40	RUNEX	65 CH4	0.000422948	1933	0%
2043 Annual	Santa Clara (SF)	SBUS	Dsl	68	40	RUNEX	70 CH4	0.000505384	169	0%
2043 Annual	Santa Clara (SF)	SBUS	Dsl	68	40	RUNEX	75 CH4	0.000608137	9	0%
2043 Annual	Santa Clara (SF)	SBUS	Dsl	68	40	RUNEX	80 CH4	0.000731207	0	0%
2043 Annual	Santa Clara (SF)	SBUS	Dsl	68	40	RUNEX	85 CH4	0.000874594	0	0%
2043 Annual	Santa Clara (SF)	SBUS	Dsl	68	40	RUNEX	90 CH4	0.001038299	0	0%
2043 Annual	Santa Clara (SF)	SBUS	Gas	68	40	RUNEX	5 CH4	0.016465528	198	0%
2043 Annual	Santa Clara (SF)	SBUS	Gas	68	40	RUNEX	10 CH4	0.01103182	696	0%
2043 Annual	Santa Clara (SF)	SBUS	Gas	68	40	RUNEX	15 CH4	0.0077411	1391	0%
2043 Annual	Santa Clara (SF)	SBUS	Gas	68	40	RUNEX	20 CH4	0.005689094	1888	0%
2043 Annual	Santa Clara (SF)	SBUS	Gas	68	40	RUNEX	25 CH4	0.004378925	2981	0%
2043 Annual	Santa Clara (SF)	SBUS	Gas	68	40	RUNEX	30 CH4	0.00353	3576	0%
2043 Annual	Santa Clara (SF)	SBUS	Gas	68	40	RUNEX	35 CH4	0.002980346	3670	0%
2043 Annual	Santa Clara (SF)	SBUS	Gas	68	40	RUNEX	40 CH4	0.002635379	2478	0%
2043 Annual	Santa Clara (SF)	SBUS	Gas	68	40	RUNEX	45 CH4	0.002440637	1189	0%
2043 Annual	Santa Clara (SF)	SBUS	Gas	68	40	RUNEX	50 CH4	0.00236727	595	0%
2043 Annual	Santa Clara (SF)	SBUS	Gas	68	40	RUNEX	55 CH4	0.002404787	886	0%
2043 Annual	Santa Clara (SF)	SBUS	Gas	68	40	RUNEX	60 CH4	0.002558521	493	0%
2043 Annual	Santa Clara (SF)	SBUS	Gas	68	40	RUNEX	65 CH4	0.002850927	0	0%
2043 Annual	Santa Clara (SF)	SBUS	Gas	68	40	RUNEX	70 CH4	0.003062078	0	0%
2043 Annual	Santa Clara (SF)	SBUS	Gas	68	40	RUNEX	75 CH4	0.003062078	0	0%
2043 Annual	Santa Clara (SF)	SBUS	Gas	68	40	RUNEX	80 CH4	0.003062078	0	0%

2043 Annual	Santa Clara (SF)	SBUS	Gas	68	40	RUNEX	85 CH4	0.003062078	0	0%
2043 Annual	Santa Clara (SF)	SBUS	Gas	68	40	RUNEX	90 CH4	0.003062078	0	0%
2043 Annual	Santa Clara (SF)	T6 CAIRP Heavy	Dsl	68	40	RUNEX	5 CH4	0.002239776	79	0%
2043 Annual	Santa Clara (SF)	T6 CAIRP Heavy	Dsl	68	40	RUNEX	10 CH4	0.00140548	179	0%
2043 Annual	Santa Clara (SF)	T6 CAIRP Heavy	Dsl	68	40	RUNEX	15 CH4	0.000781369	175	0%
2043 Annual	Santa Clara (SF)	T6 CAIRP Heavy	Dsl	68	40	RUNEX	20 CH4	0.000530778	226	0%
2043 Annual	Santa Clara (SF)	T6 CAIRP Heavy	Dsl	68	40	RUNEX	25 CH4	0.000416827	195	0%
2043 Annual	Santa Clara (SF)	T6 CAIRP Heavy	Dsl	68	40	RUNEX	30 CH4	0.00033713	123	0%
2043 Annual	Santa Clara (SF)	T6 CAIRP Heavy	Dsl	68	40	RUNEX	35 CH4	0.000277648	178	0%
2043 Annual	Santa Clara (SF)	T6 CAIRP Heavy	Dsl	68	40	RUNEX	40 CH4	0.00023838	174	0%
2043 Annual	Santa Clara (SF)	T6 CAIRP Heavy	Dsl	68	40	RUNEX	45 CH4	0.000219327	222	0%
2043 Annual	Santa Clara (SF)	T6 CAIRP Heavy	Dsl	68	40	RUNEX	50 CH4	0.000220489	297	0%
2043 Annual	Santa Clara (SF)	T6 CAIRP Heavy	Dsl	68	40	RUNEX	55 CH4	0.000241865	697	0%
2043 Annual	Santa Clara (SF)	T6 CAIRP Heavy	Dsl	68	40	RUNEX	60 CH4	0.000283456	2424	0%
2043 Annual	Santa Clara (SF)	T6 CAIRP Heavy	Dsl	68	40	RUNEX	65 CH4	0.000345262	4676	0%
2043 Annual	Santa Clara (SF)	T6 CAIRP Heavy	Dsl	68	40	RUNEX	70 CH4	0.000427243	56	0%
2043 Annual	Santa Clara (SF)	T6 CAIRP Heavy	Dsl	68	40	RUNEX	75 CH4	0.000529428	0	0%
2043 Annual	Santa Clara (SF)	T6 CAIRP Heavy	Dsl	68	40	RUNEX	80 CH4	0.000651819	0	0%
2043 Annual	Santa Clara (SF)	T6 CAIRP Heavy	Dsl	68	40	RUNEX	85 CH4	0.000794414	0	0%
2043 Annual	Santa Clara (SF)	T6 CAIRP Heavy	Dsl	68	40	RUNEX	90 CH4	0.000957214	0	0%
2043 Annual	Santa Clara (SF)	T6 CAIRP Small	Dsl	68	40	RUNEX	5 CH4	0.002279933	10	0%
2043 Annual	Santa Clara (SF)	T6 CAIRP Small	Dsl	68	40	RUNEX	10 CH4	0.001430679	24	0%
2043 Annual	Santa Clara (SF)	T6 CAIRP Small	Dsl	68	40	RUNEX	15 CH4	0.000795378	23	0%
2043 Annual	Santa Clara (SF)	T6 CAIRP Small	Dsl	68	40	RUNEX	20 CH4	0.000540294	30	0%
2043 Annual	Santa Clara (SF)	T6 CAIRP Small	Dsl	68	40	RUNEX	25 CH4	0.000424301	26	0%
2043 Annual	Santa Clara (SF)	T6 CAIRP Small	Dsl	68	40	RUNEX	30 CH4	0.000343175	16	0%
2043 Annual	Santa Clara (SF)	T6 CAIRP Small	Dsl	68	40	RUNEX	35 CH4	0.000282626	23	0%
2043 Annual	Santa Clara (SF)	T6 CAIRP Small	Dsl	68	40	RUNEX	40 CH4	0.000242654	23	0%
2043 Annual	Santa Clara (SF)	T6 CAIRP Small	Dsl	68	40	RUNEX	45 CH4	0.000223259	29	0%
2043 Annual	Santa Clara (SF)	T6 CAIRP Small	Dsl	68	40	RUNEX	50 CH4	0.000224442	39	0%
2043 Annual	Santa Clara (SF)	T6 CAIRP Small	Dsl	68	40	RUNEX	55 CH4	0.000246201	92	0%
2043 Annual	Santa Clara (SF)	T6 CAIRP Small	Dsl	68	40	RUNEX	60 CH4	0.000288538	318	0%
2043 Annual	Santa Clara (SF)	T6 CAIRP Small	Dsl	68	40	RUNEX	65 CH4	0.000351452	614	0%
2043 Annual	Santa Clara (SF)	T6 CAIRP Small	Dsl	68	40	RUNEX	70 CH4	0.000434905	7	0%
2043 Annual	Santa Clara (SF)	T6 CAIRP Small	Dsl	68	40	RUNEX	75 CH4	0.000538925	0	0%
2043 Annual	Santa Clara (SF)	T6 CAIRP Small	Dsl	68	40	RUNEX	80 CH4	0.000663513	0	0%
2043 Annual	Santa Clara (SF)	T6 CAIRP Small	Dsl	68	40	RUNEX	85 CH4	0.000808668	0	0%
2043 Annual	Santa Clara (SF)	T6 CAIRP Small	Dsl	68	40	RUNEX	90 CH4	0.000974391	0	0%
2043 Annual	Santa Clara (SF)	T6 Instate Construction Heavy	Dsl	68	40	RUNEX	5 CH4	0.002760529	3341	0%
2043 Annual	Santa Clara (SF)	T6 Instate Construction Heavy	Dsl	68	40	RUNEX	10 CH4	0.001741737	2468	0%
2043 Annual	Santa Clara (SF)	T6 Instate Construction Heavy	Dsl	68	40	RUNEX	15 CH4	0.000967042	646	0%
2043 Annual	Santa Clara (SF)	T6 Instate Construction Heavy	Dsl	68	40	RUNEX	20 CH4	0.000651969	562	0%
2043 Annual	Santa Clara (SF)	T6 Instate Construction Heavy	Dsl	68	40	RUNEX	25 CH4	0.000511476	747	0%
2043 Annual	Santa Clara (SF)	T6 Instate Construction Heavy	Dsl	68	40	RUNEX	30 CH4	0.000413801	859	0%
2043 Annual	Santa Clara (SF)	T6 Instate Construction Heavy	Dsl	68	40	RUNEX	35 CH4	0.000340809	1083	0%
2043 Annual	Santa Clara (SF)	T6 Instate Construction Heavy	Dsl	68	40	RUNEX	40 CH4	0.000292454	1292	0%
2043 Annual	Santa Clara (SF)	T6 Instate Construction Heavy	Dsl	68	40	RUNEX	45 CH4	0.0002687	1556	0%
2043 Annual	Santa Clara (SF)	T6 Instate Construction Heavy	Dsl	68	40	RUNEX	50 CH4	0.000269522	1742	0%
2043 Annual	Santa Clara (SF)	T6 Instate Construction Heavy	Dsl	68	40	RUNEX	55 CH4	0.000294902	2121	0%
2043 Annual	Santa Clara (SF)	T6 Instate Construction Heavy	Dsl	68	40	RUNEX	60 CH4	0.000344791	6738	0%
2043 Annual	Santa Clara (SF)	T6 Instate Construction Heavy	Dsl	68	40	RUNEX	65 CH4	0.000418981	3955	0%
2043 Annual	Santa Clara (SF)	T6 Instate Construction Heavy	Dsl	68	40	RUNEX	70 CH4	0.000510138	571	0%
2043 Annual	Santa Clara (SF)	T6 Instate Construction Heavy	Dsl	68	40	RUNEX	75 CH4	0.000623762	346	0%
2043 Annual	Santa Clara (SF)	T6 Instate Construction Heavy	Dsl	68	40	RUNEX	80 CH4	0.000759852	0	0%
2043 Annual	Santa Clara (SF)	T6 Instate Construction Heavy	Dsl	68	40	RUNEX	85 CH4	0.000918409	0	0%
2043 Annual	Santa Clara (SF)	T6 Instate Construction Heavy	Dsl	68	40	RUNEX	90 CH4	0.001099432	0	0%
2043 Annual	Santa Clara (SF)	T6 Instate Construction Small	Dsl	68	40	RUNEX	5 CH4	0.002401279	7621	0%
2043 Annual	Santa Clara (SF)	T6 Instate Construction Small	Dsl	68	40	RUNEX	10 CH4	0.001506992	5631	0%
2043 Annual	Santa Clara (SF)	T6 Instate Construction Small	Dsl	68	40	RUNEX	15 CH4	0.000837832	1474	0%
2043 Annual	Santa Clara (SF)	T6 Instate Construction Small	Dsl	68	40	RUNEX	20 CH4	0.000569088	1282	0%
2043 Annual	Santa Clara (SF)	T6 Instate Construction Small	Dsl	68	40	RUNEX	25 CH4	0.000446899	1703	0%
2043 Annual	Santa Clara (SF)	T6 Instate Construction Small	Dsl	68	40	RUNEX	30 CH4	0.000361446	1960	0%
2043 Annual	Santa Clara (SF)	T6 Instate Construction Small	Dsl	68	40	RUNEX	35 CH4	0.000297667	2472	0%
2043 Annual	Santa Clara (SF)	T6 Instate Construction Small	Dsl	68	40	RUNEX	40 CH4	0.000255559	2948	0%
2043 Annual	Santa Clara (SF)	T6 Instate Construction Small	Dsl	68	40	RUNEX	45 CH4	0.000235121	3549	0%
2043 Annual	Santa Clara (SF)	T6 Instate Construction Small	Dsl	68	40	RUNEX	50 CH4	0.000236351	3975	0%
2043 Annual	Santa Clara (SF)	T6 Instate Construction Small	Dsl	68	40	RUNEX	55 CH4	0.000259249	4838	0%
2043 Annual	Santa Clara (SF)	T6 Instate Construction Small	Dsl	68	40	RUNEX	60 CH4	0.000303816	15370	0%
2043 Annual	Santa Clara (SF)	T6 Instate Construction Small	Dsl	68	40	RUNEX	65 CH4	0.000370047	9022	0%
2043 Annual	Santa Clara (SF)	T6 Instate Construction Small	Dsl	68	40	RUNEX	70 CH4	0.000457347	1301	0%
2043 Annual	Santa Clara (SF)	T6 Instate Construction Small	Dsl	68	40	RUNEX	75 CH4	0.000566162	788	0%
2043 Annual	Santa Clara (SF)	T6 Instate Construction Small	Dsl	68	40	RUNEX	80 CH4	0.000696494	0	0%

2043 Annual	Santa Clara (SF)	T6 Instate Construction Small	Dsl	68	40 RUNEX	85 CH4	0.000848341	0	0%
2043 Annual	Santa Clara (SF)	T6 Instate Construction Small	Dsl	68	40 RUNEX	90 CH4	0.001021705	0	0%
2043 Annual	Santa Clara (SF)	T6 Instate Heavy	Dsl	68	40 RUNEX	5 CH4	0.002513053	3630	0%
2043 Annual	Santa Clara (SF)	T6 Instate Heavy	Dsl	68	40 RUNEX	10 CH4	0.001576964	8234	0%
2043 Annual	Santa Clara (SF)	T6 Instate Heavy	Dsl	68	40 RUNEX	15 CH4	0.000876705	10518	0%
2043 Annual	Santa Clara (SF)	T6 Instate Heavy	Dsl	68	40 RUNEX	20 CH4	0.000595538	13873	0%
2043 Annual	Santa Clara (SF)	T6 Instate Heavy	Dsl	68	40 RUNEX	25 CH4	0.000467685	19386	0%
2043 Annual	Santa Clara (SF)	T6 Instate Heavy	Dsl	68	40 RUNEX	30 CH4	0.000378264	24715	0%
2043 Annual	Santa Clara (SF)	T6 Instate Heavy	Dsl	68	40 RUNEX	35 CH4	0.000311524	20685	0%
2043 Annual	Santa Clara (SF)	T6 Instate Heavy	Dsl	68	40 RUNEX	40 CH4	0.000267465	12536	0%
2043 Annual	Santa Clara (SF)	T6 Instate Heavy	Dsl	68	40 RUNEX	45 CH4	0.000246087	9264	0%
2043 Annual	Santa Clara (SF)	T6 Instate Heavy	Dsl	68	40 RUNEX	50 CH4	0.000247391	19133	0%
2043 Annual	Santa Clara (SF)	T6 Instate Heavy	Dsl	68	40 RUNEX	55 CH4	0.000271375	47811	0%
2043 Annual	Santa Clara (SF)	T6 Instate Heavy	Dsl	68	40 RUNEX	60 CH4	0.000318041	32470	0%
2043 Annual	Santa Clara (SF)	T6 Instate Heavy	Dsl	68	40 RUNEX	65 CH4	0.000387388	12637	0%
2043 Annual	Santa Clara (SF)	T6 Instate Heavy	Dsl	68	40 RUNEX	70 CH4	0.000475341	1078	0%
2043 Annual	Santa Clara (SF)	T6 Instate Heavy	Dsl	68	40 RUNEX	75 CH4	0.00058497	32	0%
2043 Annual	Santa Clara (SF)	T6 Instate Heavy	Dsl	68	40 RUNEX	80 CH4	0.000716277	0	0%
2043 Annual	Santa Clara (SF)	T6 Instate Heavy	Dsl	68	40 RUNEX	85 CH4	0.00086926	0	0%
2043 Annual	Santa Clara (SF)	T6 Instate Heavy	Dsl	68	40 RUNEX	90 CH4	0.00104392	0	0%
2043 Annual	Santa Clara (SF)	T6 Instate Small	Dsl	68	40 RUNEX	5 CH4	0.002405374	4786	0%
2043 Annual	Santa Clara (SF)	T6 Instate Small	Dsl	68	40 RUNEX	10 CH4	0.001509390	10858	0%
2043 Annual	Santa Clara (SF)	T6 Instate Small	Dsl	68	40 RUNEX	15 CH4	0.000839139	13868	0%
2043 Annual	Santa Clara (SF)	T6 Instate Small	Dsl	68	40 RUNEX	20 CH4	0.000570021	18293	0%
2043 Annual	Santa Clara (SF)	T6 Instate Small	Dsl	68	40 RUNEX	25 CH4	0.000447646	25562	0%
2043 Annual	Santa Clara (SF)	T6 Instate Small	Dsl	68	40 RUNEX	30 CH4	0.000362056	32589	0%
2043 Annual	Santa Clara (SF)	T6 Instate Small	Dsl	68	40 RUNEX	35 CH4	0.000298176	27276	0%
2043 Annual	Santa Clara (SF)	T6 Instate Small	Dsl	68	40 RUNEX	40 CH4	0.000256005	16530	0%
2043 Annual	Santa Clara (SF)	T6 Instate Small	Dsl	68	40 RUNEX	45 CH4	0.000235543	12215	0%
2043 Annual	Santa Clara (SF)	T6 Instate Small	Dsl	68	40 RUNEX	50 CH4	0.000236791	25228	0%
2043 Annual	Santa Clara (SF)	T6 Instate Small	Dsl	68	40 RUNEX	55 CH4	0.000259747	63044	0%
2043 Annual	Santa Clara (SF)	T6 Instate Small	Dsl	68	40 RUNEX	60 CH4	0.000304414	42815	0%
2043 Annual	Santa Clara (SF)	T6 Instate Small	Dsl	68	40 RUNEX	65 CH4	0.000370789	16663	0%
2043 Annual	Santa Clara (SF)	T6 Instate Small	Dsl	68	40 RUNEX	70 CH4	0.000458122	1422	0%
2043 Annual	Santa Clara (SF)	T6 Instate Small	Dsl	68	40 RUNEX	75 CH4	0.000566979	42	0%
2043 Annual	Santa Clara (SF)	T6 Instate Small	Dsl	68	40 RUNEX	80 CH4	0.00069736	0	0%
2043 Annual	Santa Clara (SF)	T6 Instate Small	Dsl	68	40 RUNEX	85 CH4	0.000849265	0	0%
2043 Annual	Santa Clara (SF)	T6 Instate Small	Dsl	68	40 RUNEX	90 CH4	0.001022695	0	0%
2043 Annual	Santa Clara (SF)	T6 OOS Heavy	Dsl	68	40 RUNEX	5 CH4	0.002237232	44	0%
2043 Annual	Santa Clara (SF)	T6 OOS Heavy	Dsl	68	40 RUNEX	10 CH4	0.001403884	100	0%
2043 Annual	Santa Clara (SF)	T6 OOS Heavy	Dsl	68	40 RUNEX	15 CH4	0.000780482	98	0%
2043 Annual	Santa Clara (SF)	T6 OOS Heavy	Dsl	68	40 RUNEX	20 CH4	0.000530175	127	0%
2043 Annual	Santa Clara (SF)	T6 OOS Heavy	Dsl	68	40 RUNEX	25 CH4	0.000416354	109	0%
2043 Annual	Santa Clara (SF)	T6 OOS Heavy	Dsl	68	40 RUNEX	30 CH4	0.000336747	69	0%
2043 Annual	Santa Clara (SF)	T6 OOS Heavy	Dsl	68	40 RUNEX	35 CH4	0.000277332	99	0%
2043 Annual	Santa Clara (SF)	T6 OOS Heavy	Dsl	68	40 RUNEX	40 CH4	0.000238109	97	0%
2043 Annual	Santa Clara (SF)	T6 OOS Heavy	Dsl	68	40 RUNEX	45 CH4	0.000219078	124	0%
2043 Annual	Santa Clara (SF)	T6 OOS Heavy	Dsl	68	40 RUNEX	50 CH4	0.000220238	166	0%
2043 Annual	Santa Clara (SF)	T6 OOS Heavy	Dsl	68	40 RUNEX	55 CH4	0.00024159	391	0%
2043 Annual	Santa Clara (SF)	T6 OOS Heavy	Dsl	68	40 RUNEX	60 CH4	0.000283134	1357	0%
2043 Annual	Santa Clara (SF)	T6 OOS Heavy	Dsl	68	40 RUNEX	65 CH4	0.00034487	2618	0%
2043 Annual	Santa Clara (SF)	T6 OOS Heavy	Dsl	68	40 RUNEX	70 CH4	0.000426762	31	0%
2043 Annual	Santa Clara (SF)	T6 OOS Heavy	Dsl	68	40 RUNEX	75 CH4	0.000528838	0	0%
2043 Annual	Santa Clara (SF)	T6 OOS Heavy	Dsl	68	40 RUNEX	80 CH4	0.000651096	0	0%
2043 Annual	Santa Clara (SF)	T6 OOS Heavy	Dsl	68	40 RUNEX	85 CH4	0.000793537	0	0%
2043 Annual	Santa Clara (SF)	T6 OOS Heavy	Dsl	68	40 RUNEX	90 CH4	0.000956162	0	0%
2043 Annual	Santa Clara (SF)	T6 OOS Small	Dsl	68	40 RUNEX	5 CH4	0.002287854	6	0%
2043 Annual	Santa Clara (SF)	T6 OOS Small	Dsl	68	40 RUNEX	10 CH4	0.001435649	13	0%
2043 Annual	Santa Clara (SF)	T6 OOS Small	Dsl	68	40 RUNEX	15 CH4	0.000798141	13	0%
2043 Annual	Santa Clara (SF)	T6 OOS Small	Dsl	68	40 RUNEX	20 CH4	0.000542171	17	0%
2043 Annual	Santa Clara (SF)	T6 OOS Small	Dsl	68	40 RUNEX	25 CH4	0.000425775	14	0%
2043 Annual	Santa Clara (SF)	T6 OOS Small	Dsl	68	40 RUNEX	30 CH4	0.000344367	9	0%
2043 Annual	Santa Clara (SF)	T6 OOS Small	Dsl	68	40 RUNEX	35 CH4	0.000283608	13	0%
2043 Annual	Santa Clara (SF)	T6 OOS Small	Dsl	68	40 RUNEX	40 CH4	0.000243497	13	0%
2043 Annual	Santa Clara (SF)	T6 OOS Small	Dsl	68	40 RUNEX	45 CH4	0.000224035	16	0%
2043 Annual	Santa Clara (SF)	T6 OOS Small	Dsl	68	40 RUNEX	50 CH4	0.000225222	22	0%
2043 Annual	Santa Clara (SF)	T6 OOS Small	Dsl	68	40 RUNEX	55 CH4	0.000247057	51	0%
2043 Annual	Santa Clara (SF)	T6 OOS Small	Dsl	68	40 RUNEX	60 CH4	0.000289541	178	0%
2043 Annual	Santa Clara (SF)	T6 OOS Small	Dsl	68	40 RUNEX	65 CH4	0.000352673	344	0%
2043 Annual	Santa Clara (SF)	T6 OOS Small	Dsl	68	40 RUNEX	70 CH4	0.000436301	4	0%
2043 Annual	Santa Clara (SF)	T6 OOS Small	Dsl	68	40 RUNEX	75 CH4	0.000540539	0	0%
2043 Annual	Santa Clara (SF)	T6 OOS Small	Dsl	68	40 RUNEX	80 CH4	0.000665388	0	0%

2043 Annual	Santa Clara (SF)	T6 OOS Small	Dsl	68	40 RUNEX	85 CH4	0.000810847	0	0%
2043 Annual	Santa Clara (SF)	T6 OOS Small	Dsl	68	40 RUNEX	90 CH4	0.000976918	0	0%
2043 Annual	Santa Clara (SF)	T6 Public	Dsl	68	40 RUNEX	5 CH4	0.002766845	584	0%
2043 Annual	Santa Clara (SF)	T6 Public	Dsl	68	40 RUNEX	10 CH4	0.001841731	1111	0%
2043 Annual	Santa Clara (SF)	T6 Public	Dsl	68	40 RUNEX	15 CH4	0.001038985	888	0%
2043 Annual	Santa Clara (SF)	T6 Public	Dsl	68	40 RUNEX	20 CH4	0.000674031	663	0%
2043 Annual	Santa Clara (SF)	T6 Public	Dsl	68	40 RUNEX	25 CH4	0.000519809	939	0%
2043 Annual	Santa Clara (SF)	T6 Public	Dsl	68	40 RUNEX	30 CH4	0.00041576	1304	0%
2043 Annual	Santa Clara (SF)	T6 Public	Dsl	68	40 RUNEX	35 CH4	0.000337791	1664	0%
2043 Annual	Santa Clara (SF)	T6 Public	Dsl	68	40 RUNEX	40 CH4	0.00028445	1913	0%
2043 Annual	Santa Clara (SF)	T6 Public	Dsl	68	40 RUNEX	45 CH4	0.000254666	1772	0%
2043 Annual	Santa Clara (SF)	T6 Public	Dsl	68	40 RUNEX	50 CH4	0.000247649	1275	0%
2043 Annual	Santa Clara (SF)	T6 Public	Dsl	68	40 RUNEX	55 CH4	0.000262817	1501	0%
2043 Annual	Santa Clara (SF)	T6 Public	Dsl	68	40 RUNEX	60 CH4	0.000299885	1724	0%
2043 Annual	Santa Clara (SF)	T6 Public	Dsl	68	40 RUNEX	65 CH4	0.000356341	733	0%
2043 Annual	Santa Clara (SF)	T6 Public	Dsl	68	40 RUNEX	70 CH4	0.000428376	311	0%
2043 Annual	Santa Clara (SF)	T6 Public	Dsl	68	40 RUNEX	75 CH4	0.000518166	76	0%
2043 Annual	Santa Clara (SF)	T6 Public	Dsl	68	40 RUNEX	80 CH4	0.000625709	0	0%
2043 Annual	Santa Clara (SF)	T6 Public	Dsl	68	40 RUNEX	85 CH4	0.000751006	0	0%
2043 Annual	Santa Clara (SF)	T6 Public	Dsl	68	40 RUNEX	90 CH4	0.000894058	0	0%
2043 Annual	Santa Clara (SF)	T6 Utility	Dsl	68	40 RUNEX	5 CH4	0.00193006	39	0%
2043 Annual	Santa Clara (SF)	T6 Utility	Dsl	68	40 RUNEX	10 CH4	0.00121113	139	0%
2043 Annual	Santa Clara (SF)	T6 Utility	Dsl	68	40 RUNEX	15 CH4	0.000673321	148	0%
2043 Annual	Santa Clara (SF)	T6 Utility	Dsl	68	40 RUNEX	20 CH4	0.000457382	125	0%
2043 Annual	Santa Clara (SF)	T6 Utility	Dsl	68	40 RUNEX	25 CH4	0.000359189	149	0%
2043 Annual	Santa Clara (SF)	T6 Utility	Dsl	68	40 RUNEX	30 CH4	0.000290512	193	0%
2043 Annual	Santa Clara (SF)	T6 Utility	Dsl	68	40 RUNEX	35 CH4	0.000239255	235	0%
2043 Annual	Santa Clara (SF)	T6 Utility	Dsl	68	40 RUNEX	40 CH4	0.000205417	309	0%
2043 Annual	Santa Clara (SF)	T6 Utility	Dsl	68	40 RUNEX	45 CH4	0.000188998	318	0%
2043 Annual	Santa Clara (SF)	T6 Utility	Dsl	68	40 RUNEX	50 CH4	0.00019	295	0%
2043 Annual	Santa Clara (SF)	T6 Utility	Dsl	68	40 RUNEX	55 CH4	0.00020842	458	0%
2043 Annual	Santa Clara (SF)	T6 Utility	Dsl	68	40 RUNEX	60 CH4	0.00024426	310	0%
2043 Annual	Santa Clara (SF)	T6 Utility	Dsl	68	40 RUNEX	65 CH4	0.000297519	2	0%
2043 Annual	Santa Clara (SF)	T6 Utility	Dsl	68	40 RUNEX	70 CH4	0.000368198	0	0%
2043 Annual	Santa Clara (SF)	T6 Utility	Dsl	68	40 RUNEX	75 CH4	0.000456297	0	0%
2043 Annual	Santa Clara (SF)	T6 Utility	Dsl	68	40 RUNEX	80 CH4	0.000561814	0	0%
2043 Annual	Santa Clara (SF)	T6 Utility	Dsl	68	40 RUNEX	85 CH4	0.000684752	0	0%
2043 Annual	Santa Clara (SF)	T6 Utility	Dsl	68	40 RUNEX	90 CH4	0.000825108	0	0%
2043 Annual	Santa Clara (SF)	T6TS	Gas	68	40 RUNEX	5 CH4	0.017296529	980	0%
2043 Annual	Santa Clara (SF)	T6TS	Gas	68	40 RUNEX	10 CH4	0.011588587	5159	0%
2043 Annual	Santa Clara (SF)	T6TS	Gas	68	40 RUNEX	15 CH4	0.008131787	5819	0%
2043 Annual	Santa Clara (SF)	T6TS	Gas	68	40 RUNEX	20 CH4	0.005976218	6358	0%
2043 Annual	Santa Clara (SF)	T6TS	Gas	68	40 RUNEX	25 CH4	0.004599925	7182	0%
2043 Annual	Santa Clara (SF)	T6TS	Gas	68	40 RUNEX	30 CH4	0.003708156	7807	0%
2043 Annual	Santa Clara (SF)	T6TS	Gas	68	40 RUNEX	35 CH4	0.003130762	11203	0%
2043 Annual	Santa Clara (SF)	T6TS	Gas	68	40 RUNEX	40 CH4	0.002768384	14791	0%
2043 Annual	Santa Clara (SF)	T6TS	Gas	68	40 RUNEX	45 CH4	0.002563814	12918	0%
2043 Annual	Santa Clara (SF)	T6TS	Gas	68	40 RUNEX	50 CH4	0.002486745	12582	0%
2043 Annual	Santa Clara (SF)	T6TS	Gas	68	40 RUNEX	55 CH4	0.002526155	14159	0%
2043 Annual	Santa Clara (SF)	T6TS	Gas	68	40 RUNEX	60 CH4	0.002687648	14955	0%
2043 Annual	Santa Clara (SF)	T6TS	Gas	68	40 RUNEX	65 CH4	0.002994811	1950	0%
2043 Annual	Santa Clara (SF)	T6TS	Gas	68	40 RUNEX	70 CH4	0.003216618	0	0%
2043 Annual	Santa Clara (SF)	T6TS	Gas	68	40 RUNEX	75 CH4	0.003216618	0	0%
2043 Annual	Santa Clara (SF)	T6TS	Gas	68	40 RUNEX	80 CH4	0.003216618	0	0%
2043 Annual	Santa Clara (SF)	T6TS	Gas	68	40 RUNEX	85 CH4	0.003216618	0	0%
2043 Annual	Santa Clara (SF)	T6TS	Gas	68	40 RUNEX	90 CH4	0.003216618	0	0%
2043 Annual	Santa Clara (SF)	T7 CAIRP	Dsl	68	40 RUNEX	5 CH4	0.00573456	1716	0%
2043 Annual	Santa Clara (SF)	T7 CAIRP	Dsl	68	40 RUNEX	10 CH4	0.003598489	3901	0%
2043 Annual	Santa Clara (SF)	T7 CAIRP	Dsl	68	40 RUNEX	15 CH4	0.00200056	3648	0%
2043 Annual	Santa Clara (SF)	T7 CAIRP	Dsl	68	40 RUNEX	20 CH4	0.001358965	5330	0%
2043 Annual	Santa Clara (SF)	T7 CAIRP	Dsl	68	40 RUNEX	25 CH4	0.001067215	4688	0%
2043 Annual	Santa Clara (SF)	T7 CAIRP	Dsl	68	40 RUNEX	30 CH4	0.000863164	2591	0%
2043 Annual	Santa Clara (SF)	T7 CAIRP	Dsl	68	40 RUNEX	35 CH4	0.000710869	3464	0%
2043 Annual	Santa Clara (SF)	T7 CAIRP	Dsl	68	40 RUNEX	40 CH4	0.000610331	3207	0%
2043 Annual	Santa Clara (SF)	T7 CAIRP	Dsl	68	40 RUNEX	45 CH4	0.000561549	4272	0%
2043 Annual	Santa Clara (SF)	T7 CAIRP	Dsl	68	40 RUNEX	50 CH4	0.000564523	6287	0%
2043 Annual	Santa Clara (SF)	T7 CAIRP	Dsl	68	40 RUNEX	55 CH4	0.000619254	15094	0%
2043 Annual	Santa Clara (SF)	T7 CAIRP	Dsl	68	40 RUNEX	60 CH4	0.000725741	55080	0%
2043 Annual	Santa Clara (SF)	T7 CAIRP	Dsl	68	40 RUNEX	65 CH4	0.000883984	100914	0%
2043 Annual	Santa Clara (SF)	T7 CAIRP	Dsl	68	40 RUNEX	70 CH4	0.001093552	1240	0%
2043 Annual	Santa Clara (SF)	T7 CAIRP	Dsl	68	40 RUNEX	75 CH4	0.00135477	0	0%
2043 Annual	Santa Clara (SF)	T7 CAIRP	Dsl	68	40 RUNEX	80 CH4	0.001667638	0	0%

2043 Annual	Santa Clara (SF)	T7 CAIRP	Dsl	68	40 RUNEX	85 CH4	0.002032156	0	0%
2043 Annual	Santa Clara (SF)	T7 CAIRP	Dsl	68	40 RUNEX	90 CH4	0.002448323	0	0%
2043 Annual	Santa Clara (SF)	T7 CAIRP Construction	Dsl	68	40 RUNEX	5 CH4	0.00577364	2444	0%
2043 Annual	Santa Clara (SF)	T7 CAIRP Construction	Dsl	68	40 RUNEX	10 CH4	0.003623012	1681	0%
2043 Annual	Santa Clara (SF)	T7 CAIRP Construction	Dsl	68	40 RUNEX	15 CH4	0.002014194	357	0%
2043 Annual	Santa Clara (SF)	T7 CAIRP Construction	Dsl	68	40 RUNEX	20 CH4	0.001368226	356	0%
2043 Annual	Santa Clara (SF)	T7 CAIRP Construction	Dsl	68	40 RUNEX	25 CH4	0.001074488	480	0%
2043 Annual	Santa Clara (SF)	T7 CAIRP Construction	Dsl	68	40 RUNEX	30 CH4	0.000869046	576	0%
2043 Annual	Santa Clara (SF)	T7 CAIRP Construction	Dsl	68	40 RUNEX	35 CH4	0.000715714	744	0%
2043 Annual	Santa Clara (SF)	T7 CAIRP Construction	Dsl	68	40 RUNEX	40 CH4	0.00061449	954	0%
2043 Annual	Santa Clara (SF)	T7 CAIRP Construction	Dsl	68	40 RUNEX	45 CH4	0.000565376	1159	0%
2043 Annual	Santa Clara (SF)	T7 CAIRP Construction	Dsl	68	40 RUNEX	50 CH4	0.00056837	1165	0%
2043 Annual	Santa Clara (SF)	T7 CAIRP Construction	Dsl	68	40 RUNEX	55 CH4	0.000623474	1421	0%
2043 Annual	Santa Clara (SF)	T7 CAIRP Construction	Dsl	68	40 RUNEX	60 CH4	0.000730687	5215	0%
2043 Annual	Santa Clara (SF)	T7 CAIRP Construction	Dsl	68	40 RUNEX	65 CH4	0.000890008	2557	0%
2043 Annual	Santa Clara (SF)	T7 CAIRP Construction	Dsl	68	40 RUNEX	70 CH4	0.001101062	571	0%
2043 Annual	Santa Clara (SF)	T7 CAIRP Construction	Dsl	68	40 RUNEX	75 CH4	0.001364131	453	0%
2043 Annual	Santa Clara (SF)	T7 CAIRP Construction	Dsl	68	40 RUNEX	80 CH4	0.001679216	0	0%
2043 Annual	Santa Clara (SF)	T7 CAIRP Construction	Dsl	68	40 RUNEX	85 CH4	0.002046318	0	0%
2043 Annual	Santa Clara (SF)	T7 CAIRP Construction	Dsl	68	40 RUNEX	90 CH4	0.002465435	0	0%
2043 Annual	Santa Clara (SF)	T7 NNOOS	Dsl	68	40 RUNEX	5 CH4	0.005384859	2092	0%
2043 Annual	Santa Clara (SF)	T7 NNOOS	Dsl	68	40 RUNEX	10 CH4	0.003379048	4756	0%
2043 Annual	Santa Clara (SF)	T7 NNOOS	Dsl	68	40 RUNEX	15 CH4	0.001878563	4447	0%
2043 Annual	Santa Clara (SF)	T7 NNOOS	Dsl	68	40 RUNEX	20 CH4	0.001276093	6498	0%
2043 Annual	Santa Clara (SF)	T7 NNOOS	Dsl	68	40 RUNEX	25 CH4	0.001002135	5715	0%
2043 Annual	Santa Clara (SF)	T7 NNOOS	Dsl	68	40 RUNEX	30 CH4	0.000810527	3159	0%
2043 Annual	Santa Clara (SF)	T7 NNOOS	Dsl	68	40 RUNEX	35 CH4	0.000667519	4223	0%
2043 Annual	Santa Clara (SF)	T7 NNOOS	Dsl	68	40 RUNEX	40 CH4	0.000573112	3909	0%
2043 Annual	Santa Clara (SF)	T7 NNOOS	Dsl	68	40 RUNEX	45 CH4	0.000527305	5207	0%
2043 Annual	Santa Clara (SF)	T7 NNOOS	Dsl	68	40 RUNEX	50 CH4	0.000530098	7665	0%
2043 Annual	Santa Clara (SF)	T7 NNOOS	Dsl	68	40 RUNEX	55 CH4	0.000581491	18400	0%
2043 Annual	Santa Clara (SF)	T7 NNOOS	Dsl	68	40 RUNEX	60 CH4	0.000681484	67144	0%
2043 Annual	Santa Clara (SF)	T7 NNOOS	Dsl	68	40 RUNEX	65 CH4	0.000830078	123017	0%
2043 Annual	Santa Clara (SF)	T7 NNOOS	Dsl	68	40 RUNEX	70 CH4	0.001026908	1512	0%
2043 Annual	Santa Clara (SF)	T7 NNOOS	Dsl	68	40 RUNEX	75 CH4	0.001272249	0	0%
2043 Annual	Santa Clara (SF)	T7 NNOOS	Dsl	68	40 RUNEX	80 CH4	0.001566101	0	0%
2043 Annual	Santa Clara (SF)	T7 NNOOS	Dsl	68	40 RUNEX	85 CH4	0.001908464	0	0%
2043 Annual	Santa Clara (SF)	T7 NNOOS	Dsl	68	40 RUNEX	90 CH4	0.002299337	0	0%
2043 Annual	Santa Clara (SF)	T7 NOOS	Dsl	68	40 RUNEX	5 CH4	0.005741413	674	0%
2043 Annual	Santa Clara (SF)	T7 NOOS	Dsl	68	40 RUNEX	10 CH4	0.003602789	1533	0%
2043 Annual	Santa Clara (SF)	T7 NOOS	Dsl	68	40 RUNEX	15 CH4	0.002002951	1433	0%
2043 Annual	Santa Clara (SF)	T7 NOOS	Dsl	68	40 RUNEX	20 CH4	0.001360588	2094	0%
2043 Annual	Santa Clara (SF)	T7 NOOS	Dsl	68	40 RUNEX	25 CH4	0.00106849	1842	0%
2043 Annual	Santa Clara (SF)	T7 NOOS	Dsl	68	40 RUNEX	30 CH4	0.000864195	1018	0%
2043 Annual	Santa Clara (SF)	T7 NOOS	Dsl	68	40 RUNEX	35 CH4	0.000711719	1361	0%
2043 Annual	Santa Clara (SF)	T7 NOOS	Dsl	68	40 RUNEX	40 CH4	0.00061106	1260	0%
2043 Annual	Santa Clara (SF)	T7 NOOS	Dsl	68	40 RUNEX	45 CH4	0.00056222	1678	0%
2043 Annual	Santa Clara (SF)	T7 NOOS	Dsl	68	40 RUNEX	50 CH4	0.000565198	2470	0%
2043 Annual	Santa Clara (SF)	T7 NOOS	Dsl	68	40 RUNEX	55 CH4	0.000619994	5930	0%
2043 Annual	Santa Clara (SF)	T7 NOOS	Dsl	68	40 RUNEX	60 CH4	0.000726608	21640	0%
2043 Annual	Santa Clara (SF)	T7 NOOS	Dsl	68	40 RUNEX	65 CH4	0.000885041	39648	0%
2043 Annual	Santa Clara (SF)	T7 NOOS	Dsl	68	40 RUNEX	70 CH4	0.001094826	487	0%
2043 Annual	Santa Clara (SF)	T7 NOOS	Dsl	68	40 RUNEX	75 CH4	0.001356315	0	0%
2043 Annual	Santa Clara (SF)	T7 NOOS	Dsl	68	40 RUNEX	80 CH4	0.001669508	0	0%
2043 Annual	Santa Clara (SF)	T7 NOOS	Dsl	68	40 RUNEX	85 CH4	0.002034404	0	0%
2043 Annual	Santa Clara (SF)	T7 NOOS	Dsl	68	40 RUNEX	90 CH4	0.002451004	0	0%
2043 Annual	Santa Clara (SF)	T7 Other Port	Dsl	68	40 RUNEX	5 CH4	0.006090388	1106	0%
2043 Annual	Santa Clara (SF)	T7 Other Port	Dsl	68	40 RUNEX	10 CH4	0.003821774	2012	0%
2043 Annual	Santa Clara (SF)	T7 Other Port	Dsl	68	40 RUNEX	15 CH4	0.002124695	1860	0%
2043 Annual	Santa Clara (SF)	T7 Other Port	Dsl	68	40 RUNEX	20 CH4	0.001443288	1438	0%
2043 Annual	Santa Clara (SF)	T7 Other Port	Dsl	68	40 RUNEX	25 CH4	0.001133435	1495	0%
2043 Annual	Santa Clara (SF)	T7 Other Port	Dsl	68	40 RUNEX	30 CH4	0.000916723	1852	0%
2043 Annual	Santa Clara (SF)	T7 Other Port	Dsl	68	40 RUNEX	35 CH4	0.000754978	2286	0%
2043 Annual	Santa Clara (SF)	T7 Other Port	Dsl	68	40 RUNEX	40 CH4	0.000648202	2837	0%
2043 Annual	Santa Clara (SF)	T7 Other Port	Dsl	68	40 RUNEX	45 CH4	0.000596393	2969	0%
2043 Annual	Santa Clara (SF)	T7 Other Port	Dsl	68	40 RUNEX	50 CH4	0.000599552	3018	0%
2043 Annual	Santa Clara (SF)	T7 Other Port	Dsl	68	40 RUNEX	55 CH4	0.000657678	2646	0%
2043 Annual	Santa Clara (SF)	T7 Other Port	Dsl	68	40 RUNEX	60 CH4	0.000770773	1747	0%
2043 Annual	Santa Clara (SF)	T7 Other Port	Dsl	68	40 RUNEX	65 CH4	0.000938835	687	0%
2043 Annual	Santa Clara (SF)	T7 Other Port	Dsl	68	40 RUNEX	70 CH4	0.001161865	16	0%
2043 Annual	Santa Clara (SF)	T7 Other Port	Dsl	68	40 RUNEX	75 CH4	0.001439863	0	0%
2043 Annual	Santa Clara (SF)	T7 Other Port	Dsl	68	40 RUNEX	80 CH4	0.001772829	0	0%



2043 Annual	Santa Clara (SF)	T7 Other Port	Dsl	68	40 RUNEX	85 CH4	0.002160763	0	0%
2043 Annual	Santa Clara (SF)	T7 Other Port	Dsl	68	40 RUNEX	90 CH4	0.002603664	0	0%
2043 Annual	Santa Clara (SF)	T7 POAK	Dsl	68	40 RUNEX	5 CH4	0.006136057	9534	0%
2043 Annual	Santa Clara (SF)	T7 POAK	Dsl	68	40 RUNEX	10 CH4	0.003850432	17342	0%
2043 Annual	Santa Clara (SF)	T7 POAK	Dsl	68	40 RUNEX	15 CH4	0.002140627	16034	0%
2043 Annual	Santa Clara (SF)	T7 POAK	Dsl	68	40 RUNEX	20 CH4	0.001454111	12398	0%
2043 Annual	Santa Clara (SF)	T7 POAK	Dsl	68	40 RUNEX	25 CH4	0.001141934	12885	0%
2043 Annual	Santa Clara (SF)	T7 POAK	Dsl	68	40 RUNEX	30 CH4	0.000923597	15967	0%
2043 Annual	Santa Clara (SF)	T7 POAK	Dsl	68	40 RUNEX	35 CH4	0.00076064	19711	0%
2043 Annual	Santa Clara (SF)	T7 POAK	Dsl	68	40 RUNEX	40 CH4	0.000653062	24459	0%
2043 Annual	Santa Clara (SF)	T7 POAK	Dsl	68	40 RUNEX	45 CH4	0.000600865	25598	0%
2043 Annual	Santa Clara (SF)	T7 POAK	Dsl	68	40 RUNEX	50 CH4	0.000604047	26016	0%
2043 Annual	Santa Clara (SF)	T7 POAK	Dsl	68	40 RUNEX	55 CH4	0.00066261	22813	0%
2043 Annual	Santa Clara (SF)	T7 POAK	Dsl	68	40 RUNEX	60 CH4	0.000776553	15057	0%
2043 Annual	Santa Clara (SF)	T7 POAK	Dsl	68	40 RUNEX	65 CH4	0.000945875	5923	0%
2043 Annual	Santa Clara (SF)	T7 POAK	Dsl	68	40 RUNEX	70 CH4	0.001170578	135	0%
2043 Annual	Santa Clara (SF)	T7 POAK	Dsl	68	40 RUNEX	75 CH4	0.00145066	0	0%
2043 Annual	Santa Clara (SF)	T7 POAK	Dsl	68	40 RUNEX	80 CH4	0.001786123	0	0%
2043 Annual	Santa Clara (SF)	T7 POAK	Dsl	68	40 RUNEX	85 CH4	0.002176965	0	0%
2043 Annual	Santa Clara (SF)	T7 POAK	Dsl	68	40 RUNEX	90 CH4	0.002623188	0	0%
2043 Annual	Santa Clara (SF)	T7 Public	Dsl	68	40 RUNEX	5 CH4	0.010379866	316	0%
2043 Annual	Santa Clara (SF)	T7 Public	Dsl	68	40 RUNEX	10 CH4	0.00747383	554	0%
2043 Annual	Santa Clara (SF)	T7 Public	Dsl	68	40 RUNEX	15 CH4	0.004354154	426	0%
2043 Annual	Santa Clara (SF)	T7 Public	Dsl	68	40 RUNEX	20 CH4	0.002714854	318	0%
2043 Annual	Santa Clara (SF)	T7 Public	Dsl	68	40 RUNEX	25 CH4	0.002033818	529	0%
2043 Annual	Santa Clara (SF)	T7 Public	Dsl	68	40 RUNEX	30 CH4	0.001586627	859	0%
2043 Annual	Santa Clara (SF)	T7 Public	Dsl	68	40 RUNEX	35 CH4	0.001252095	1008	0%
2043 Annual	Santa Clara (SF)	T7 Public	Dsl	68	40 RUNEX	40 CH4	0.001015024	1053	0%
2043 Annual	Santa Clara (SF)	T7 Public	Dsl	68	40 RUNEX	45 CH4	0.000864215	1105	0%
2043 Annual	Santa Clara (SF)	T7 Public	Dsl	68	40 RUNEX	50 CH4	0.000791415	724	0%
2043 Annual	Santa Clara (SF)	T7 Public	Dsl	68	40 RUNEX	55 CH4	0.000790541	722	0%
2043 Annual	Santa Clara (SF)	T7 Public	Dsl	68	40 RUNEX	60 CH4	0.000857214	847	0%
2043 Annual	Santa Clara (SF)	T7 Public	Dsl	68	40 RUNEX	65 CH4	0.000967424	378	0%
2043 Annual	Santa Clara (SF)	T7 Public	Dsl	68	40 RUNEX	70 CH4	0.001101216	207	0%
2043 Annual	Santa Clara (SF)	T7 Public	Dsl	68	40 RUNEX	75 CH4	0.001267982	60	0%
2043 Annual	Santa Clara (SF)	T7 Public	Dsl	68	40 RUNEX	80 CH4	0.001467722	0	0%
2043 Annual	Santa Clara (SF)	T7 Public	Dsl	68	40 RUNEX	85 CH4	0.001700437	0	0%
2043 Annual	Santa Clara (SF)	T7 Public	Dsl	68	40 RUNEX	90 CH4	0.001966126	0	0%
2043 Annual	Santa Clara (SF)	T7 Single	Dsl	68	40 RUNEX	5 CH4	0.005211185	751	0%
2043 Annual	Santa Clara (SF)	T7 Single	Dsl	68	40 RUNEX	10 CH4	0.003270066	1751	0%
2043 Annual	Santa Clara (SF)	T7 Single	Dsl	68	40 RUNEX	15 CH4	0.001817975	2177	0%
2043 Annual	Santa Clara (SF)	T7 Single	Dsl	68	40 RUNEX	20 CH4	0.001234936	2782	0%
2043 Annual	Santa Clara (SF)	T7 Single	Dsl	68	40 RUNEX	25 CH4	0.000969814	3824	0%
2043 Annual	Santa Clara (SF)	T7 Single	Dsl	68	40 RUNEX	30 CH4	0.000784386	4820	0%
2043 Annual	Santa Clara (SF)	T7 Single	Dsl	68	40 RUNEX	35 CH4	0.00064599	4155	0%
2043 Annual	Santa Clara (SF)	T7 Single	Dsl	68	40 RUNEX	40 CH4	0.000554628	2661	0%
2043 Annual	Santa Clara (SF)	T7 Single	Dsl	68	40 RUNEX	45 CH4	0.000510298	2132	0%
2043 Annual	Santa Clara (SF)	T7 Single	Dsl	68	40 RUNEX	50 CH4	0.000513001	5040	0%
2043 Annual	Santa Clara (SF)	T7 Single	Dsl	68	40 RUNEX	55 CH4	0.000562736	12975	0%
2043 Annual	Santa Clara (SF)	T7 Single	Dsl	68	40 RUNEX	60 CH4	0.000659505	9355	0%
2043 Annual	Santa Clara (SF)	T7 Single	Dsl	68	40 RUNEX	65 CH4	0.000803306	2991	0%
2043 Annual	Santa Clara (SF)	T7 Single	Dsl	68	40 RUNEX	70 CH4	0.000977578	261	0%
2043 Annual	Santa Clara (SF)	T7 Single	Dsl	68	40 RUNEX	75 CH4	0.0011948	10	0%
2043 Annual	Santa Clara (SF)	T7 Single	Dsl	68	40 RUNEX	80 CH4	0.001454974	0	0%
2043 Annual	Santa Clara (SF)	T7 Single	Dsl	68	40 RUNEX	85 CH4	0.001758098	0	0%
2043 Annual	Santa Clara (SF)	T7 Single	Dsl	68	40 RUNEX	90 CH4	0.002104173	0	0%
2043 Annual	Santa Clara (SF)	T7 Single Construction	Dsl	68	40 RUNEX	5 CH4	0.005095794	6063	0%
2043 Annual	Santa Clara (SF)	T7 Single Construction	Dsl	68	40 RUNEX	10 CH4	0.003206309	4170	0%
2043 Annual	Santa Clara (SF)	T7 Single Construction	Dsl	68	40 RUNEX	15 CH4	0.001781463	886	0%
2043 Annual	Santa Clara (SF)	T7 Single Construction	Dsl	68	40 RUNEX	20 CH4	0.001205586	883	0%
2043 Annual	Santa Clara (SF)	T7 Single Construction	Dsl	68	40 RUNEX	25 CH4	0.00094613	1190	0%
2043 Annual	Santa Clara (SF)	T7 Single Construction	Dsl	68	40 RUNEX	30 CH4	0.000765199	1429	0%
2043 Annual	Santa Clara (SF)	T7 Single Construction	Dsl	68	40 RUNEX	35 CH4	0.0006301	1845	0%
2043 Annual	Santa Clara (SF)	T7 Single Construction	Dsl	68	40 RUNEX	40 CH4	0.000540788	2366	0%
2043 Annual	Santa Clara (SF)	T7 Single Construction	Dsl	68	40 RUNEX	45 CH4	0.000497228	2875	0%
2043 Annual	Santa Clara (SF)	T7 Single Construction	Dsl	68	40 RUNEX	50 CH4	0.000499397	2889	0%
2043 Annual	Santa Clara (SF)	T7 Single Construction	Dsl	68	40 RUNEX	55 CH4	0.000547274	3525	0%
2043 Annual	Santa Clara (SF)	T7 Single Construction	Dsl	68	40 RUNEX	60 CH4	0.000640732	12938	0%
2043 Annual	Santa Clara (SF)	T7 Single Construction	Dsl	68	40 RUNEX	65 CH4	0.000779551	6343	0%
2043 Annual	Santa Clara (SF)	T7 Single Construction	Dsl	68	40 RUNEX	70 CH4	0.000956811	1416	0%
2043 Annual	Santa Clara (SF)	T7 Single Construction	Dsl	68	40 RUNEX	75 CH4	0.00117776	1124	0%
2043 Annual	Santa Clara (SF)	T7 Single Construction	Dsl	68	40 RUNEX	80 CH4	0.001442396	0	0%

2043 Annual	Santa Clara (SF)	T7 Single Construction	Dsl	68	40 RUNEX	85 CH4	0.001750719	0	0%
2043 Annual	Santa Clara (SF)	T7 Single Construction	Dsl	68	40 RUNEX	90 CH4	0.00210273	0	0%
2043 Annual	Santa Clara (SF)	T7 SWCV	Dsl	68	40 RUNEX	5 CH4	0.00732407	56	0%
2043 Annual	Santa Clara (SF)	T7 SWCV	Dsl	68	40 RUNEX	10 CH4	0.005356795	145	0%
2043 Annual	Santa Clara (SF)	T7 SWCV	Dsl	68	40 RUNEX	15 CH4	0.003436931	155	0%
2043 Annual	Santa Clara (SF)	T7 SWCV	Dsl	68	40 RUNEX	20 CH4	0.002405834	131	0%
2043 Annual	Santa Clara (SF)	T7 SWCV	Dsl	68	40 RUNEX	25 CH4	0.001804042	159	0%
2043 Annual	Santa Clara (SF)	T7 SWCV	Dsl	68	40 RUNEX	30 CH4	0.001376869	165	0%
2043 Annual	Santa Clara (SF)	T7 SWCV	Dsl	68	40 RUNEX	35 CH4	0.001060197	180	0%
2043 Annual	Santa Clara (SF)	T7 SWCV	Dsl	68	40 RUNEX	40 CH4	0.000832404	197	0%
2043 Annual	Santa Clara (SF)	T7 SWCV	Dsl	68	40 RUNEX	45 CH4	0.000677557	218	0%
2043 Annual	Santa Clara (SF)	T7 SWCV	Dsl	68	40 RUNEX	50 CH4	0.000583914	202	0%
2043 Annual	Santa Clara (SF)	T7 SWCV	Dsl	68	40 RUNEX	55 CH4	0.000542822	161	0%
2043 Annual	Santa Clara (SF)	T7 SWCV	Dsl	68	40 RUNEX	60 CH4	0.00057154	232	0%
2043 Annual	Santa Clara (SF)	T7 SWCV	Dsl	68	40 RUNEX	65 CH4	0.000655337	44	0%
2043 Annual	Santa Clara (SF)	T7 SWCV	Dsl	68	40 RUNEX	70 CH4	0.000657573	0	0%
2043 Annual	Santa Clara (SF)	T7 SWCV	Dsl	68	40 RUNEX	75 CH4	0.000660359	0	0%
2043 Annual	Santa Clara (SF)	T7 SWCV	Dsl	68	40 RUNEX	80 CH4	0.000663696	0	0%
2043 Annual	Santa Clara (SF)	T7 SWCV	Dsl	68	40 RUNEX	85 CH4	0.000667584	0	0%
2043 Annual	Santa Clara (SF)	T7 SWCV	Dsl	68	40 RUNEX	90 CH4	0.000672023	0	0%
2043 Annual	Santa Clara (SF)	T7 SWCV	NG	68	40 RUNEX	5 CH4	12.61649637	456	0%
2043 Annual	Santa Clara (SF)	T7 SWCV	NG	68	40 RUNEX	10 CH4	10.20117638	1192	0%
2043 Annual	Santa Clara (SF)	T7 SWCV	NG	68	40 RUNEX	15 CH4	7.140590679	1275	0%
2043 Annual	Santa Clara (SF)	T7 SWCV	NG	68	40 RUNEX	20 CH4	5.135831547	1072	0%
2043 Annual	Santa Clara (SF)	T7 SWCV	NG	68	40 RUNEX	25 CH4	3.764093071	1301	0%
2043 Annual	Santa Clara (SF)	T7 SWCV	NG	68	40 RUNEX	30 CH4	2.77737954	1354	0%
2043 Annual	Santa Clara (SF)	T7 SWCV	NG	68	40 RUNEX	35 CH4	2.04984214	1474	0%
2043 Annual	Santa Clara (SF)	T7 SWCV	NG	68	40 RUNEX	40 CH4	1.513651181	1616	0%
2043 Annual	Santa Clara (SF)	T7 SWCV	NG	68	40 RUNEX	45 CH4	1.118821058	1788	0%
2043 Annual	Santa Clara (SF)	T7 SWCV	NG	68	40 RUNEX	50 CH4	0.828515978	1655	0%
2043 Annual	Santa Clara (SF)	T7 SWCV	NG	68	40 RUNEX	55 CH4	0.615590611	1318	0%
2043 Annual	Santa Clara (SF)	T7 SWCV	NG	68	40 RUNEX	60 CH4	0.531670175	1906	0%
2043 Annual	Santa Clara (SF)	T7 SWCV	NG	68	40 RUNEX	65 CH4	0.531670175	364	0%
2043 Annual	Santa Clara (SF)	T7 SWCV	NG	68	40 RUNEX	70 CH4	0.531670175	0	0%
2043 Annual	Santa Clara (SF)	T7 SWCV	NG	68	40 RUNEX	75 CH4	0.531670175	0	0%
2043 Annual	Santa Clara (SF)	T7 SWCV	NG	68	40 RUNEX	80 CH4	0.531670175	0	0%
2043 Annual	Santa Clara (SF)	T7 SWCV	NG	68	40 RUNEX	85 CH4	0.531670175	0	0%
2043 Annual	Santa Clara (SF)	T7 SWCV	NG	68	40 RUNEX	90 CH4	0.531670175	0	0%
2043 Annual	Santa Clara (SF)	T7 Tractor	Dsl	68	40 RUNEX	5 CH4	0.005744461	1612	0%
2043 Annual	Santa Clara (SF)	T7 Tractor	Dsl	68	40 RUNEX	10 CH4	0.003604702	3442	0%
2043 Annual	Santa Clara (SF)	T7 Tractor	Dsl	68	40 RUNEX	15 CH4	0.002004014	4389	0%
2043 Annual	Santa Clara (SF)	T7 Tractor	Dsl	68	40 RUNEX	20 CH4	0.001361311	5015	0%
2043 Annual	Santa Clara (SF)	T7 Tractor	Dsl	68	40 RUNEX	25 CH4	0.001069058	6100	0%
2043 Annual	Santa Clara (SF)	T7 Tractor	Dsl	68	40 RUNEX	30 CH4	0.000864654	7704	0%
2043 Annual	Santa Clara (SF)	T7 Tractor	Dsl	68	40 RUNEX	35 CH4	0.000712097	8986	0%
2043 Annual	Santa Clara (SF)	T7 Tractor	Dsl	68	40 RUNEX	40 CH4	0.000611385	11254	0%
2043 Annual	Santa Clara (SF)	T7 Tractor	Dsl	68	40 RUNEX	45 CH4	0.000562518	13264	0%
2043 Annual	Santa Clara (SF)	T7 Tractor	Dsl	68	40 RUNEX	50 CH4	0.000565498	20152	0%
2043 Annual	Santa Clara (SF)	T7 Tractor	Dsl	68	40 RUNEX	55 CH4	0.000620323	45242	0%
2043 Annual	Santa Clara (SF)	T7 Tractor	Dsl	68	40 RUNEX	60 CH4	0.000726994	142439	0%
2043 Annual	Santa Clara (SF)	T7 Tractor	Dsl	68	40 RUNEX	65 CH4	0.000885511	98474	0%
2043 Annual	Santa Clara (SF)	T7 Tractor	Dsl	68	40 RUNEX	70 CH4	0.001093797	29744	0%
2043 Annual	Santa Clara (SF)	T7 Tractor	Dsl	68	40 RUNEX	75 CH4	0.001353418	1516	0%
2043 Annual	Santa Clara (SF)	T7 Tractor	Dsl	68	40 RUNEX	80 CH4	0.001664373	0	0%
2043 Annual	Santa Clara (SF)	T7 Tractor	Dsl	68	40 RUNEX	85 CH4	0.002026662	0	0%
2043 Annual	Santa Clara (SF)	T7 Tractor	Dsl	68	40 RUNEX	90 CH4	0.002440285	0	0%
2043 Annual	Santa Clara (SF)	T7 Tractor Construction	Dsl	68	40 RUNEX	5 CH4	0.005974462	5002	0%
2043 Annual	Santa Clara (SF)	T7 Tractor Construction	Dsl	68	40 RUNEX	10 CH4	0.003751318	3440	0%
2043 Annual	Santa Clara (SF)	T7 Tractor Construction	Dsl	68	40 RUNEX	15 CH4	0.002085909	731	0%
2043 Annual	Santa Clara (SF)	T7 Tractor Construction	Dsl	68	40 RUNEX	20 CH4	0.001416316	728	0%
2043 Annual	Santa Clara (SF)	T7 Tractor Construction	Dsl	68	40 RUNEX	25 CH4	0.001112062	982	0%
2043 Annual	Santa Clara (SF)	T7 Tractor Construction	Dsl	68	40 RUNEX	30 CH4	0.000899342	1179	0%
2043 Annual	Santa Clara (SF)	T7 Tractor Construction	Dsl	68	40 RUNEX	35 CH4	0.000740569	1522	0%
2043 Annual	Santa Clara (SF)	T7 Tractor Construction	Dsl	68	40 RUNEX	40 CH4	0.000635708	1952	0%
2043 Annual	Santa Clara (SF)	T7 Tractor Construction	Dsl	68	40 RUNEX	45 CH4	0.000584737	2372	0%
2043 Annual	Santa Clara (SF)	T7 Tractor Construction	Dsl	68	40 RUNEX	50 CH4	0.000587636	2383	0%
2043 Annual	Santa Clara (SF)	T7 Tractor Construction	Dsl	68	40 RUNEX	55 CH4	0.000644392	2908	0%
2043 Annual	Santa Clara (SF)	T7 Tractor Construction	Dsl	68	40 RUNEX	60 CH4	0.000755013	10673	0%
2043 Annual	Santa Clara (SF)	T7 Tractor Construction	Dsl	68	40 RUNEX	65 CH4	0.000919448	5233	0%
2043 Annual	Santa Clara (SF)	T7 Tractor Construction	Dsl	68	40 RUNEX	70 CH4	0.00113352	1168	0%
2043 Annual	Santa Clara (SF)	T7 Tractor Construction	Dsl	68	40 RUNEX	75 CH4	0.001400351	927	0%
2043 Annual	Santa Clara (SF)	T7 Tractor Construction	Dsl	68	40 RUNEX	80 CH4	0.001719943	0	0%

2043 Annual	Santa Clara (SF)	T7 Tractor Construction	Dsl	68	40 RUNEX	85 CH4	0.002092295	0	0%
2043 Annual	Santa Clara (SF)	T7 Tractor Construction	Dsl	68	40 RUNEX	90 CH4	0.002517406	0	0%
2043 Annual	Santa Clara (SF)	T7 Utility	Dsl	68	40 RUNEX	5 CH4	0.004173794	21	0%
2043 Annual	Santa Clara (SF)	T7 Utility	Dsl	68	40 RUNEX	10 CH4	0.002619094	81	0%
2043 Annual	Santa Clara (SF)	T7 Utility	Dsl	68	40 RUNEX	15 CH4	0.001456071	80	0%
2043 Annual	Santa Clara (SF)	T7 Utility	Dsl	68	40 RUNEX	20 CH4	0.000989097	62	0%
2043 Annual	Santa Clara (SF)	T7 Utility	Dsl	68	40 RUNEX	25 CH4	0.000776753	76	0%
2043 Annual	Santa Clara (SF)	T7 Utility	Dsl	68	40 RUNEX	30 CH4	0.000628238	100	0%
2043 Annual	Santa Clara (SF)	T7 Utility	Dsl	68	40 RUNEX	35 CH4	0.000517393	124	0%
2043 Annual	Santa Clara (SF)	T7 Utility	Dsl	68	40 RUNEX	40 CH4	0.000444218	171	0%
2043 Annual	Santa Clara (SF)	T7 Utility	Dsl	68	40 RUNEX	45 CH4	0.000408713	171	0%
2043 Annual	Santa Clara (SF)	T7 Utility	Dsl	68	40 RUNEX	50 CH4	0.000410878	164	0%
2043 Annual	Santa Clara (SF)	T7 Utility	Dsl	68	40 RUNEX	55 CH4	0.000450713	256	0%
2043 Annual	Santa Clara (SF)	T7 Utility	Dsl	68	40 RUNEX	60 CH4	0.000528217	193	0%
2043 Annual	Santa Clara (SF)	T7 Utility	Dsl	68	40 RUNEX	65 CH4	0.000643392	2	0%
2043 Annual	Santa Clara (SF)	T7 Utility	Dsl	68	40 RUNEX	70 CH4	0.000779279	0	0%
2043 Annual	Santa Clara (SF)	T7 Utility	Dsl	68	40 RUNEX	75 CH4	0.000948657	0	0%
2043 Annual	Santa Clara (SF)	T7 Utility	Dsl	68	40 RUNEX	80 CH4	0.001151526	0	0%
2043 Annual	Santa Clara (SF)	T7 Utility	Dsl	68	40 RUNEX	85 CH4	0.001387885	0	0%
2043 Annual	Santa Clara (SF)	T7 Utility	Dsl	68	40 RUNEX	90 CH4	0.001657735	0	0%
2043 Annual	Santa Clara (SF)	T7IS	Gas	68	40 RUNEX	5 CH4	0.370431054	5	0%
2043 Annual	Santa Clara (SF)	T7IS	Gas	68	40 RUNEX	10 CH4	0.248186936	19	0%
2043 Annual	Santa Clara (SF)	T7IS	Gas	68	40 RUNEX	15 CH4	0.174154388	21	0%
2043 Annual	Santa Clara (SF)	T7IS	Gas	68	40 RUNEX	20 CH4	0.127989644	39	0%
2043 Annual	Santa Clara (SF)	T7IS	Gas	68	40 RUNEX	25 CH4	0.098514287	52	0%
2043 Annual	Santa Clara (SF)	T7IS	Gas	68	40 RUNEX	30 CH4	0.079415703	92	0%
2043 Annual	Santa Clara (SF)	T7IS	Gas	68	40 RUNEX	35 CH4	0.067049947	169	0%
2043 Annual	Santa Clara (SF)	T7IS	Gas	68	40 RUNEX	40 CH4	0.059289087	130	0%
2043 Annual	Santa Clara (SF)	T7IS	Gas	68	40 RUNEX	45 CH4	0.054907914	155	0%
2043 Annual	Santa Clara (SF)	T7IS	Gas	68	40 RUNEX	50 CH4	0.053257355	130	0%
2043 Annual	Santa Clara (SF)	T7IS	Gas	68	40 RUNEX	55 CH4	0.054101382	201	0%
2043 Annual	Santa Clara (SF)	T7IS	Gas	68	40 RUNEX	60 CH4	0.057559999	43	0%
2043 Annual	Santa Clara (SF)	T7IS	Gas	68	40 RUNEX	65 CH4	0.064138354	24	0%
2043 Annual	Santa Clara (SF)	T7IS	Gas	68	40 RUNEX	70 CH4	0.068888692	0	0%
2043 Annual	Santa Clara (SF)	T7IS	Gas	68	40 RUNEX	75 CH4	0.068888692	0	0%
2043 Annual	Santa Clara (SF)	T7IS	Gas	68	40 RUNEX	80 CH4	0.068888692	0	0%
2043 Annual	Santa Clara (SF)	T7IS	Gas	68	40 RUNEX	85 CH4	0.068888692	0	0%
2043 Annual	Santa Clara (SF)	T7IS	Gas	68	40 RUNEX	90 CH4	0.068888692	0	0%
2043 Annual	Santa Clara (SF)	UBUS	Dsl	68	40 RUNEX	5 CH4	0.172640065	619	0%
2043 Annual	Santa Clara (SF)	UBUS	Dsl	68	40 RUNEX	10 CH4	0.13231476	2059	0%
2043 Annual	Santa Clara (SF)	UBUS	Dsl	68	40 RUNEX	15 CH4	0.094635384	3493	0%
2043 Annual	Santa Clara (SF)	UBUS	Dsl	68	40 RUNEX	20 CH4	0.075889046	30569	0%
2043 Annual	Santa Clara (SF)	UBUS	Dsl	68	40 RUNEX	25 CH4	0.064353106	394	0%
2043 Annual	Santa Clara (SF)	UBUS	Dsl	68	40 RUNEX	30 CH4	0.056414452	390	0%
2043 Annual	Santa Clara (SF)	UBUS	Dsl	68	40 RUNEX	35 CH4	0.050558008	543	0%
2043 Annual	Santa Clara (SF)	UBUS	Dsl	68	40 RUNEX	40 CH4	0.046027223	755	0%
2043 Annual	Santa Clara (SF)	UBUS	Dsl	68	40 RUNEX	45 CH4	0.042398526	634	0%
2043 Annual	Santa Clara (SF)	UBUS	Dsl	68	40 RUNEX	50 CH4	0.03941469	562	0%
2043 Annual	Santa Clara (SF)	UBUS	Dsl	68	40 RUNEX	55 CH4	0.036909683	825	0%
2043 Annual	Santa Clara (SF)	UBUS	Dsl	68	40 RUNEX	60 CH4	0.03477113	1126	0%
2043 Annual	Santa Clara (SF)	UBUS	Dsl	68	40 RUNEX	65 CH4	0.032920015	163	0%
2043 Annual	Santa Clara (SF)	UBUS	Dsl	68	40 RUNEX	70 CH4	0.032920015	0	0%
2043 Annual	Santa Clara (SF)	UBUS	Dsl	68	40 RUNEX	75 CH4	0.032920015	0	0%
2043 Annual	Santa Clara (SF)	UBUS	Dsl	68	40 RUNEX	80 CH4	0.032920015	0	0%
2043 Annual	Santa Clara (SF)	UBUS	Dsl	68	40 RUNEX	85 CH4	0.032920015	0	0%
2043 Annual	Santa Clara (SF)	UBUS	Dsl	68	40 RUNEX	90 CH4	0.032920015	0	0%
2043 Annual	Santa Clara (SF)	UBUS	Gas	68	40 RUNEX	5 CH4	0.020675099	16	0%
2043 Annual	Santa Clara (SF)	UBUS	Gas	68	40 RUNEX	10 CH4	0.013852212	52	0%
2043 Annual	Santa Clara (SF)	UBUS	Gas	68	40 RUNEX	15 CH4	0.009720187	88	0%
2043 Annual	Santa Clara (SF)	UBUS	Gas	68	40 RUNEX	20 CH4	0.007143566	774	0%
2043 Annual	Santa Clara (SF)	UBUS	Gas	68	40 RUNEX	25 CH4	0.005498439	10	0%
2043 Annual	Santa Clara (SF)	UBUS	Gas	68	40 RUNEX	30 CH4	0.004432478	10	0%
2043 Annual	Santa Clara (SF)	UBUS	Gas	68	40 RUNEX	35 CH4	0.003742301	14	0%
2043 Annual	Santa Clara (SF)	UBUS	Gas	68	40 RUNEX	40 CH4	0.003309139	19	0%
2043 Annual	Santa Clara (SF)	UBUS	Gas	68	40 RUNEX	45 CH4	0.00306461	16	0%
2043 Annual	Santa Clara (SF)	UBUS	Gas	68	40 RUNEX	50 CH4	0.002972486	14	0%
2043 Annual	Santa Clara (SF)	UBUS	Gas	68	40 RUNEX	55 CH4	0.003019594	21	0%
2043 Annual	Santa Clara (SF)	UBUS	Gas	68	40 RUNEX	60 CH4	0.003212632	28	0%
2043 Annual	Santa Clara (SF)	UBUS	Gas	68	40 RUNEX	65 CH4	0.003579794	4	0%
2043 Annual	Santa Clara (SF)	UBUS	Gas	68	40 RUNEX	70 CH4	0.003844928	0	0%
2043 Annual	Santa Clara (SF)	UBUS	Gas	68	40 RUNEX	75 CH4	0.003844928	0	0%
2043 Annual	Santa Clara (SF)	UBUS	Gas	68	40 RUNEX	80 CH4	0.003844928	0	0%

2043 Annual	Santa Clara (SF)	UBUS	Gas	68	40 RUNEX	85 CH4	0.003844928	0	0%
2043 Annual	Santa Clara (SF)	UBUS	Gas	68	40 RUNEX	90 CH4	0.003844928	0	0%
2043 Annual	Santa Clara (SF)	UBUS	NG	68	40 RUNEX	5 CH4	9.718088022	250	0%
2043 Annual	Santa Clara (SF)	UBUS	NG	68	40 RUNEX	10 CH4	8.082365384	832	0%
2043 Annual	Santa Clara (SF)	UBUS	NG	68	40 RUNEX	15 CH4	7.125528979	1412	0%
2043 Annual	Santa Clara (SF)	UBUS	NG	68	40 RUNEX	20 CH4	6.446642746	12352	0%
2043 Annual	Santa Clara (SF)	UBUS	NG	68	40 RUNEX	25 CH4	5.920057674	159	0%
2043 Annual	Santa Clara (SF)	UBUS	NG	68	40 RUNEX	30 CH4	5.489806342	158	0%
2043 Annual	Santa Clara (SF)	UBUS	NG	68	40 RUNEX	35 CH4	5.126034023	219	0%
2043 Annual	Santa Clara (SF)	UBUS	NG	68	40 RUNEX	40 CH4	4.810920108	305	0%
2043 Annual	Santa Clara (SF)	UBUS	NG	68	40 RUNEX	45 CH4	4.532969937	256	0%
2043 Annual	Santa Clara (SF)	UBUS	NG	68	40 RUNEX	50 CH4	4.284335036	227	0%
2043 Annual	Santa Clara (SF)	UBUS	NG	68	40 RUNEX	55 CH4	4.059417409	333	0%
2043 Annual	Santa Clara (SF)	UBUS	NG	68	40 RUNEX	60 CH4	3.854083704	455	0%
2043 Annual	Santa Clara (SF)	UBUS	NG	68	40 RUNEX	65 CH4	3.665195005	66	0%
2043 Annual	Santa Clara (SF)	UBUS	NG	68	40 RUNEX	70 CH4	3.490311386	0	0%
2043 Annual	Santa Clara (SF)	UBUS	NG	68	40 RUNEX	75 CH4	3.490311386	0	0%
2043 Annual	Santa Clara (SF)	UBUS	NG	68	40 RUNEX	80 CH4	3.490311386	0	0%
2043 Annual	Santa Clara (SF)	UBUS	NG	68	40 RUNEX	85 CH4	3.490311386	0	0%
2043 Annual	Santa Clara (SF)	UBUS	NG	68	40 RUNEX	90 CH4	3.490311386	0	0%

**VTM from EMFAC2017 Web Tool - 2017**

EMFAC2017 (v1.0.2) Emission Rates

Region Type: County

Region: SANTA CLARA

Calendar Year: 2017

Season: Annual

Vehicle Classification: EMFAC2011 Categories

Units: miles/day for VMT, g/mile for RUNEX, PMBW and PMTW

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	VMT	ROG_RUNEX	TOG_RUNEX	CO_RUNEX	Nox_RUNEX	SOx_RUNEX	CO2_RUNEX	PM10_RUNEX	PM2_5_RUNEX	N2O_RUNEX
SANTA CLARA	2017	All Other Buses	Aggregated	5	DSL	677.1091	1.517752196	1.727845342	2.358199801	9.08134573	0.023503222	2487.770485	0.327518241	0.313349947	0.391042876
SANTA CLARA	2017	All Other Buses	Aggregated	10	DSL	2046.977	1.163076486	1.324074044	1.872059411	7.32277034	0.019784932	2094.19673	0.275361757	0.263449729	0.329178563
SANTA CLARA	2017	All Other Buses	Aggregated	15	DSL	2328.32	0.631293349	0.718679423	1.295898224	5.280460311	0.015741812	1666.24029	0.19069105	0.18244184	0.26190977
SANTA CLARA	2017	All Other Buses	Aggregated	20	DSL	2704.14	0.309368865	0.352192903	0.943948014	4.210616357	0.013388026	1417.096649	0.131811454	0.126109349	0.222747859
SANTA CLARA	2017	All Other Buses	Aggregated	25	DSL	3289.079	0.223576327	0.25452463	0.767812424	3.620442658	0.011763686	1245.163316	0.107937201	0.103267886	0.195722333
SANTA CLARA	2017	All Other Buses	Aggregated	30	DSL	4484.967	0.18405722	0.209535134	0.64530811	3.148129579	0.010483001	1109.605383	0.094315745	0.090235688	0.174414514
SANTA CLARA	2017	All Other Buses	Aggregated	35	DSL	8249.611	0.153186971	0.174391706	0.544778036	2.775702665	0.009491981	1004.707773	0.084861481	0.081190411	0.157926071
SANTA CLARA	2017	All Other Buses	Aggregated	40	DSL	9807.805	0.130679075	0.14876818	0.465515946	2.507234442	0.008786351	930.0181888	0.079568408	0.076126314	0.146185908
SANTA CLARA	2017	All Other Buses	Aggregated	45	DSL	6216.409	0.116305974	0.132405498	0.407021638	2.34035108	0.008363606	885.2714666	0.078439681	0.075046415	0.139152346
SANTA CLARA	2017	All Other Buses	Aggregated	50	DSL	1835.243	0.10987934	0.125089264	0.368951776	2.275528333	0.008222169	870.300655	0.081485987	0.07796094	0.136799143
SANTA CLARA	2017	All Other Buses	Aggregated	55	DSL	454.3599	0.111235547	0.126633203	0.351083636	2.315070406	0.008360996	884.995209	0.088724748	0.084886554	0.139108923
SANTA CLARA	2017	All Other Buses	Aggregated	60	DSL	33.37864	0.115411915	0.13138768	0.351633448	2.433854067	0.008784575	929.830214	0.094806677	0.090705383	0.146156361
SANTA CLARA	2017	All Other Buses	Aggregated	65	DSL	0.015894	0.116807246	0.132976158	0.359322221	2.626028367	0.009477177	1003.140781	0.096858903	0.09266883	0.157679761
SANTA CLARA	2017	All Other Buses	Aggregated	70	DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2017	All Other Buses	Aggregated	75	DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2017	All Other Buses	Aggregated	80	DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2017	All Other Buses	Aggregated	85	DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2017	All Other Buses	Aggregated	90	DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2017	LDA	Aggregated	5	GAS	34436.56	0.16289068	0.23489535	2.203118702	0.162923423	0.007071141	714.5590708	0.010583917	0.009734089	0.014210002
SANTA CLARA	2017	LDA	Aggregated	5	DSL	262.4942	0.244918826	0.2788238	3.443751126	0.251071313	0.005553348	587.4323299	0.058593472	0.056058744	0.092336182
SANTA CLARA	2017	LDA	Aggregated	10	GAS	23851.21	0.103253053	0.148668841	1.962215192	0.142880608	0.005715069	577.5240929	0.006697677	0.016160054	0.01247321
SANTA CLARA	2017	LDA	Aggregated	10	DSL	181.807	0.179537191	0.204391155	2.562909055	0.236236569	0.004626463	489.3865793	0.042503741	0.040665048	0.076924755
SANTA CLARA	2017	LDA	Aggregated	15	GAS	101507.6	0.069509645	0.099991893	1.77484907	0.125497833	0.004677752	472.7002561	0.004470376	0.004111648	0.010957687
SANTA CLARA	2017	LDA	Aggregated	15	DSL	773.746	0.099801885	0.113617811	1.323864936	0.20760997	0.003805253	402.5190688	0.031912684	0.030532156	0.063270392
SANTA CLARA	2017	LDA	Aggregated	20	GAS	3715.19	0.049323184	0.070877153	1.616008573	0.112512255	0.003892593	393.3576548	0.003146409	0.002894	0.009819207
SANTA CLARA	2017	LDA	Aggregated	20	DSL	2831.924	0.052550682	0.059825458	0.597930234	0.189995113	0.003121543	330.196333	0.024852431	0.023777326	0.051902265
SANTA CLARA	2017	LDA	Aggregated	25	GAS	896703.6	0.036842698	0.052886338	1.476637223	0.10273051	0.003328097	336.3137134	0.002334788	0.002147543	0.008956449
SANTA CLARA	2017	LDA	Aggregated	25	DSL	6835.164	0.037084816	0.042218598	0.396597016	0.185604147	0.002616607	276.7843209	0.020118312	0.019248003	0.043506641
SANTA CLARA	2017	LDA	Aggregated	30	GAS	7233753	0.028998537	0.04158514	1.356323116	0.095298234	0.002954424	298.5530169	0.00182625	0.00167983	0.00829666
SANTA CLARA	2017	LDA	Aggregated	30	DSL	55139.61	0.029789948	0.033913875	0.315694785	0.186615497	0.002266462	239.7460102	0.017010555	0.016274686	0.037684734
SANTA CLARA	2017	LDA	Aggregated	35	GAS	1575730	0.023996316	0.034375892	1.248730921	0.090236888	0.002735781	276.4585402	0.001505538	0.001384864	0.007842304
SANTA CLARA	2017	LDA	Aggregated	35	DSL	12011.08	0.025152077	0.028633967	0.26589182	0.189756923	0.002048836	216.725564	0.014974043	0.014326272	0.034066241
SANTA CLARA	2017	LDA	Aggregated	40	GAS	1621733	0.020920904	0.029943109	1.155854155	0.086636753	0.002646404	267.4267325	0.001307971	0.001203159	0.007514666
SANTA CLARA	2017	LDA	Aggregated	40	DSL	12361.73	0.02219902	0.025272109	0.235018263	0.194058775	0.001917252	202.8066316	0.013698953	0.013106342	0.031878378
SANTA CLARA	2017	LDA	Aggregated	45	GAS	3090962	0.019228285	0.027499986	1.077386673	0.08442028	0.002656976	268.4950702	0.001197455	0.001110152	0.007307071
SANTA CLARA	2017	LDA	Aggregated	45	DSL	23561	0.020434378	0.02326318	0.217406522	0.199129152	0.001851918	195.8956263	0.013013379	0.012450426	0.030792064
SANTA CLARA	2017	LDA	Aggregated	50	GAS	1069812	0.018573095	0.02654362	1.006654183	0.08377037	0.002732233	276.0999872	0.001155262	0.001062725	0.007234683
SANTA CLARA	2017	LDA	Aggregated	50	DSL	8154.694	0.019611111	0.022325945	0.210650313	0.204725621	0.001856632	196.3942944	0.012837091	0.012281764	0.030870448
SANTA CLARA	2017	LDA	Aggregated	55	GAS	2061038	0.01891966	0.027024367	0.948618955	0.084397141	0.002846569	287.6539848	0.001174599	0.001080529	0.007271998
SANTA CLARA	2017	LDA	Aggregated	55	DSL	15710.36	0.019640953	0.022359919	0.214480778	0.210698215	0.00194282	205.5111641	0.013161683	0.012592314	0.032303493
SANTA CLARA	2017	LDA	Aggregated	60	GAS	4881125	0.020213814	0.028850643	0.894920023	0.087397952	0.002954799	298.5909467	0.001258739	0.001157943	0.007511842
SANTA CLARA	2017	LDA	Aggregated	60	DSL	37206.6	0.020808004	0.023688529	0.234915721	0.217708966	0.00210625	222.7987806	0.014113752	0.013503197	0.035020866
SANTA CLARA	2017	LDA	Aggregated	65	GAS	2044264	0.022819508	0.03256072	0.855509388	0.091014402	0.003046673	307.8749814	0.001421949	0.001308094	0.007801767
SANTA CLARA	2017	LDA	Aggregated	65	DSL	15582.5	0.023220521	0.02643502	0.274936373	0.224994442	0.002367851	250.4709208	0.015827384	0.015142698	0.039370541
SANTA CLARA	2017	LDT1	Aggregated	5	GAS	3117.167	0.329977084	0.468109942	4.451198782	0.381774956	0.008130463	821.6065989	0.017010345	0.01565308	0.025339064
SANTA CLARA	2017	LDT1	Aggregated	5	DSL	1.585295	1.13814728	1.295705009	4.505079903	1.083099845	0.010296019	1089.111307	0.91426183	0.874711268	0.171193131
SANTA CLARA	2017	LDT1	Aggregated	10	GAS	2158.991	0.216103828	0.305849823	3.823673727	0.326981878	0.006574873	664.4097373	0.010973275	0.01009836	0.021797344
SANTA CLARA	2017	LDT1	Aggregated	10	DSL	1.097996	0.792986563	0.902762481	3.20417038	1.139581611	0.008666844	916.7774419	0.636555644	0.609018528	0.144104647
SANTA CLARA	2017	LDT1	Aggregated	15	GAS	9188.376	0.149466913	0.211211011	3.358467323	0.282250145	0.005381325	543.7982713	0.007456926	0.006862808	0.018864281

SANTA CLARA	2017 LDT1	Aggregated	15 DSL	4.672925	0.575353984	0.655002258	2.374111737	1.194748795	0.007186242	760.1595923	0.46377242	0.44370983	0.119486502
SANTA CLARA	2017 LDT1	Aggregated	20 GAS	33629.61	0.108664113	0.153309427	2.993772777	0.25019692	0.004478065	452.5213078	0.005333542	0.004908904	0.016736453
SANTA CLARA	2017 LDT1	Aggregated	20 DSL	17.10298	0.436836397	0.497309195	1.85320146	1.252131332	0.005904006	624.5291396	0.353568542	0.338273323	0.098167284
SANTA CLARA	2017 LDT1	Aggregated	25 GAS	81168.83	0.082880059	0.116743765	2.696661946	0.227109695	0.003828995	386.930928	0.004012047	0.003692845	0.015182091
SANTA CLARA	2017 LDT1	Aggregated	25 DSL	41.27996	0.348109829	0.396299896	1.533526468	1.311547101	0.004950333	523.6451705	0.28206483	0.26986283	0.082309729
SANTA CLARA	2017 LDT1	Aggregated	30 GAS	654793	0.066321193	0.093276722	2.455306877	0.21044143	0.003998989	343.4775384	0.00317197	0.002919778	0.014041142
SANTA CLARA	2017 LDT1	Aggregated	30 DSL	333.0075	0.290503538	0.330718964	1.338507112	1.372142614	0.004280635	452.8048814	0.235471418	0.225285029	0.071174622
SANTA CLARA	2017 LDT1	Aggregated	35 GAS	142633.7	0.055602164	0.07806645	2.253959087	0.199924149	0.003147574	318.0713218	0.002634465	0.002425149	0.013299959
SANTA CLARA	2017 LDT1	Aggregated	35 DSL	72.53912	0.25370106	0.288821789	1.230484871	1.434162032	0.003863437	408.673808	0.205700264	0.196801762	0.064237831
SANTA CLARA	2017 LDT1	Aggregated	40 GAS	146797.9	0.048866789	0.068501103	2.090504647	0.193329268	0.003044331	307.6383287	0.002297852	0.00211514	0.012813108
SANTA CLARA	2017 LDT1	Aggregated	40 DSL	74.65687	0.231851943	0.263948022	1.19130429	1.496534131	0.003605825	381.4236542	0.188033798	0.179899539	0.059954487
SANTA CLARA	2017 LDT1	Aggregated	45 GAS	279791.2	0.045042543	0.063049612	1.962374138	0.190423165	0.003055365	308.7533541	0.002104598	0.001937596	0.012565687
SANTA CLARA	2017 LDT1	Aggregated	45 DSL	142.2932	0.221722638	0.252416482	1.214653425	1.559446622	0.003476627	367.757111	0.179862085	0.172081331	0.057806297
SANTA CLARA	2017 LDT1	Aggregated	50 GAS	96838.48	0.04347136	0.060755147	1.859249414	0.191754394	0.00314135	317.4423666	0.002024281	0.001863749	0.012591108
SANTA CLARA	2017 LDT1	Aggregated	50 DSL	49.24907	0.221880816	0.252596557	1.30428036	1.622825639	0.003482403	368.3680386	0.180030443	0.172242405	0.057902326
SANTA CLARA	2017 LDT1	Aggregated	55 GAS	186563.4	0.044028585	0.06144924	1.78909816	0.196790854	0.003271692	330.6138536	0.002045244	0.001883142	0.012852347
SANTA CLARA	2017 LDT1	Aggregated	55 DSL	94.88037	0.232350814	0.264515954	1.474978195	1.686595508	0.003641136	385.1587933	0.188563541	0.180406366	0.060541599
SANTA CLARA	2017 LDT1	Aggregated	60 GAS	441835.2	0.046720863	0.065078404	1.744044541	0.208592902	0.003396834	343.2597873	0.002171616	0.001999587	0.013541057
SANTA CLARA	2017 LDT1	Aggregated	60 DSL	224.7037	0.254635695	0.289885809	1.756916989	1.752588975	0.003944095	417.2058182	0.206674075	0.197733446	0.065578945
SANTA CLARA	2017 LDT1	Aggregated	65 GAS	185045	0.052062602	0.072431463	1.741880575	0.223395101	0.003502444	353.9319874	0.002424583	0.002232602	0.014406799
SANTA CLARA	2017 LDT1	Aggregated	65 DSL	94.10818	0.29203395	0.332461236	2.204117337	1.816170573	0.004430107	468.6160237	0.237046192	0.226791678	0.073659913
SANTA CLARA	2017 LDT2	Aggregated	5 GAS	11592.23	0.194265789	0.278443214	2.776174243	0.287471089	0.009138023	923.4233422	0.010425299	0.009590304	0.020341878
SANTA CLARA	2017 LDT2	Aggregated	5 DSL	55.98903	0.265535673	0.30229471	2.070380843	0.168645452	0.007496236	792.9507118	0.026434714	0.02529116	0.124640809
SANTA CLARA	2017 LDT2	Aggregated	10 GAS	8028.932	0.12486289	0.178636607	2.446916541	0.249226954	0.007391855	746.9681515	0.006618462	0.00688652	0.017705996
SANTA CLARA	2017 LDT2	Aggregated	10 DSL	38.77874	0.197440743	0.22477316	1.546274409	0.146459664	0.00631008	667.4793661	0.020185817	0.019312587	0.104918461
SANTA CLARA	2017 LDT2	Aggregated	15 GAS	34170.06	0.085057995	0.121528848	2.194428787	0.216955707	0.006049372	611.3063975	0.004431032	0.004076516	0.015454498
SANTA CLARA	2017 LDT2	Aggregated	15 DSL	165.0371	0.100670221	0.114606354	0.772329535	0.109107832	0.005232097	553.450401	0.015692847	0.010513981	0.086994696
SANTA CLARA	2017 LDT2	Aggregated	20 GAS	125063	0.061002032	0.087041445	1.985710772	0.193234256	0.005033104	508.609527	0.003127467	0.001937379	0.013784839
SANTA CLARA	2017 LDT2	Aggregated	20 DSL	604.0386	0.043968603	0.050055331	0.320158439	0.083746674	0.004298567	454.7017576	0.012509074	0.011967937	0.071472784
SANTA CLARA	2017 LDT2	Aggregated	25 GAS	301853.5	0.045984315	0.06552506	1.806836149	0.175658575	0.004303106	434.8411372	0.0023264	0.002140466	0.012536064
SANTA CLARA	2017 LDT2	Aggregated	25 DSL	1457.915	0.028338903	0.032261957	2.021183588	0.072848612	0.003604193	381.2510327	0.01028362	0.009838755	0.059927353
SANTA CLARA	2017 LDT2	Aggregated	30 GAS	2435067	0.036453453	0.051878857	1.655240679	0.16254758	0.003819673	385.988917	0.00182331	0.001677657	0.011594632
SANTA CLARA	2017 LDT2	Aggregated	30 DSL	11761.07	0.022030552	0.025080319	0.15581921	0.067823703	0.003116607	329.6742496	0.008809592	0.008428493	0.051820201
SANTA CLARA	2017 LDT2	Aggregated	35 GAS	530431.4	0.030328808	0.043103599	1.522450574	0.153823941	0.003537655	357.490188	0.001505316	0.001385123	0.010958116
SANTA CLARA	2017 LDT2	Aggregated	35 DSL	2561.917	0.018031899	0.020528119	0.127451501	0.06501726	0.002812858	297.5436805	0.0078148	0.007476736	0.046769723
SANTA CLARA	2017 LDT2	Aggregated	40 GAS	545917	0.026522143	0.037647637	1.409750156	0.147862041	0.003422406	345.8439461	0.001308946	0.001204479	0.010512528
SANTA CLARA	2017 LDT2	Aggregated	40 DSL	2636.711	0.015378906	0.017507862	0.108845998	0.06346231	0.002625298	277.703625	0.007155045	0.00684552	0.043651143
SANTA CLARA	2017 LDT2	Aggregated	45 GAS	1040497	0.024390424	0.034585406	1.316329456	0.144506706	0.003435574	347.1745523	0.001198709	0.001103078	0.010247335
SANTA CLARA	2017 LDT2	Aggregated	45 DSL	5025.473	0.013595953	0.015478088	0.096554879	0.062705113	0.002531233	267.7534068	0.006750023	0.00645802	0.042087107
SANTA CLARA	2017 LDT2	Aggregated	50 GAS	360126.4	0.023528637	0.033327199	1.234405305	0.14410626	0.003533351	357.0552235	0.001156145	0.001063943	0.010185864
SANTA CLARA	2017 LDT2	Aggregated	50 DSL	1739.365	0.012434404	0.014155743	0.088878335	0.062484106	0.002535438	268.1982056	0.006559857	0.006276608	0.042157023
SANTA CLARA	2017 LDT2	Aggregated	55 GAS	693798.4	0.023881064	0.033796751	1.169671211	0.146206062	0.003680515	371.9265656	0.001174518	0.00108088	0.010294447
SANTA CLARA	2017 LDT2	Aggregated	55 DSL	3350.959	0.01176923	0.013398486	0.085098754	0.062640731	0.002651007	280.4230727	0.006574847	0.006290422	0.044078602
SANTA CLARA	2017 LDT2	Aggregated	60 GAS	1643112	0.025402924	0.035905006	1.113297977	0.152856934	0.00382213	386.2371775	0.001256981	0.001156793	0.010712759
SANTA CLARA	2017 LDT2	Aggregated	60 DSL	7936.026	0.011896096	0.013542915	0.088015478	0.063723428	0.002871583	303.7555925	0.006881014	0.006583344	0.047746149
SANTA CLARA	2017 LDT2	Aggregated	65 GAS	688151.8	0.028477467	0.040225509	1.077027689	0.161136473	0.003940579	398.2068407	0.001417482	0.001304521	0.01123128
SANTA CLARA	2017 LDT2	Aggregated	65 DSL	3323.687	0.012743639	0.014507786	0.097580867	0.06535554	0.003225434	341.1858889	0.007516416	0.007191259	0.05362967
SANTA CLARA	2017 LHD1	Aggregated	5 GAS	18959	0.317015916	0.445367393	3.798163252	0.548305364	0.01952833	1973.393676	0.009164541	0.008440456	0.032645294
SANTA CLARA	2017 LHD1	Aggregated	5 DSL	7120.071	0.762839694	0.868442275	2.849655853	2.834383225	0.012167951	1287.124049	0.10105112	0.096679694	0.202317976
SANTA CLARA	2017 LHD1	Aggregated	10 GAS	41466.29	0.210026269	0.294589922	2.932309001	0.484581975	0.015848387	1601.524853	0.00585127	0.005389773	0.028657831
SANTA CLARA	2017 LHD1	Aggregated	10 DSL	18224.98	0.549013299	0.62501514	2.066657503	2.918070627	0.01029061	1082.028593	0.072444083	0.069310184	0.170079827
SANTA CLARA	2017 LHD1	Aggregated	15 GAS	105612.7	0.146426469	0.205031991	2.370400476	0.437431433	0.012959091	1309.553214	0.0039411	0.003630795	0.025688191
SANTA CLARA	2017 LHD1	Aggregated	15 DSL	45886.75	0.338342921	0.385180921	1.329356867	2.978922213	0.006680433	706.6552169	0.053936174	0.051602919	0.111076359
SANTA CLARA	2017 LHD1	Aggregated	20 GAS	119385.6	0.1077260925	0.149871466	1.990479115	0.403850734	0.01077158	1088.49904	0.00279972	0.002579652	0.023544652
SANTA CLARA	2017 LHD1	Aggregated	20 DSL	49017.68	0.211146556	0.240376316	0.884787779	3.062249694	0.00569406	602.3168627	0.041758694	0.039952231	0.094675823
SANTA CLARA	2017 LHD1	Aggregated	25 GAS	93995.88	0.082566763	0.115051003	1.72847782	0.382258404	0.009206892	930.3828345	0.002097204	0.001932618	0.022124347
SANTA CLARA	2017 LHD1	Aggregated	25 DSL	51607.57	0.158821855	0.180808123	0.697687971	3.190416097	0.005050089	534.1976937	0.033670347	0.032213783	0.083968438
SANTA CLARA	2017 LHD1	Aggregated	30 GAS	79670.77	0.066984536	0.093213963	1.548023106	0.362239171	0.008169461	825.5473891	0.001656123	0.001526348	0.020822656
SANTA CLARA	2017 LHD1	Aggregated	30 DSL	41326.16	0.130258897	0.148291094	0.598265699	3.31761148	0.004586027	485.109257	0.028371817	0.027144465	0.07625242

SANTA CLARA	2017 LHD1	Aggregated	35 GAS	30844.21	0.056946655	0.079006989	1.424245118	0.355307873	0.007572575	765.2304089	0.001378396	0.001270533	0.020291274
SANTA CLARA	2017 LHD1	Aggregated	35 DSL	22600.72	0.112055504	0.127567742	0.541442907	3.470209594	0.004586027	485.109257	0.024924221	0.023846011	0.07625242
SANTA CLARA	2017 LHD1	Aggregated	40 GAS	8276.005	0.05082827	0.070251015	1.348372962	0.35734843	0.007329871	740.7044683	0.001208901	0.001114418	0.020287299
SANTA CLARA	2017 LHD1	Aggregated	40 DSL	11784.48	0.100855255	0.114817002	0.516335331	3.626929534	0.004460479	471.8287907	0.022796996	0.021810808	0.074164915
SANTA CLARA	2017 LHD1	Aggregated	45 GAS	9183.664	0.047863327	0.066137723	1.317996612	0.350044116	0.035054123	743.2562651	0.001117008	0.001029801	0.019803008
SANTA CLARA	2017 LHD1	Aggregated	45 DSL	11713.28	0.09488365	0.108018728	0.518654541	3.767693897	0.004350846	460.2318592	0.021696001	0.020757442	0.072342039
SANTA CLARA	2017 LHD1	Aggregated	50 GAS	80636.06	0.04757241	0.065972871	1.334006103	0.336007456	0.007570778	765.048798	0.001087163	0.001002361	0.018927108
SANTA CLARA	2017 LHD1	Aggregated	50 DSL	51218.42	0.093301183	0.106217194	0.548920573	3.902459533	0.004561281	482.4915882	0.021486001	0.020556526	0.057840959
SANTA CLARA	2017 LHD1	Aggregated	55 GAS	20755.18	0.049012112	0.067587877	1.400518066	0.35817902	0.007882058	796.5044792	0.001114398	0.001027534	0.020113398
SANTA CLARA	2017 LHD1	Aggregated	55 DSL	29639.86	0.095940013	0.109221326	0.612426021	4.072307009	0.004766376	504.1865873	0.022157518	0.021198994	0.07925111
SANTA CLARA	2017 LHD2	Aggregated	5 GAS	2320.935	0.271210918	0.394936728	2.697231508	0.630183157	0.02237349	2260.905248	0.008896953	0.008181082	0.037155671
SANTA CLARA	2017 LHD2	Aggregated	5 DSL	2795.166	0.750957181	0.854914824	2.80621645	2.397234754	0.012849718	1359.241214	0.088494094	0.084665879	0.21365379
SANTA CLARA	2017 LHD2	Aggregated	10 GAS	5076.249	0.175660448	0.255762062	2.219652872	0.550819986	0.018160935	1835.214497	0.005635877	0.005182441	0.032372599
SANTA CLARA	2017 LHD2	Aggregated	10 DSL	7154.679	0.544479064	0.619853215	2.047454027	2.4417944	0.011419946	1208.000134	0.064291696	0.061510466	0.189880799
SANTA CLARA	2017 LHD2	Aggregated	15 GAS	12928.96	0.119784389	0.174381236	1.886484643	0.491442831	0.014851842	1500.821197	0.003766485	0.003463479	0.028783849
SANTA CLARA	2017 LHD2	Aggregated	15 DSL	18014.01	0.322227113	0.366834145	1.255932113	2.454286306	0.007601914	804.1293643	0.048323637	0.046233178	0.126397938
SANTA CLARA	2017 LHD2	Aggregated	20 GAS	14615.02	0.085788008	0.124867799	1.640789841	0.448260242	0.012345714	1247.569711	0.002655339	0.00244172	0.02616041
SANTA CLARA	2017 LHD2	Aggregated	20 DSL	19243.14	0.189132325	0.215314578	0.782651107	2.495739603	0.006483874	685.8631903	0.037660636	0.036031453	0.107808142
SANTA CLARA	2017 LHD2	Aggregated	25 GAS	11506.85	0.06449116	0.093848806	1.452833759	0.4191614	0.010552729	1066.383499	0.001974526	0.001815708	0.024372848
SANTA CLARA	2017 LHD2	Aggregated	25 DSL	20259.87	0.139261212	0.158539632	0.60306292	2.586677216	0.005778146	611.2114144	0.030501967	0.029182465	0.096073923
SANTA CLARA	2017 LHD2	Aggregated	30 GAS	9753.191	0.051423227	0.074822652	1.318005951	0.392657106	0.009363895	946.2483979	0.001548507	0.002743966	0.02275105
SANTA CLARA	2017 LHD2	Aggregated	30 DSL	16223.64	0.113447652	0.129152609	0.512538208	2.682118612	0.005210966	551.215202	0.025801319	0.024685166	0.086643354
SANTA CLARA	2017 LHD2	Aggregated	35 GAS	3775.908	0.04275934	0.0622201129	1.205160902	0.380912328	0.008679712	877.1097625	0.001280628	0.001177639	0.021995597
SANTA CLARA	2017 LHD2	Aggregated	35 DSL	8872.49	0.097010237	0.110439706	0.460130117	2.800060066	0.005210966	551.215202	0.022718185	0.021735406	0.086643354
SANTA CLARA	2017 LHD2	Aggregated	40 GAS	1013.138	0.037265977	0.05419335	1.11599018	0.379274162	0.008401308	848.9762175	0.001116715	0.001026914	0.021832987
SANTA CLARA	2017 LHD2	Aggregated	40 DSL	4626.298	0.086774376	0.098786858	0.435305294	2.922436097	0.005020637	531.0822032	0.020784209	0.019885094	0.083478727
SANTA CLARA	2017 LHD2	Aggregated	45 GAS	1124.252	0.034776716	0.050571097	1.068113557	0.369001259	0.008430105	851.8862527	0.001026655	0.000944102	0.021187651
SANTA CLARA	2017 LHD2	Aggregated	45 DSL	4598.349	0.081083297	0.092307943	0.433749436	3.032668483	0.004826065	510.5004427	0.019739494	0.018885572	0.080243506
SANTA CLARA	2017 LHD2	Aggregated	50 GAS	9871.36	0.034797915	0.050614297	1.061211472	0.351902425	0.008677115	876.8473469	0.000995014	0.000915009	0.020168567
SANTA CLARA	2017 LHD2	Aggregated	50 DSL	21017.1	0.07913821	0.0900093591	0.455403856	3.138568221	0.005003817	529.3030333	0.019462508	0.018620568	0.083199066
SANTA CLARA	2017 LHD2	Aggregated	55 GAS	2540.822	0.034919275	0.050768433	1.037296588	0.373110518	0.009032594	912.7694448	0.001016529	0.001349633	0.021349633
SANTA CLARA	2017 LHD2	Aggregated	55 DSL	11635.88	0.080731651	0.091907617	0.50422689	3.273016278	0.005179192	547.8541337	0.019939983	0.019077389	0.08611504
SANTA CLARA	2017 MCY	Aggregated	5 GAS	320.7006	12.95608898	15.76306089	56.74882965	1.484102546	0.005371822	542.838037	0.008897107	0.008355582	0.085481811
SANTA CLARA	2017 MCY	Aggregated	10 GAS	222.1215	8.602609234	10.44928421	43.2427393	1.377818616	0.004247413	429.2132273	0.005890505	0.005533876	0.07928812
SANTA CLARA	2017 MCY	Aggregated	15 GAS	945.3192	5.957090544	7.227499793	33.91375643	1.284844313	0.003411977	344.7900656	0.004106757	0.003859336	0.07387382
SANTA CLARA	2017 MCY	Aggregated	20 GAS	3459.884	4.349858865	5.271667677	27.89758376	1.219951791	0.002809877	283.9461037	0.003013264	0.002832531	0.07008496
SANTA CLARA	2017 MCY	Aggregated	25 GAS	8350.817	3.344599806	4.049233038	23.91250979	1.176308763	0.002389328	241.4484858	0.002325628	0.002186697	0.067526289
SANTA CLARA	2017 MCY	Aggregated	30 GAS	67366.46	2.702549102	3.269022398	21.241424	1.147773455	0.002110942	213.3167795	0.00188713	0.001774795	0.065843731
SANTA CLARA	2017 MCY	Aggregated	35 GAS	14674.45	2.302030304	2.782177697	19.62956603	1.136131916	0.001948559	196.9074553	0.001609314	0.001513815	0.065136674
SANTA CLARA	2017 MCY	Aggregated	40 GAS	15102.87	2.056914975	2.484238343	18.73549614	1.133366703	0.001875946	189.5696953	0.001441782	0.001356453	0.064945788
SANTA CLARA	2017 MCY	Aggregated	45 GAS	28785.5	1.927743594	2.327008172	18.51021434	1.138821478	0.001873125	189.2846913	0.001356574	0.001276467	0.065232478
SANTA CLARA	2017 MCY	Aggregated	50 GAS	9962.944	1.900499861	2.293065513	19.06658782	1.155199174	0.001925341	194.5612324	0.001340171	0.001261176	0.066150742
SANTA CLARA	2017 MCY	Aggregated	55 GAS	19194.02	1.964422583	2.369459542	20.47503951	1.178752321	0.002013742	203.4944299	0.001389826	0.001308019	0.067486133
SANTA CLARA	2017 MCY	Aggregated	60 GAS	45456.92	2.148737925	2.590704676	23.37323511	1.222071182	0.002131553	215.3995547	0.001512776	0.00142382	0.069958453
SANTA CLARA	2017 MCY	Aggregated	65 GAS	19037.81	2.447242335	2.950345192	27.75954669	1.263165562	0.002262542	228.636357	0.001728049	0.001626494	0.072310981
SANTA CLARA	2017 MDV	Aggregated	5 GAS	6625.235	0.278830955	0.393741369	3.562404605	0.38527941	0.011008466	1112.436988	0.011563817	0.01064285	0.026372509
SANTA CLARA	2017 MDV	Aggregated	5 DSL	126.2783	0.206095192	0.234625674	3.456609394	0.171625798	0.009306631	984.4540599	0.020131847	0.019260952	0.154742469
SANTA CLARA	2017 MDV	Aggregated	10 GAS	4588.725	0.180367078	0.253888191	3.073020999	0.333911748	0.008907592	900.1376822	0.007367936	0.006781748	0.022891382
SANTA CLARA	2017 MDV	Aggregated	10 DSL	87.46204	0.153346183	0.174574434	2.583639751	0.149974155	0.007903595	836.0411304	0.015892527	0.015205024	0.131414023
SANTA CLARA	2017 MDV	Aggregated	15 GAS	19529	0.123420691	0.173339206	2.709742403	0.290939422	0.007288832	736.5572979	0.004950141	0.004556719	0.019948295
SANTA CLARA	2017 MDV	Aggregated	15 DSL	372.2267	0.077857589	0.088635689	1.280569393	0.113335749	0.00670278	709.0190215	0.012617567	0.001207173	0.011447917
SANTA CLARA	2017 MDV	Aggregated	20 GAS	71476.46	0.088921943	0.124604563	2.425417027	0.25961841	0.006063565	612.7406538	0.0035054	0.003227085	0.017782058
SANTA CLARA	2017 MDV	Aggregated	20 DSL	1362.356	0.033647095	0.038304981	0.519721084	0.088551746	0.005566632	588.83749	0.010193674	0.0097527	0.092557053
SANTA CLARA	2017 MDV	Aggregated	25 GAS	172516.4	0.067341274	0.094151682	2.19263599	0.236632333	0.00518391	523.8489075	0.002615368	0.002407925	0.016174717
SANTA CLARA	2017 MDV	Aggregated	25 DSL	3288.198	0.021558044	0.0245424	0.321864251	0.078063499	0.00470716	497.9226881	0.008452724	0.008087063	0.078266513
SANTA CLARA	2017 MDV	Aggregated	30 GAS	1391699	0.053616225	0.074806091	2.002198515	0.219675858	0.004601287	464.9731889	0.00205519	0.001892335	0.014973922
SANTA CLARA	2017 MDV	Aggregated	30 DSL	26256.06	0.016720785	0.019035502	0.247358487	0.073382099	0.00406552	430.0501398	0.007293135	0.006977637	0.067597893
SANTA CLARA	2017 MDV	Aggregated	35 GAS	303154.1	0.044820934	0.062394374	1.842007043	0.208624251	0.004261916	430.6788005	0.001700496	0.00156587	0.014173356
SANTA CLARA	2017 MDV	Aggregated	35 DSL	5778.179	0.013655163	0.015545496	0.200589542	0.070898673	0.003688898	390.2110322	0.006496428	0.006215396	0.06133574

SANTA CLARA	2017 MDV	Aggregated	40 GAS	312004.5	0.039363386	0.054688443	1.710750163	0.201283004	0.004123266	416.6678101	0.001481223	0.001364056	0.013624439
SANTA CLARA	2017 MDV	Aggregated	40 DSL	5946.871	0.011616255	0.013224335	0.169509986	0.069653082	0.003450456	364.9887468	0.00595051	0.005693093	0.057371148
SANTA CLARA	2017 MDV	Aggregated	45 GAS	594669	0.036335042	0.050395823	1.607116884	0.197445006	0.004138884	418.2461055	0.001358142	0.001250796	0.013313224
SANTA CLARA	2017 MDV	Aggregated	45 DSL	11334.51	0.010237216	0.01165439	0.148348268	0.069198006	0.003320566	351.2489628	0.005592812	0.00535087	0.055211446
SANTA CLARA	2017 MDV	Aggregated	50 GAS	205820.8	0.035188109	0.048720431	1.523134757	0.1975996	0.004257048	430.1869243	0.001310853	0.001207318	0.013270997
SANTA CLARA	2017 MDV	Aggregated	50 DSL	3922.986	0.009325773	0.010616773	0.134171171	0.069274741	0.003337205	353.0090619	0.00539107	0.005157855	0.055488109
SANTA CLARA	2017 MDV	Aggregated	55 GAS	395622.2	0.035830468	0.049541062	1.466196237	0.201154422	0.004434143	448.0828944	0.00133196	0.001226821	0.01345606
SANTA CLARA	2017 MDV	Aggregated	55 DSL	7557.795	0.008783805	0.009999778	0.125571314	0.069726309	0.003521917	372.5478799	0.005334859	0.005104075	0.058559339
SANTA CLARA	2017 MDV	Aggregated	60 GAS	939077.6	0.038288893	0.052834406	1.431563335	0.210958843	0.004606081	465.4576277	0.001425075	0.001312642	0.01405474
SANTA CLARA	2017 MDV	Aggregated	60 DSL	17899.01	0.008840337	0.010064135	0.126914213	0.071102979	0.003813528	403.3943876	0.005504559	0.005266434	0.06340798
SANTA CLARA	2017 MDV	Aggregated	65 GAS	393295.1	0.043026627	0.059314718	1.433510077	0.22305661	0.004749165	479.9167476	0.001605849	0.001479201	0.014798261
SANTA CLARA	2017 MDV	Aggregated	65 DSL	7496.285	0.009433027	0.010738874	0.137427708	0.073011121	0.004282057	452.9553562	0.005917614	0.00566162	0.071198274
SANTA CLARA	2017 MH	Aggregated	5 GAS	230.1513	0.787900372	1.098713328	12.26301506	1.179986346	0.041212214	4164.612185	0.013130244	0.012102452	0.064640609
SANTA CLARA	2017 MH	Aggregated	5 DSL	65.96666	1.059508288	1.206179745	2.314614521	15.36502768	0.019978502	2113.322979	0.355719948	0.34033166	0.332184943
SANTA CLARA	2017 MH	Aggregated	10 GAS	1211.903	0.522961206	0.727524279	9.239735352	1.058758064	0.033439235	3379.130413	0.008466853	0.007805619	0.057429916
SANTA CLARA	2017 MH	Aggregated	10 DSL	340.5807	0.801214285	0.912129195	1.872016609	12.80778299	0.018140566	1918.906349	0.302468648	0.289383988	0.301625356
SANTA CLARA	2017 MH	Aggregated	15 GAS	1366.959	0.366305429	0.509088539	7.317838695	0.956273016	0.027339854	2762.770564	0.005758251	0.00530955	0.051353229
SANTA CLARA	2017 MH	Aggregated	15 DSL	414.8601	0.408504488	0.4650552	1.176127914	8.878636708	0.014894977	1575.588452	0.2151432	0.2058362	0.247660563
SANTA CLARA	2017 MH	Aggregated	20 GAS	1493.664	0.269313584	0.373555151	6.046773818	0.888333904	0.02272344	2296.26863	0.004128776	0.00380773	0.047218884
SANTA CLARA	2017 MH	Aggregated	20 DSL	460.6846	0.180965637	0.206017346	0.732648723	6.568781075	0.01222321	1292.957708	0.153387285	0.146751819	0.203234946
SANTA CLARA	2017 MH	Aggregated	25 GAS	1687.203	0.208254357	0.288394603	5.194579317	0.837315438	0.019422029	1962.651627	0.003120027	0.004807902	0.044066459
SANTA CLARA	2017 MH	Aggregated	25 DSL	470.9443	0.126059688	0.143510574	0.573143591	5.762076416	0.010963624	1159.730515	0.127661649	0.122139062	0.182293487
SANTA CLARA	2017 MH	Aggregated	30 GAS	1834.1304	0.169241357	0.233971896	4.62466702	0.802795518	0.017233231	1741.467313	0.002483985	0.002291572	0.041853276
SANTA CLARA	2017 MH	Aggregated	30 DSL	571.2804	0.102053117	0.116180689	0.485933639	5.323886669	0.010291019	1088.582455	0.113945588	0.109016352	0.171110002
SANTA CLARA	2017 MH	Aggregated	35 GAS	2631.91	0.144402589	0.199244104	4.256112765	0.783393757	0.015973931	1614.211417	0.002082817	0.001921747	0.040489072
SANTA CLARA	2017 MH	Aggregated	35 DSL	747.0498	0.084116591	0.095761146	0.417717542	5.007586003	0.00973284	1029.538386	0.105846528	0.101267654	0.161829097
SANTA CLARA	2017 MH	Aggregated	40 GAS	3474.743	0.129493852	0.178417158	4.054174766	0.772412553	0.015461891	1562.468388	0.00183879	0.0016968	0.039621566
SANTA CLARA	2017 MH	Aggregated	40 DSL	954.04	0.071232068	0.081092974	0.365621026	4.779847742	0.009289088	982.5983077	0.10328409	0.098816066	0.15445077
SANTA CLARA	2017 MH	Aggregated	45 GAS	3034.871	0.122019369	0.168034873	4.002874044	0.764875632	0.015515239	1567.859342	0.001708726	0.001576946	0.03899506
SANTA CLARA	2017 MH	Aggregated	45 DSL	744.5492	0.062906926	0.071615353	0.328253243	4.616009057	0.008959761	947.7622209	0.106212884	0.101618161	0.148975023
SANTA CLARA	2017 MH	Aggregated	50 GAS	2955.737	0.120519853	0.165658231	4.104127171	0.77672983	0.015970563	1613.871144	0.001670972	0.00145238	0.039401564
SANTA CLARA	2017 MH	Aggregated	50 DSL	878.7006	0.058876476	0.067026954	0.304866887	4.530349887	0.008744861	925.0301253	0.114605136	0.109647368	0.145401854
SANTA CLARA	2017 MH	Aggregated	55 GAS	3326.394	0.124943789	0.171451	4.393659785	0.797373413	0.016628754	1680.383225	0.001719235	0.001586892	0.040308304
SANTA CLARA	2017 MH	Aggregated	55 DSL	1222.392	0.058986955	0.067152726	0.295027832	4.506772152	0.008644387	914.4020208	0.128442806	0.122886427	0.143731264
SANTA CLARA	2017 MH	Aggregated	60 GAS	3513.424	0.135969355	0.186405815	4.935777363	0.82115776	0.017309328	1749.157122	0.001860811	0.001717654	0.041437152
SANTA CLARA	2017 MH	Aggregated	60 DSL	1527.827	0.063558671	0.072357321	0.29964042	4.550319096	0.00865834	915.8779073	0.147833018	0.141437827	0.143963253
SANTA CLARA	2017 MH	Aggregated	65 GAS	458.0272	0.155784018	0.214046179	5.853303663	0.833095774	0.017850944	1803.888954	0.002118471	0.001955549	0.042057074
SANTA CLARA	2017 MH	Aggregated	65 DSL	215.0356	0.072412719	0.082437066	0.318199537	4.646263768	0.008786719	929.457785	0.17274381	0.16527099	0.14609782
SANTA CLARA	2017 Motor Coach	Aggregated	5 DSL	92.65795	4.280433254	4.872947428	6.941883316	20.89965242	0.036003708	3810.9227	0.622367464	0.595444123	0.599023978
SANTA CLARA	2017 Motor Coach	Aggregated	10 DSL	210.6839	3.248004707	3.697606117	5.580758438	16.90884718	0.030830166	3263.313338	0.514301482	0.492053028	0.512947412
SANTA CLARA	2017 Motor Coach	Aggregated	15 DSL	197.0248	1.707943149	1.944363265	3.801532428	11.97878411	0.024816093	2626.735373	0.342040404	0.327243887	0.412886221
SANTA CLARA	2017 Motor Coach	Aggregated	20 DSL	287.8552	0.826331327	0.940715315	2.662351078	9.406331144	0.021070116	2230.230921	0.224310769	0.214607184	0.350561243
SANTA CLARA	2017 Motor Coach	Aggregated	25 DSL	253.1819	0.592642493	0.674678365	2.118453591	8.3309178	0.018644077	1973.439457	0.17783062	0.170137746	0.310197201
SANTA CLARA	2017 Motor Coach	Aggregated	30 DSL	139.9364	0.467624485	0.53235488	1.765409217	7.553417486	0.016835043	1781.956686	0.152439891	0.145845408	0.280098776
SANTA CLARA	2017 Motor Coach	Aggregated	35 DSL	187.0821	0.372140613	0.42365376	1.482061211	6.949130459	0.015427013	1632.919443	0.13608968	0.130202501	0.256672197
SANTA CLARA	2017 Motor Coach	Aggregated	40 DSL	173.1717	0.30441037	0.346548034	1.263756135	6.510924344	0.014402098	1524.434149	0.128796769	0.123225078	0.239619819
SANTA CLARA	2017 Motor Coach	Aggregated	45 DSL	230.6885	0.262770227	0.299143901	1.107546538	6.242636059	0.013749808	1455.390488	0.130687712	0.125034219	0.228767117
SANTA CLARA	2017 Motor Coach	Aggregated	50 DSL	339.5473	0.245552805	0.279543177	1.011861428	6.14385332	0.013463609	1425.096922	0.141991469	0.135848981	0.22400539
SANTA CLARA	2017 Motor Coach	Aggregated	55 DSL	815.1543	0.250997822	0.285741914	0.976263436	6.206199906	0.013539306	1433.109322	0.163035754	0.1559829	0.225264828
SANTA CLARA	2017 Motor Coach	Aggregated	60 DSL	2974.535	0.264724921	0.301369172	0.980274638	6.373843661	0.013990689	1480.887329	0.177961614	0.170263073	0.232774865
SANTA CLARA	2017 Motor Coach	Aggregated	65 DSL	5449.771	0.267251095	0.304245028	0.994196114	6.626138927	0.014780357	1564.472091	0.180925498	0.173098741	0.245913226
SANTA CLARA	2017 Motor Coach	Aggregated	70 DSL	66.97484	0.268576976	0.305754442	1.006681133	6.611118607	0.014780357	1564.472091	0.180925498	0.173098741	0.245913226
SANTA CLARA	2017 Motor Coach	Aggregated	75 DSL	0.021221	0.270229632	0.307635866	1.02378541	6.610602435	0.014780357	1564.472091	0.180925498	0.173098741	0.245913226
SANTA CLARA	2017 Motor Coach	Aggregated	80 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2017 Motor Coach	Aggregated	85 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2017 Motor Coach	Aggregated	90 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2017 OBUS	Aggregated	5 GAS	236.603	0.589101427	0.85488236	4.691642554	1.286895273	0.041129118	4156.215108	0.0045204	0.004159134	0.061123129
SANTA CLARA	2017 OBUS	Aggregated	10 GAS	1245.876	0.372456081	0.540184372	4.162709178	1.123061932	0.033388866	3374.040476	0.002855917	0.002627855	0.053268599
SANTA CLARA	2017 OBUS	Aggregated	15 GAS	1405.278	0.249703559	0.362006911	3.753003075	0.98564655	0.027308054	2759.557039	0.001903557	0.001751667	0.046682075





SANTA CLARA	2017 T6 CAIRP heavy	Aggregated	5 DSL	52.46316	0.891169824	1.014529008	1.789823133	7.890936797	0.023136121	2448.913557	0.124989019	0.119582049	0.384935108
SANTA CLARA	2017 T6 CAIRP heavy	Aggregated	10 DSL	119.1385	0.672349137	0.765418312	1.342781156	6.383302278	0.019480398	2061.962391	0.107460225	0.102811543	0.324111773
SANTA CLARA	2017 T6 CAIRP heavy	Aggregated	15 DSL	116.2686	0.358510159	0.408136526	0.839169569	4.658701917	0.015518778	1642.632534	0.079040898	0.075621624	0.258198959
SANTA CLARA	2017 T6 CAIRP heavy	Aggregated	20 DSL	150.3385	0.182272851	0.207503766	0.562083047	3.721222031	0.013221175	1399.496029	0.058978619	0.056427723	0.219981287
SANTA CLARA	2017 T6 CAIRP heavy	Aggregated	25 DSL	129.2419	0.135846572	0.154650981	0.450874893	3.149333726	0.011625371	1230.522992	0.050584008	0.048395766	0.193421078
SANTA CLARA	2017 T6 CAIRP heavy	Aggregated	30 DSL	82.02374	0.111208804	0.126602758	0.382408133	2.689824532	0.01030398	1090.656361	0.046486058	0.044475091	0.171435992
SANTA CLARA	2017 T6 CAIRP heavy	Aggregated	35 DSL	117.9335	0.091822682	0.104533134	0.328938807	2.327354645	0.009280054	982.2757033	0.044675982	0.042743319	0.154400062
SANTA CLARA	2017 T6 CAIRP heavy	Aggregated	40 DSL	115.338	0.077244571	0.087937064	0.289387275	2.060946087	0.008542549	904.2122388	0.04513973	0.043187005	0.142129572
SANTA CLARA	2017 T6 CAIRP heavy	Aggregated	45 DSL	147.3448	0.067137144	0.076430528	0.262970747	1.888921601	0.008083033	855.5733412	0.047872972	0.045802009	0.134484215
SANTA CLARA	2017 T6 CAIRP heavy	Aggregated	50 DSL	197.02	0.061238751	0.069715656	0.249128367	1.811973966	0.007894439	835.6110442	0.052878337	0.050590844	0.13134642
SANTA CLARA	2017 T6 CAIRP heavy	Aggregated	55 DSL	463.2063	0.059340844	0.067555034	0.247466006	1.829281692	0.008017457	848.6322603	0.060164043	0.057561373	0.133393173
SANTA CLARA	2017 T6 CAIRP heavy	Aggregated	60 DSL	1609.934	0.060357538	0.068712463	0.253013398	1.933293608	0.008413874	890.5922453	0.065446593	0.062615403	0.139988699
SANTA CLARA	2017 T6 CAIRP heavy	Aggregated	65 DSL	3105.438	0.061568168	0.070090673	0.260252184	2.112505361	0.009069337	959.9717388	0.067237732	0.064329058	0.150894189
SANTA CLARA	2017 T6 CAIRP heavy	Aggregated	70 DSL	37.19548	0.062430115	0.071071934	0.267487397	2.107334812	0.009069337	959.9717388	0.067237732	0.064329058	0.150894189
SANTA CLARA	2017 T6 CAIRP heavy	Aggregated	75 DSL	0.013922	0.063504497	0.072295036	0.277399525	2.106635612	0.009069337	959.9717388	0.067237732	0.064329058	0.150894189
SANTA CLARA	2017 T6 CAIRP heavy	Aggregated	80 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2017 T6 CAIRP heavy	Aggregated	85 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2017 T6 CAIRP heavy	Aggregated	90 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2017 T6 CAIRP small	Aggregated	5 DSL	7.235097	1.616485951	1.840246207	2.79212162	9.467132051	0.023354207	2471.997487	0.211504362	0.202354776	0.38856358
SANTA CLARA	2017 T6 CAIRP small	Aggregated	10 DSL	16.43016	1.217979166	1.386576566	2.154725728	7.771072661	0.019849142	2100.993151	0.182900685	0.174988482	0.330246865
SANTA CLARA	2017 T6 CAIRP small	Aggregated	15 DSL	16.03438	0.637674016	0.725943326	1.343613645	5.689537156	0.015898091	1682.782165	0.136313707	0.130416836	0.264509922
SANTA CLARA	2017 T6 CAIRP small	Aggregated	20 DSL	20.73291	0.316282203	0.360063212	0.878903277	4.525008256	0.013511998	1430.218785	0.103135598	0.098673998	0.224810476
SANTA CLARA	2017 T6 CAIRP small	Aggregated	25 DSL	17.82351	0.237145798	0.26997244	0.712616257	3.893728989	0.011920185	1261.728491	0.089139693	0.085283549	0.198326148
SANTA CLARA	2017 T6 CAIRP small	Aggregated	30 DSL	11.31174	0.195573615	0.222645673	0.520024751	3.411688844	0.010700617	1132.639538	0.082563987	0.078992306	0.178035162
SANTA CLARA	2017 T6 CAIRP small	Aggregated	35 DSL	16.26399	0.162502521	0.184996738	0.649053288	3.030015447	0.0097532	1032.357339	0.080077915	0.07661378	0.162272197
SANTA CLARA	2017 T6 CAIRP small	Aggregated	40 DSL	15.90605	0.137313923	0.156321448	0.498201418	2.747434094	0.009069909	960.032269	0.081657824	0.078125343	0.150903703
SANTA CLARA	2017 T6 CAIRP small	Aggregated	45 DSL	20.32004	0.119539531	0.136086657	0.466378814	2.561816925	0.008646037	915.1662416	0.087294293	0.083517981	0.143851389
SANTA CLARA	2017 T6 CAIRP small	Aggregated	50 DSL	27.17066	0.108818537	0.123881621	0.452801192	2.474216886	0.008478616	897.4450201	0.096987676	0.092792032	0.14106586
SANTA CLARA	2017 T6 CAIRP small	Aggregated	55 DSL	63.87992	0.104866177	0.11938216	0.456913617	2.483572406	0.008565668	906.6593764	0.110745881	0.105955063	0.142514228
SANTA CLARA	2017 T6 CAIRP small	Aggregated	60 DSL	222.023	0.105873588	0.120529021	0.467127166	2.578410446	0.008918111	943.964716	0.119870944	0.11468538	0.148378108
SANTA CLARA	2017 T6 CAIRP small	Aggregated	65 DSL	428.2651	0.107048111	0.121866126	0.473561499	2.739482367	0.009512323	1006.860954	0.121533982	0.116276476	0.158264521
SANTA CLARA	2017 T6 CAIRP small	Aggregated	70 DSL	5.129559	0.107763882	0.122680976	0.479569699	2.732777235	0.009512323	1006.860954	0.121533982	0.116276476	0.158264521
SANTA CLARA	2017 T6 CAIRP small	Aggregated	75 DSL	0.00192	0.10865606	0.123696653	0.487800838	2.731870518	0.009512323	1006.860954	0.121533982	0.116276476	0.158264521
SANTA CLARA	2017 T6 CAIRP small	Aggregated	80 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2017 T6 CAIRP small	Aggregated	85 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2017 T6 CAIRP small	Aggregated	90 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2017 T6 instate construction	Aggregated	5 DSL	2215.602	3.312180251	3.770665088	4.358625132	15.11164567	0.0232587	2461.888297	0.677766891	0.648446995	0.386974556
SANTA CLARA	2017 T6 instate construction	Aggregated	10 DSL	1636.975	2.532167898	2.8826804	3.608904154	12.41841625	0.020139441	2131.720803	0.5671337	0.542599747	0.335076824
SANTA CLARA	2017 T6 instate construction	Aggregated	15 DSL	428.6487	1.349908416	1.536767975	2.535688724	8.85267317	0.016277033	1722.892434	0.387942605	0.37116038	0.270814698
SANTA CLARA	2017 T6 instate construction	Aggregated	20 DSL	372.687	0.648190181	0.73791518	1.823717463	6.963457897	0.013734739	1453.795505	0.263761899	0.252351676	0.228516408
SANTA CLARA	2017 T6 instate construction	Aggregated	25 DSL	495.1431	0.467122985	0.53178396	1.483438783	6.277283778	0.012186095	1289.874574	0.2137377	0.204491502	0.20275032
SANTA CLARA	2017 T6 instate construction	Aggregated	30 DSL	569.8399	0.381000477	0.43374004	1.258359949	5.808230908	0.011086316	1173.46508	0.185397067	0.177376872	0.184452369
SANTA CLARA	2017 T6 instate construction	Aggregated	35 DSL	718.5415	0.314030697	0.357500044	1.074657769	5.445497714	0.010222255	1082.005833	0.165914507	0.158737119	0.170076249
SANTA CLARA	2017 T6 instate construction	Aggregated	40 DSL	857.0811	0.265560197	0.302320069	0.930757751	5.185492001	0.009584616	1014.513066	0.155278124	0.148560861	0.159467326
SANTA CLARA	2017 T6 instate construction	Aggregated	45 DSL	1031.643	0.235056545	0.267593984	0.825562373	5.02368131	0.009167953	970.4100127	0.153502162	0.146861727	0.15253494
SANTA CLARA	2017 T6 instate construction	Aggregated	50 DSL	1155.513	0.222063456	0.252802341	0.758341151	4.959515594	0.008968884	949.3343355	0.160623094	0.15367461	0.149222137
SANTA CLARA	2017 T6 instate construction	Aggregated	55 DSL	1406.506	0.226167712	0.257474724	0.728649616	4.995043351	0.008985026	951.0475739	0.176697676	0.169053813	0.149491434
SANTA CLARA	2017 T6 instate construction	Aggregated	60 DSL	4468.367	0.235175274	0.267729147	0.7284914	5.092786353	0.009223301	976.2685406	0.188556402	0.180399536	0.153455819
SANTA CLARA	2017 T6 instate construction	Aggregated	65 DSL	2622.847	0.236120921	0.268805694	0.733166218	5.206335201	0.00964263	1020.653694	0.189829182	0.181617255	0.160432547
SANTA CLARA	2017 T6 instate construction	Aggregated	70 DSL	378.3568	0.236600807	0.269352008	0.737194398	5.205367399	0.00964263	1020.653694	0.189829182	0.181617255	0.160432547
SANTA CLARA	2017 T6 instate construction	Aggregated	75 DSL	229.1754	0.237198965	0.270032966	0.742712941	5.211944566	0.00964263	1020.653694	0.189829182	0.181617255	0.160432547
SANTA CLARA	2017 T6 instate construction	Aggregated	80 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2017 T6 instate construction	Aggregated	85 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2017 T6 instate construction	Aggregated	90 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2017 T6 instate construction	Aggregated	5 DSL	5054.242	2.977016352	3.389106503	4.38655767	13.19513304	0.023327612	2469.182516	0.463874605	0.443807595	0.388121106
SANTA CLARA	2017 T6 instate construction	Aggregated	10 DSL	3734.275	2.245739461	2.556603428	3.503238453	10.86734613	0.020110674	2128.675908	0.392033247	0.375074062	0.334598209
SANTA CLARA	2017 T6 instate construction	Aggregated	15 DSL	977.8355	1.160387503	1.321012842	2.265380263	7.815183838	0.016213694	1716.188125	0.275639097	0.263715072	0.269760874
SANTA CLARA	2017 T6 instate construction	Aggregated	20 DSL	850.1754	0.553649865	0.630288227	1.507614755	6.137573728	0.013696114	1449.707154	0.194428374	0.186017488	0.227873776
SANTA CLARA	2017 T6 instate construction	Aggregated	25 DSL	1129.523	0.408357169	0.464883552	1.223768636	5.433172582	0.012133399	1284.29675	0.161467943	0.154482911	0.201873564

SANTA CLARA	2017 T6 instate construction : Aggregated	30 DSL	1299.922	0.333964698	0.380193387	1.063428595	4.935355488	0.011003914	1164.742962	0.144616955	0.138360889	0.183081374
SANTA CLARA	2017 T6 instate construction : Aggregated	35 DSL	1639.14	0.275379018	0.31349805	0.937782828	4.545544561	0.010118755	1071.050617	0.135609139	0.129742748	0.168354242
SANTA CLARA	2017 T6 instate construction : Aggregated	40 DSL	1955.178	0.231939618	0.2640456	0.845250993	4.260390102	0.009469582	1002.336946	0.134425168	0.128609995	0.157553409
SANTA CLARA	2017 T6 instate construction : Aggregated	45 DSL	2353.388	0.203112784	0.231228443	0.784726425	4.075964963	0.009051506	958.0844059	0.141072994	0.134970239	0.150597526
SANTA CLARA	2017 T6 instate construction : Aggregated	50 DSL	2635.962	0.188446206	0.21453166	0.754546588	3.99172218	0.008861452	937.967529	0.155582834	0.148852389	0.147435434
SANTA CLARA	2017 T6 instate construction : Aggregated	55 DSL	3208.527	0.187535526	0.213494921	0.757008213	4.009202458	0.00889739	941.7715072	0.178004672	0.170304268	0.148033366
SANTA CLARA	2017 T6 instate construction : Aggregated	60 DSL	10193.26	0.192777651	0.219462681	0.770117628	4.105340112	0.009165778	970.1798	0.192715871	0.184379068	0.152498754
SANTA CLARA	2017 T6 instate construction : Aggregated	65 DSL	5983.252	0.193762952	0.220584372	0.775263936	4.238004679	0.009629098	1019.221338	0.194125155	0.185727386	0.160207401
SANTA CLARA	2017 T6 instate construction : Aggregated	70 DSL	863.1094	0.194243711	0.221131678	0.779299436	4.237216879	0.009629098	1019.221338	0.194125155	0.185727386	0.160207401
SANTA CLARA	2017 T6 instate construction : Aggregated	75 DSL	522.796	0.194842956	0.221813874	0.784828008	4.242570753	0.009629098	1019.221338	0.194125155	0.185727386	0.160207401
SANTA CLARA	2017 T6 instate construction : Aggregated	80 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2017 T6 instate construction : Aggregated	85 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2017 T6 instate construction : Aggregated	90 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2017 T6 instate heavy	Aggregated	5 DSL	2280.204	3.147550704	3.58324688	4.099169318	14.12066894	0.023089946	2444.025996	0.675941486	0.646700557
SANTA CLARA	2017 T6 instate heavy	Aggregated	10 DSL	5172.733	2.419529811	2.754450512	3.412493775	11.62262774	0.019891584	2105.485642	0.567260242	0.542720815
SANTA CLARA	2017 T6 instate heavy	Aggregated	15 DSL	6607.137	1.308456814	1.489578481	2.44821252	8.335299103	0.016034867	1697.259595	0.391039039	0.374122864
SANTA CLARA	2017 T6 instate heavy	Aggregated	20 DSL	8715.24	0.633799237	0.721532186	1.801316607	6.594058023	0.013552887	1434.546848	0.268572483	0.256954157
SANTA CLARA	2017 T6 instate heavy	Aggregated	25 DSL	12178.11	0.455533095	0.518589753	1.47108088	5.917111156	0.012005249	1270.732336	0.218960563	0.209488426
SANTA CLARA	2017 T6 instate heavy	Aggregated	30 DSL	15526.01	0.373458202	0.425153735	1.243678333	5.445114362	0.010819856	1145.260774	0.190330144	0.182096546
SANTA CLARA	2017 T6 instate heavy	Aggregated	35 DSL	12994.54	0.309520102	0.352365075	1.056534946	5.081597592	0.009888386	1046.666493	0.169969698	0.162616884
SANTA CLARA	2017 T6 instate heavy	Aggregated	40 DSL	7875.06	0.263119275	0.299541266	0.908205354	4.824728453	0.009197924	973.5824125	0.151042933	0.153033597
SANTA CLARA	2017 T6 instate heavy	Aggregated	45 DSL	5819.602	0.233754877	0.266112133	0.797697259	4.672392429	0.008739258	925.0335266	0.154059189	0.147394656
SANTA CLARA	2017 T6 instate heavy	Aggregated	50 DSL	12019.21	0.220983651	0.251573065	0.724370262	4.622436772	0.008505134	900.2519157	0.158575169	0.151715278
SANTA CLARA	2017 T6 instate heavy	Aggregated	55 DSL	30035.03	0.224389649	0.255450534	0.687861326	4.670312215	0.008540367	903.9812711	0.171488194	0.164069691
SANTA CLARA	2017 T6 instate heavy	Aggregated	60 DSL	20397.66	0.232799369	0.265024361	0.684126293	4.772801852	0.008799557	931.416065	0.181634417	0.173776993
SANTA CLARA	2017 T6 instate heavy	Aggregated	65 DSL	7938.38	0.233880706	0.266255381	0.689421431	4.904797512	0.009248303	978.9149566	0.183115833	0.175194323
SANTA CLARA	2017 T6 instate heavy	Aggregated	70 DSL	677.3953	0.234355784	0.26679622	0.693409247	4.90873986	0.009248303	978.9149566	0.183115833	0.175194323
SANTA CLARA	2017 T6 instate heavy	Aggregated	75 DSL	20.19175	0.234947948	0.267470355	0.698872492	4.929186334	0.009248303	978.9149566	0.183115833	0.175194323
SANTA CLARA	2017 T6 instate heavy	Aggregated	80 DSL	0	0	0	0	0	0	0	0	0
SANTA CLARA	2017 T6 instate heavy	Aggregated	85 DSL	0	0	0	0	0	0	0	0	0
SANTA CLARA	2017 T6 instate heavy	Aggregated	90 DSL	0	0	0	0	0	0	0	0	0
SANTA CLARA	2017 T6 instate small	Aggregated	5 DSL	4618.894	3.112327881	3.543148378	4.461593851	13.49775422	0.023347058	2471.240816	0.518796599	0.496353688
SANTA CLARA	2017 T6 instate small	Aggregated	10 DSL	10478.14	2.347920967	2.672929294	3.586261402	11.10451617	0.020122525	2129.93023	0.434777586	0.4159693
SANTA CLARA	2017 T6 instate small	Aggregated	15 DSL	13383.74	1.210918786	1.378538862	2.352760264	7.938066928	0.016217325	1716.572433	0.298954558	0.286021916
SANTA CLARA	2017 T6 instate small	Aggregated	20 DSL	17654.02	0.572739124	0.652019895	1.583013338	6.225758327	0.013694677	1449.55506	0.204858153	0.19599608
SANTA CLARA	2017 T6 instate small	Aggregated	25 DSL	24668.57	0.419006952	0.477700752	1.280031476	5.537326144	0.012129709	1283.906138	0.167099731	0.15987107
SANTA CLARA	2017 T6 instate small	Aggregated	30 DSL	31450.24	0.34030306	0.387409129	1.103471696	5.058282027	0.010998586	1164.178998	0.147286464	0.140914917
SANTA CLARA	2017 T6 instate small	Aggregated	35 DSL	26322.38	0.278808601	0.317402369	0.963634913	4.685288179	0.010112146	1070.351018	0.135826613	0.129950814
SANTA CLARA	2017 T6 instate small	Aggregated	40 DSL	15952.11	0.233905621	0.266283744	0.859044175	4.416592905	0.009462471	1001.584212	0.132704232	0.126963505
SANTA CLARA	2017 T6 instate small	Aggregated	45 DSL	11788.47	0.205085228	0.23347392	0.788677071	4.250193448	0.00904492	957.3872837	0.137932161	0.131965277
SANTA CLARA	2017 T6 instate small	Aggregated	50 DSL	24346.71	0.191905194	0.218469455	0.751862495	4.184090168	0.008856577	937.4515437	0.151547341	0.144991471
SANTA CLARA	2017 T6 instate small	Aggregated	55 DSL	60840.43	0.193958701	0.220807217	0.748204563	4.21415824	0.008895522	941.5737533	0.173608475	0.16609825
SANTA CLARA	2017 T6 instate small	Aggregated	60 DSL	41318.51	0.201289941	0.229153275	0.759557263	4.307579741	0.009167015	970.3107888	0.188342563	0.180194947
SANTA CLARA	2017 T6 instate small	Aggregated	65 DSL	16080.37	0.202319741	0.230325624	0.764777734	4.438558238	0.009633693	1019.707726	0.1897892	0.181579003
SANTA CLARA	2017 T6 instate small	Aggregated	70 DSL	1372.165	0.202802638	0.230875366	0.766831191	4.442125835	0.009633693	1019.707726	0.1897892	0.181579003
SANTA CLARA	2017 T6 instate small	Aggregated	75 DSL	40.90139	0.20340455	0.231560597	0.774384364	4.460628712	0.009633693	1019.707726	0.1897892	0.181579003
SANTA CLARA	2017 T6 instate small	Aggregated	80 DSL	0	0	0	0	0	0	0	0	0
SANTA CLARA	2017 T6 instate small	Aggregated	85 DSL	0	0	0	0	0	0	0	0	0
SANTA CLARA	2017 T6 instate small	Aggregated	90 DSL	0	0	0	0	0	0	0	0	0
SANTA CLARA	2017 T6 OOS heavy	Aggregated	5 DSL	30.02776	0.847908629	0.96527943	1.766867955	7.695370633	0.023176451	2453.182388	0.108312281	0.10362674
SANTA CLARA	2017 T6 OOS heavy	Aggregated	10 DSL	68.18997	0.637602621	0.725862048	1.315028119	6.220538628	0.019499578	2063.992524	0.093677457	0.089625012
SANTA CLARA	2017 T6 OOS heavy	Aggregated	15 DSL	66.54735	0.338087992	0.384887444	0.808385609	4.546882656	0.015528211	1643.631034	0.069964951	0.066938299
SANTA CLARA	2017 T6 OOS heavy	Aggregated	20 DSL	86.0476	0.172432104	0.196300824	0.533248771	3.634908649	0.013233792	1400.771221	0.053146114	0.050847037
SANTA CLARA	2017 T6 OOS heavy	Aggregated	25 DSL	73.97277	0.129235061	0.14712428	0.427005863	3.064638263	0.011633192	1231.35084	0.046050136	0.044058027
SANTA CLARA	2017 T6 OOS heavy	Aggregated	30 DSL	46.94702	0.10577773	0.120419894	0.363236089	2.604052197	0.010304859	1090.749319	0.042788823	0.037457063
SANTA CLARA	2017 T6 OOS heavy	Aggregated	35 DSL	67.50031	0.087280747	0.099362486	0.313900849	2.240900686	0.009276002	981.8468169	0.041695455	0.039891728
SANTA CLARA	2017 T6 OOS heavy	Aggregated	40 DSL	66.01473	0.073297939	0.083444124	0.277915532	1.974178644	0.008535553	903.4717555	0.042755937	0.040906334
SANTA CLARA	2017 T6 OOS heavy	Aggregated	45 DSL	84.33411	0.063488798	0.072277164	0.254495307	1.802224758	0.008075041	854.7274677	0.045966469	0.043977979
SANTA CLARA	2017 T6 OOS heavy	Aggregated	50 DSL	112.7661	0.05758768	0.06555919	0.24307983	1.725657595	0.007887356	834.8612969	0.051330725	0.04911018



SANTA CLARA	2017 T6 utility	Aggregated	80 DSL	0	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2017 T6 utility	Aggregated	85 DSL	0	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2017 T6 utility	Aggregated	90 DSL	0	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2017 T6T5	Aggregated	5 GAS	511.1649	1.319225373	1.889060604	12.301192	2.404235015	0.040871887	4130.221176	0.010786347	0.009938574	0.101597728	0.000000000
SANTA CLARA	2017 T6T5	Aggregated	10 GAS	2691.631	0.844938788	1.207847284	10.41504501	2.104479226	0.033176199	3352.549872	0.0068726	0.00633367	0.088835196	0.000000000
SANTA CLARA	2017 T6T5	Aggregated	15 GAS	3036.01	0.573075998	0.818306255	9.071340586	1.852876139	0.027134733	2742.042417	0.004619634	0.004258196	0.078125294	0.000000000
SANTA CLARA	2017 T6T5	Aggregated	20 GAS	3317.42	0.408302137	0.582096745	8.039197656	1.676246501	0.02255991	2279.743538	0.003275289	0.003019597	0.070592143	0.000000000
SANTA CLARA	2017 T6T5	Aggregated	25 GAS	4747.27	0.306807157	0.436771252	7.235891698	1.539188816	0.019286688	1948.975062	0.002448829	0.002258061	0.064740416	0.000000000
SANTA CLARA	2017 T6T5	Aggregated	30 GAS	4073.602	0.242854527	0.345217861	6.594570382	1.439020346	0.017115031	1729.522855	0.001930386	0.001780306	0.060453531	0.000000000
SANTA CLARA	2017 T6T5	Aggregated	35 GAS	5845.459	0.202323353	0.287144349	6.073689582	1.371566644	0.015863783	1603.08066	0.001604063	0.001479582	0.057552651	0.000000000
SANTA CLARA	2017 T6T5	Aggregated	40 GAS	7717.388	0.177744018	0.251932422	5.66494789	1.324557542	0.015352593	1551.423502	0.001404774	0.001295939	0.055521623	0.000000000
SANTA CLARA	2017 T6T5	Aggregated	45 GAS	6740.434	0.164719393	0.233296693	5.358922732	1.2894347	0.015401221	1556.337447	0.001296349	0.001196606	0.054001519	0.000000000
SANTA CLARA	2017 T6T5	Aggregated	50 GAS	6564.677	0.160229313	0.226611841	5.133172478	1.291061841	0.015847259	1601.410902	0.001260375	0.001162987	0.054029754	0.000000000
SANTA CLARA	2017 T6T5	Aggregated	55 GAS	7387.905	0.164117614	0.231818452	5.014712882	1.312331546	0.016493229	1666.688046	0.001290867	0.001191219	0.054891192	0.000000000
SANTA CLARA	2017 T6T5	Aggregated	60 GAS	7803.298	0.177132102	0.25000987	5.029253758	1.344654172	0.017159657	1734.032449	0.001392576	0.001285151	0.056227995	0.000000000
SANTA CLARA	2017 T6T5	Aggregated	65 GAS	1017.276	0.202488916	0.286112839	5.226545492	1.365913129	0.017685547	1787.175138	0.001582265	0.001460259	0.057120186	0.000000000
SANTA CLARA	2017 T7 CAIRP	Aggregated	5 DSL	1183.92	1.541248989	1.754594652	4.118049644	15.29104321	0.034771961	3680.544696	0.155198338	0.148484527	0.578530372	0.000000000
SANTA CLARA	2017 T7 CAIRP	Aggregated	10 DSL	2691.975	1.163736295	1.324825187	3.019968654	12.34920002	0.029331523	3104.684897	0.132441739	0.126712368	0.48801323	0.000000000
SANTA CLARA	2017 T7 CAIRP	Aggregated	15 DSL	2517.448	0.6558186	0.746599554	1.907033517	9.122595831	0.023460442	2483.242321	0.096368285	0.092199436	0.390331112	0.000000000
SANTA CLARA	2017 T7 CAIRP	Aggregated	20 DSL	3678.017	0.369317473	0.42043983	1.308626478	7.377158741	0.020074586	2124.856048	0.071451526	0.068360565	0.33399778	0.000000000
SANTA CLARA	2017 T7 CAIRP	Aggregated	25 DSL	3234.986	0.273033988	0.310828412	1.016463244	6.222015057	0.017689977	1872.42789	0.06104207	0.058401417	0.294319589	0.000000000
SANTA CLARA	2017 T7 CAIRP	Aggregated	30 DSL	1788.012	0.214853594	0.244594461	0.818412884	5.278392397	0.015704147	1662.253557	0.056027725	0.053603991	0.261283111	0.000000000
SANTA CLARA	2017 T7 CAIRP	Aggregated	35 DSL	2390.407	0.170575335	0.194187034	0.664507206	4.541975132	0.014167059	1499.555701	0.054017051	0.051680297	0.235709274	0.000000000
SANTA CLARA	2017 T7 CAIRP	Aggregated	40 DSL	2212.669	0.138164799	0.157290106	0.549121222	4.00606501	0.013053486	1381.686209	0.054974394	0.052596226	0.217181831	0.000000000
SANTA CLARA	2017 T7 CAIRP	Aggregated	45 DSL	2947.58	0.116074002	0.132141416	0.468176581	3.671402539	0.012345868	1306.786217	0.058893467	0.056234576	0.205408595	0.000000000
SANTA CLARA	2017 T7 CAIRP	Aggregated	50 DSL	4338.503	0.103100927	0.117372557	0.418751246	3.536142246	0.012030552	1273.410583	0.065789924	0.062943881	0.20016241	0.000000000
SANTA CLARA	2017 T7 CAIRP	Aggregated	55 DSL	10415.48	0.098286007	0.111891137	0.398791848	3.594528285	0.012170061	1288.17733	0.075697682	0.072423034	0.202483537	0.000000000
SANTA CLARA	2017 T7 CAIRP	Aggregated	60 DSL	38006.57	0.100670392	0.114605578	0.404832237	3.845428155	0.012720008	1346.3882	0.084251083	0.080606419	0.211633476	0.000000000
SANTA CLARA	2017 T7 CAIRP	Aggregated	65 DSL	69633.46	0.105142781	0.119697053	0.426586917	4.275323539	0.013661402	1446.032929	0.089911743	0.086022201	0.227296239	0.000000000
SANTA CLARA	2017 T7 CAIRP	Aggregated	70 DSL	855.7587	0.10685852	0.121650291	0.442742995	4.265632114	0.013661402	1446.032929	0.089911743	0.086022201	0.227296239	0.000000000
SANTA CLARA	2017 T7 CAIRP	Aggregated	75 DSL	0.271142	0.108997119	0.124084922	0.464876566	4.265299069	0.013661402	1446.032929	0.089911743	0.086022201	0.227296239	0.000000000
SANTA CLARA	2017 T7 CAIRP	Aggregated	80 DSL	0	0	0	0	0	0	0	0	0	0	0.000000000
SANTA CLARA	2017 T7 CAIRP	Aggregated	85 DSL	0	0	0	0	0	0	0	0	0	0	0.000000000
SANTA CLARA	2017 T7 CAIRP	Aggregated	90 DSL	0	0	0	0	0	0	0	0	0	0	0.000000000
SANTA CLARA	2017 T7 CAIRP construction	Aggregated	5 DSL	1620.817	1.538485989	1.751449187	4.109537154	15.26537178	0.035236698	3729.73618	0.154098512	0.147432279	0.586262588	0.000000000
SANTA CLARA	2017 T7 CAIRP construction	Aggregated	10 DSL	1114.856	1.161625712	1.322422448	3.013502181	12.2907254	0.029724828	3146.315377	0.131530554	0.125840601	0.494556962	0.000000000
SANTA CLARA	2017 T7 CAIRP construction	Aggregated	15 DSL	236.8299	0.654610751	0.745224511	1.901961605	9.077336302	0.023776302	2516.675858	0.095758717	0.091616237	0.395586398	0.000000000
SANTA CLARA	2017 T7 CAIRP construction	Aggregated	20 DSL	235.9264	0.368746704	0.419790053	1.304344221	7.3378604	0.020345623	2153.544756	0.071047833	0.067974335	0.338507246	0.000000000
SANTA CLARA	2017 T7 CAIRP construction	Aggregated	25 DSL	318.2172	0.272660882	0.310403659	1.012951486	6.189833021	0.017929151	1897.765855	0.060718832	0.058092162	0.298302364	0.000000000
SANTA CLARA	2017 T7 CAIRP construction	Aggregated	30 DSL	382.0079	0.214554002	0.244253399	0.815590523	5.250340981	0.016011169	1694.806317	0.055751942	0.053340137	0.266399952	0.000000000
SANTA CLARA	2017 T7 CAIRP construction	Aggregated	35 DSL	493.3245	0.170329653	0.193907344	0.662285276	4.519383038	0.014530908	1538.06841	0.053777085	0.051450712	0.241762935	0.000000000
SANTA CLARA	2017 T7 CAIRP construction	Aggregated	40 DSL	632.5179	0.137950846	0.157046537	0.547404435	3.990945828	0.013468985	1425.665967	0.054758389	0.052389566	0.224094836	0.000000000
SANTA CLARA	2017 T7 CAIRP construction	Aggregated	45 DSL	768.5575	0.115868527	0.131907498	0.466863854	3.656377426	0.012815475	1356.493223	0.058689157	0.05615029	0.213221844	0.000000000
SANTA CLARA	2017 T7 CAIRP construction	Aggregated	50 DSL	772.3341	0.102880933	0.11712211	0.417735802	3.51334271	0.012563793	1329.853145	0.065584427	0.062747272	0.209034395	0.000000000
SANTA CLARA	2017 T7 CAIRP construction	Aggregated	55 DSL	942.3151	0.098029939	0.111599623	0.397961019	3.567120091	0.012709564	1345.282689	0.075477291	0.072212177	0.211459705	0.000000000
SANTA CLARA	2017 T7 CAIRP construction	Aggregated	60 DSL	3458.717	0.100374699	0.114268954	0.404037678	3.821326236	0.013284184	1406.105158	0.083999676	0.080365887	0.22102015	0.000000000
SANTA CLARA	2017 T7 CAIRP construction	Aggregated	65 DSL	1695.731	0.104822726	0.119332694	0.425710034	4.242312229	0.014267862	1510.22551	0.089616436	0.085739669	0.237386419	0.000000000
SANTA CLARA	2017 T7 CAIRP construction	Aggregated	70 DSL	378.6052	0.10655033	0.12129944	0.44197784	4.26205421	0.014267862	1510.22551	0.089616436	0.085739669	0.237386419	0.000000000
SANTA CLARA	2017 T7 CAIRP construction	Aggregated	75 DSL	300.3936	0.108703718	0.123750908	0.464264474	4.269117869	0.014267862	1510.22551	0.089616436	0.085739669	0.237386419	0.000000000
SANTA CLARA	2017 T7 CAIRP construction	Aggregated	80 DSL	0	0	0	0	0	0	0	0	0	0	0.000000000
SANTA CLARA	2017 T7 CAIRP construction	Aggregated	85 DSL	0	0	0	0	0	0	0	0	0	0	0.000000000
SANTA CLARA	2017 T7 CAIRP construction	Aggregated	90 DSL	0	0	0	0	0	0	0	0	0	0	0.000000000
SANTA CLARA	2017 T7 NNOOS	Aggregated	5 DSL	1443.353	1.444185884	1.644095696	3.71352445	14.07434887	0.03386288	3584.320212	0.145438456	0.139146853	0.563405223	0.000000000
SANTA CLARA	2017 T7 NNOOS	Aggregated	10 DSL	3281.869	1.081654024	1.231380769	2.685509432	11.22837422	0.028404251	3006.534856	0.125868777	0.120423749	0.472585411	0.000000000
SANTA CLARA	2017 T7 NNOOS	Aggregated	15 DSL	3069.098	0.577125144	0.657013045	1.634640798	8.156788263	0.022566389	2388.608567	0.094370893	0.09028845	0.375456003	0.000000000
SANTA CLARA	2017 T7 NNOOS	Aggregated	20 DSL	4483.983	0.299119723	0.340525035	1.087923901	6.519991023	0.01922898	2035.350246	0.072159648	0.069038054	0.319928715	0.000000000
SANTA CLARA	2017 T7 NNOOS	Aggregated	25 DSL	3943.869	0.223940318	0.254939005	0.86251607	5.414157933	0.016879655	1786.67872	0.062816007	0.060098614	0.280841014	0.000000000
SANTA CLARA	2017 T7 NNOOS	Aggregated	30 DSL	2179.82	0.182280263	0.207512204	0.719372412	4.493880816	0.014917313	1578.968708	0.058746516	0.056205168	0.248191892	0.000000000
SANTA CLARA	2017 T7 NNOOS	Aggregated	35 DSL	2914.219	0.149648549	0.170363481	0.60746313	3.768503358	0.01339923	1418.282511	0.057796336	0.055296092	0.22293426	0.000000000

SANTA CLARA	2017 T7 NNOOS	Aggregated	40 DSL	2697.533	0.12521306	0.142545537	0.524556022	3.235313077	0.012311438	1303.141817	0.05994504	0.057351844	0.204835746
SANTA CLARA	2017 T7 NNOOS	Aggregated	45 DSL	3593.484	0.108325658	0.123320516	0.469053999	2.896435601	0.011642819	1232.369829	0.065191235	0.062371091	0.193711375
SANTA CLARA	2017 T7 NNOOS	Aggregated	50 DSL	5289.202	0.098464834	0.112094718	0.439839864	2.751162685	0.011383754	1204.948252	0.073548115	0.070366456	0.189401085
SANTA CLARA	2017 T7 NNOOS	Aggregated	55 DSL	12697.83	0.095193441	0.108370486	0.436161917	2.795604398	0.011593061	1227.103008	0.085041257	0.08136241	0.192883504
SANTA CLARA	2017 T7 NNOOS	Aggregated	60 DSL	46334.97	0.097378406	0.110857903	0.449147257	3.021214178	0.012211837	1292.599289	0.09405644	0.0899876	0.203178608
SANTA CLARA	2017 T7 NNOOS	Aggregated	65 DSL	84892.27	0.10071171	0.114652616	0.47015009	3.412279248	0.013223704	1399.703388	0.098825864	0.094550701	0.220013881
SANTA CLARA	2017 T7 NNOOS	Aggregated	70 DSL	1043.282	0.103002671	0.1172607	0.491722678	3.404544196	0.013223704	1399.703388	0.098825864	0.094550701	0.220013881
SANTA CLARA	2017 T7 NNOOS	Aggregated	75 DSL	0.330558	0.105858259	0.120511569	0.521276779	3.404278382	0.013223704	1399.703388	0.098825864	0.094550701	0.220013881
SANTA CLARA	2017 T7 NNOOS	Aggregated	80 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2017 T7 NNOOS	Aggregated	85 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2017 T7 NNOOS	Aggregated	90 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2017 T7 NOOS	Aggregated	5 DSL	465.1248	1.520575258	1.731059183	4.10117092	15.19096569	0.034797065	3683.201867	0.147515069	0.141133633	0.578948042
SANTA CLARA	2017 T7 NOOS	Aggregated	10 DSL	1057.592	1.147143708	1.305935789	2.999723075	12.27228359	0.029346817	3106.303692	0.126156434	0.120698963	0.488267683
SANTA CLARA	2017 T7 NOOS	Aggregated	15 DSL	989.0262	0.646679861	0.736195796	1.885441387	9.076319713	0.023471128	2484.373434	0.092301005	0.088308104	0.390508907
SANTA CLARA	2017 T7 NOOS	Aggregated	20 DSL	1444.977	0.365410374	0.415991895	1.288868254	7.344866496	0.020086563	2126.123791	0.068898329	0.065917818	0.334197052
SANTA CLARA	2017 T7 NOOS	Aggregated	25 DSL	1270.924	0.270565927	0.308018712	0.999799203	6.189441589	0.017699509	1873.458744	0.059081071	0.05652525	0.294481625
SANTA CLARA	2017 T7 NOOS	Aggregated	30 DSL	702.4535	0.212942328	0.242418631	0.804542915	5.244285384	0.01571032	1662.906942	0.054441731	0.052086606	0.261385814
SANTA CLARA	2017 T7 NOOS	Aggregated	35 DSL	939.1158	0.169078154	0.192482608	0.653136117	4.506734166	0.014170631	1499.933785	0.052751489	0.050469483	0.235768703
SANTA CLARA	2017 T7 NOOS	Aggregated	40 DSL	869.2881	0.136929074	0.155883328	0.539922725	3.97008472	0.013055351	1381.883564	0.053972755	0.051637918	0.217212852
SANTA CLARA	2017 T7 NOOS	Aggregated	45 DSL	1158.011	0.114948687	0.13086033	0.460789281	3.635025519	0.012346868	1306.891993	0.058095053	0.055581887	0.205425222
SANTA CLARA	2017 T7 NOOS	Aggregated	50 DSL	1704.461	0.101947317	0.11605926	0.412772662	3.499684508	0.012031485	1273.509401	0.065127535	0.062310147	0.200177943
SANTA CLARA	2017 T7 NOOS	Aggregated	55 DSL	4091.916	0.096987944	0.110413392	0.393770991	3.558333866	0.012171757	1288.356833	0.075095264	0.071846676	0.202511753
SANTA CLARA	2017 T7 NOOS	Aggregated	60 DSL	14931.59	0.099216819	0.112950796	0.400249429	3.811073447	0.012723729	1346.78209	0.083679283	0.080059354	0.21169539
SANTA CLARA	2017 T7 NOOS	Aggregated	65 DSL	27356.79	0.103701998	0.11805683	0.422095808	4.244339424	0.013668519	1446.786197	0.089371449	0.08550528	0.227414643
SANTA CLARA	2017 T7 NOOS	Aggregated	70 DSL	336.2007	0.105408179	0.119999188	0.438161886	4.234718234	0.013668519	1446.786197	0.089371449	0.08550528	0.227414643
SANTA CLARA	2017 T7 NOOS	Aggregated	75 DSL	0.106523	0.107534864	0.122420257	0.460172158	4.234387603	0.013668519	1446.786197	0.089371449	0.08550528	0.227414643
SANTA CLARA	2017 T7 NOOS	Aggregated	80 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2017 T7 NOOS	Aggregated	85 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2017 T7 NOOS	Aggregated	90 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2017 T7 other port	Aggregated	5 DSL	620.1812	1.204942432	1.371735237	4.152799201	14.45976269	0.035326395	3739.230396	0.052272899	0.050011596	0.587754946
SANTA CLARA	2017 T7 other port	Aggregated	10 DSL	1128.066	0.940476335	1.070660718	3.098079695	11.98485901	0.030243399	3201.205153	0.046885836	0.044857576	0.503184871
SANTA CLARA	2017 T7 other port	Aggregated	15 DSL	1042.986	0.641255677	0.730020776	2.042343422	9.284315927	0.024650736	2609.232649	0.03983707	0.038113736	0.410135037
SANTA CLARA	2017 T7 other port	Aggregated	20 DSL	806.5033	0.458627864	0.522112912	1.449803618	7.690780384	0.021372335	2262.220274	0.035308366	0.033780942	0.355589524
SANTA CLARA	2017 T7 other port	Aggregated	25 DSL	838.1457	0.338655005	0.385532945	1.073500999	6.657922356	0.019028322	2014.111031	0.032348672	0.030949282	0.316590206
SANTA CLARA	2017 T7 other port	Aggregated	30 DSL	1038.615	0.252550035	0.28750899	0.800381593	5.872313693	0.017192566	1819.799753	0.030584862	0.029261774	0.286047179
SANTA CLARA	2017 T7 other port	Aggregated	35 DSL	1282.168	0.18897115	0.21512927	0.595204716	5.25988	0.015757566	1669.83425	0.029828555	0.028538185	0.26247469
SANTA CLARA	2017 T7 other port	Aggregated	40 DSL	1590.999	0.142449622	0.162168052	0.442806594	4.807789149	0.014727517	1558.879142	0.02997502	0.028678314	0.245034092
SANTA CLARA	2017 T7 other port	Aggregated	45 DSL	1665.114	0.108955392	0.124037419	0.332012621	4.50350226	0.01401827	1483.806658	0.030959059	0.028619783	0.233233743
SANTA CLARA	2017 T7 other port	Aggregated	50 DSL	1692.338	0.085518594	0.097356409	0.254587914	4.334060042	0.013629358	1442.641119	0.032737318	0.031321116	0.226763094
SANTA CLARA	2017 T7 other port	Aggregated	55 DSL	1483.953	0.069950652	0.079633493	0.204463955	4.299752282	0.013548313	1434.062663	0.035279501	0.033753325	0.225414668
SANTA CLARA	2017 T7 other port	Aggregated	60 DSL	979.4529	0.066530022	0.075739366	0.193010428	4.44375652	0.013877919	1468.950771	0.039002557	0.037315324	0.230898605
SANTA CLARA	2017 T7 other port	Aggregated	65 DSL	385.2653	0.071656764	0.081575772	0.210232119	4.753693349	0.014592376	1544.574738	0.043819589	0.041923973	0.242785639
SANTA CLARA	2017 T7 other port	Aggregated	70 DSL	8.806518	0.072676833	0.082737042	0.219837487	4.742059009	0.014592376	1544.574738	0.043819589	0.041923973	0.242785639
SANTA CLARA	2017 T7 other port	Aggregated	75 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2017 T7 other port	Aggregated	80 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2017 T7 other port	Aggregated	85 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2017 T7 other port	Aggregated	90 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2017 T7 POAK	Aggregated	5 DSL	3210.836	1.356013995	1.543718711	4.462852117	15.06806528	0.035345041	3741.204018	0.05872067	0.05618044	0.588065172
SANTA CLARA	2017 T7 POAK	Aggregated	10 DSL	5840.286	1.06321908	1.210393989	3.370048395	12.56940811	0.030403279	3218.128181	0.052700633	0.050420827	0.505844935
SANTA CLARA	2017 T7 POAK	Aggregated	15 DSL	5399.805	0.727216108	0.827880182	2.243719773	9.791423763	0.024894795	2635.065836	0.044864712	0.042923884	0.414195654
SANTA CLARA	2017 T7 POAK	Aggregated	20 DSL	4175.474	0.520332036	0.592358415	1.596896641	8.124976557	0.021624789	2288.942	0.039808056	0.038085978	0.359789807
SANTA CLARA	2017 T7 POAK	Aggregated	25 DSL	4339.294	0.383879199	0.437017247	1.180888305	7.086422414	0.019300995	2042.972883	0.036433344	0.034857254	0.321126887
SANTA CLARA	2017 T7 POAK	Aggregated	30 DSL	5377.176	0.285936162	0.325516555	0.879487538	6.316774048	0.01749836	1852.167516	0.034309699	0.032825476	0.291134941
SANTA CLARA	2017 T7 POAK	Aggregated	35 DSL	6638.109	0.213620532	0.243190715	0.65380457	5.716621654	0.016106056	1704.794789	0.033219277	0.031782226	0.26797
SANTA CLARA	2017 T7 POAK	Aggregated	40 DSL	8237.006	0.160641814	0.182878477	0.486428145	5.271003441	0.015066704	1594.781427	0.033041118	0.031611774	0.250677432
SANTA CLARA	2017 T7 POAK	Aggregated	45 DSL	8620.719	0.122364366	0.139302517	0.364527423	4.965720328	0.014346669	1518.567081	0.033699923	0.032242079	0.238697598
SANTA CLARA	2017 T7 POAK	Aggregated	50 DSL	8761.668	0.095372054	0.108573824	0.278646996	4.786173789	0.013924703	1473.902832	0.035145618	0.033625234	0.231677
SANTA CLARA	2017 T7 POAK	Aggregated	55 DSL	7682.805	0.077147431	0.087826478	0.221818908	4.732513925	0.013786613	1459.286278	0.037343214	0.035727763	0.229379481
SANTA CLARA	2017 T7 POAK	Aggregated	60 DSL	5070.878	0.072615271	0.082666958	0.207069591	4.8540622	0.014049383	1487.09991	0.040771252	0.039007506	0.233751397



SANTA CLARA	2017 T7 single construction	Aggregated	90 DSL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2017 T7 SWCV	Aggregated	5 DSL	463.1883	0.123159487	0.140207701	0.361290047	26.80747384	0.076433161	8090.301967	0.022597307	0.021619758	1.271682805						
SANTA CLARA	2017 T7 SWCV	Aggregated	5 NG	302.8173	1.252368497	18.50283921	41.56826686	6.834129004	0	5720.84147	0.015621689	0.014945902	1.166230958						
SANTA CLARA	2017 T7 SWCV	Aggregated	10 DSL	1211	0.090745358	0.103306682	0.266100807	22.48665204	0.068545688	7255.4282	0.019747508	0.01889324	1.140452275						
SANTA CLARA	2017 T7 SWCV	Aggregated	10 NG	791.712	0.968101815	14.67144227	33.66682284	5.711278123	0	5082.207041	0.013442048	0.012860551	1.036041152						
SANTA CLARA	2017 T7 SWCV	Aggregated	15 DSL	1295.889	0.058501587	0.066599603	0.172598447	16.32948028	0.056706243	6002.245891	0.015280899	0.014619854	0.943469468						
SANTA CLARA	2017 T7 SWCV	Aggregated	15 NG	847.2102	0.561177102	9.512831055	23.69965747	4.132157495	0	4261.230931	0.010056261	0.009621232	0.868679801						
SANTA CLARA	2017 T7 SWCV	Aggregated	20 DSL	1088.904	0.040941561	0.04660885	0.121514858	12.85455046	0.047790357	5058.516647	0.01213922	0.011614083	0.795128373						
SANTA CLARA	2017 T7 SWCV	Aggregated	20 NG	711.8896	0.323345439	6.320222401	17.13670111	3.213075608	0	3711.055216	0.007711508	0.007377912	0.756522883						
SANTA CLARA	2017 T7 SWCV	Aggregated	25 DSL	1322.132	0.030647169	0.034889469	0.090883182	11.71158025	0.042982524	4549.616883	0.010696451	0.010233727	0.715136417						
SANTA CLARA	2017 T7 SWCV	Aggregated	25 NG	864.3665	0.237157538	4.633068401	12.56557805	2.852846887	0	3415.613658	0.006635456	0.006348409	0.696295188						
SANTA CLARA	2017 T7 SWCV	Aggregated	30 DSL	1375.515	0.023343225	0.026574485	0.068848678	11.04982227	0.040029607	4237.05634	0.009959635	0.009528786	0.666006252						
SANTA CLARA	2017 T7 SWCV	Aggregated	30 NG	899.2667	0.1837825	3.475507374	9.269731006	2.645874457	0	3227.915707	0.006004555	0.005744801	0.658031733						
SANTA CLARA	2017 T7 SWCV	Aggregated	35 DSL	1498.033	0.017928883	0.020410669	0.052170333	10.52799804	0.03765872	3986.102553	0.009638031	0.009221094	0.626559812						
SANTA CLARA	2017 T7 SWCV	Aggregated	35 NG	979.3648	0.143442426	2.615627132	6.840622385	2.492786319	0	3079.095023	0.005598228	0.005356051	0.627693663						
SANTA CLARA	2017 T7 SWCV	Aggregated	40 DSL	1641.961	0.014023822	0.015965054	0.039752524	10.13323422	0.0357883	3788.122223	0.009719042	0.0092986	0.595440061						
SANTA CLARA	2017 T7 SWCV	Aggregated	40 NG	1073.46	0.113724969	1.982027099	5.05063105	2.379106344	0	2957.314221	0.005405477	0.005171639	0.60286785						
SANTA CLARA	2017 T7 SWCV	Aggregated	45 DSL	1816.868	0.011347755	0.012918555	0.030788262	9.863352301	0.03437053	3638.053928	0.010195485	0.009754433	0.571851415						
SANTA CLARA	2017 T7 SWCV	Aggregated	45 NG	1187.809	0.092852406	1.522090187	3.7320166	2.298591323	0	2855.533147	0.005419457	0.005185013	0.582119112						
SANTA CLARA	2017 T7 SWCV	Aggregated	50 DSL	1681.314	0.009694108	0.011036004	0.024683353	9.711596297	0.03337532	3532.712945	0.011063409	0.010584811	0.555293279						
SANTA CLARA	2017 T7 SWCV	Aggregated	50 NG	1099.188	0.079514682	1.197041386	2.761166426	2.246463344	0	2769.249576	0.005635613	0.005391819	0.564529642						
SANTA CLARA	2017 T7 SWCV	Aggregated	55 DSL	1339.266	0.008910624	0.010144067	0.021000525	9.673386334	0.032782785	3469.9942	0.012321002	0.011788001	0.545434766						
SANTA CLARA	2017 T7 SWCV	Aggregated	55 NG	875.5685	0.072746381	0.978306306	2.046989627	2.219725363	0	2695.423057	0.006050766	0.005789013	0.549479623						
SANTA CLARA	2017 T7 SWCV	Aggregated	60 DSL	1936.799	0.009299881	0.010587206	0.02044605	9.704375732	0.032693933	3460.589397	0.013342332	0.012765149	0.543956462						
SANTA CLARA	2017 T7 SWCV	Aggregated	60 NG	1266.216	0.071595477	0.901990384	1.764419561	2.216919767	0	2662.486343	0.006332219	0.00605829	0.542765258						
SANTA CLARA	2017 T7 SWCV	Aggregated	65 DSL	370.3539	0.010600811	0.012068216	0.022185802	9.719324509	0.032883362	3480.640147	0.013897945	0.013296726	0.54710816						
SANTA CLARA	2017 T7 SWCV	Aggregated	65 NG	242.1253	0.071595477	0.901990384	1.764419561	2.216833994	0	2662.486343	0.006332219	0.00605829	0.542765258						
SANTA CLARA	2017 T7 SWCV	Aggregated	70 DSL	0	0	0	0	0	0	0	0	0	0						
SANTA CLARA	2017 T7 SWCV	Aggregated	70 NG	0	0	0	0	0	0	0	0	0	0						
SANTA CLARA	2017 T7 SWCV	Aggregated	75 DSL	0	0	0	0	0	0	0	0	0	0						
SANTA CLARA	2017 T7 SWCV	Aggregated	75 NG	0	0	0	0	0	0	0	0	0	0						
SANTA CLARA	2017 T7 SWCV	Aggregated	80 DSL	0	0	0	0	0	0	0	0	0	0						
SANTA CLARA	2017 T7 SWCV	Aggregated	80 NG	0	0	0	0	0	0	0	0	0	0						
SANTA CLARA	2017 T7 SWCV	Aggregated	85 DSL	0	0	0	0	0	0	0	0	0	0						
SANTA CLARA	2017 T7 SWCV	Aggregated	85 NG	0	0	0	0	0	0	0	0	0	0						
SANTA CLARA	2017 T7 SWCV	Aggregated	90 DSL	0	0	0	0	0	0	0	0	0	0						
SANTA CLARA	2017 T7 SWCV	Aggregated	90 NG	0	0	0	0	0	0	0	0	0	0						
SANTA CLARA	2017 T7 tractor	Aggregated	5 DSL	1031.251	3.708839617	4.222231582	6.634741483	20.48039912	0.035059672	3710.998359	0.525188725	0.502469293	0.583317263						
SANTA CLARA	2017 T7 tractor	Aggregated	10 DSL	2202.392	2.822480403	3.213179088	5.27039777	16.66114871	0.029996796	3175.102744	0.437995774	0.419048271	0.499081935						
SANTA CLARA	2017 T7 tractor	Aggregated	15 DSL	2808.125	1.519406369	1.729728491	3.583188739	12.02317293	0.024171179	2558.472427	0.298903561	0.285973125	0.402156237						
SANTA CLARA	2017 T7 tractor	Aggregated	20 DSL	3208.601	0.766320225	0.872397243	2.534018535	9.552344529	0.02058015	2178.368946	0.20318885	0.1945234	0.342409263						
SANTA CLARA	2017 T7 tractor	Aggregated	25 DSL	3902.933	0.553730714	0.630380267	2.015850649	8.382662586	0.018219473	1928.495886	0.164990744	0.157853317	0.303132697						
SANTA CLARA	2017 T7 tractor	Aggregated	30 DSL	4929.344	0.438290014	0.498959818	1.670489069	7.513127362	0.01634716	1730.315158	0.144008129	0.137778401	0.271981447						
SANTA CLARA	2017 T7 tractor	Aggregated	35 DSL	5749.47	0.350019056	0.398470051	1.394926717	6.843126355	0.014887091	1575.769706	0.130611339	0.124961151	0.247689054						
SANTA CLARA	2017 T7 tractor	Aggregated	40 DSL	7200.555	0.28659037	0.326261321	1.18291095	6.361945831	0.01381136	1461.905718	0.12479583	0.119397218	0.229791221						
SANTA CLARA	2017 T7 tractor	Aggregated	45 DSL	8486.598	0.246009579	0.28006318	1.030216804	6.068784792	0.013101031	1386.718785	0.126650603	0.121171754	0.217972882						
SANTA CLARA	2017 T7 tractor	Aggregated	50 DSL	12893.37	0.226456216	0.257803163	0.934208329	5.955379457	0.012741928	1348.708379	0.136349371	0.130450958	0.211998175						
SANTA CLARA	2017 T7 tractor	Aggregated	55 DSL	28946.14	0.226166419	0.257473252	0.893515322	6.025392727	0.012799572	1354.809892	0.154146171	0.147477876	0.212957248						
SANTA CLARA	2017 T7 tractor	Aggregated	60 DSL	91133.53	0.235741087	0.268373282	0.894657867	6.238437231	0.013219742	1399.284021	0.167527544	0.160280377	0.219947962						
SANTA CLARA	2017 T7 tractor	Aggregated	65 DSL	63004.49	0.239316243	0.272443326	0.911307475	6.593322554	0.013968989	1478.590448	0.171763909	0.164333479	0.232413828						
SANTA CLARA	2017 T7 tractor	Aggregated	70 DSL	19030.33	0.24040309	0.273680619	0.92154166	6.617064858	0.013968989	1478.590448	0.171763909	0.164333479	0.232413828						
SANTA CLARA	2017 T7 tractor	Aggregated	75 DSL	969.7343	0.241757801	0.275222854	0.935562331	6.615515971	0.013968989	1478.590448	0.171763909	0.164333479	0.232413828						
SANTA CLARA	2017 T7 tractor	Aggregated	80 DSL	0	0	0	0	0	0	0	0	0	0						
SANTA CLARA	2017 T7 tractor	Aggregated	85 DSL	0	0	0	0	0	0	0	0	0	0						
SANTA CLARA	2017 T7 tractor	Aggregated	90 DSL	0	0	0	0	0	0	0	0	0	0						
SANTA CLARA	2017 T7 tractor construction	Aggregated	5 DSL	3316.928	4.303425394	4.899122229	7.327028784	21.92363588	0.035459111	3753.278114	0.622960559	0.596011561	0.589963052						
SANTA CLARA	2017 T7 tractor construction	Aggregated	10 DSL	2281.502	3.27563223	3.729057949	5.880783814	17.78632641	0.03044191	3222.225731	0.518570856	0.49613771	0.506489013						
SANTA CLARA	2017 T7 tractor construction	Aggregated	15 DSL	484.6617	1.752338817	1.994904353	4.027616683	12.75583019	0.024567618	2600.434787	0.351961901	0.336736185	0.408752135						
SANTA CLARA	2017 T7 tractor construction	Aggregated	20 DSL	482.8127	0.871661834	0.992320646	2.852519666	10.09237223	0.020885575	2210.697645	0.237526802	0.227251497	0.347490884						



SANTA CLARA	2017 T7 tractor construction	Aggregated	25 DSL	651.2172	0.628345299	0.715323293	2.275254604	8.916782594	0.01850806	1959.042259	0.191791425	0.183494613	0.307934162
SANTA CLARA	2017 T7 tractor construction	Aggregated	30 DSL	781.7618	0.49778808	0.566693837	1.892720902	8.05665814	0.016744659	1772.389642	0.166639704	0.159430944	0.27859497
SANTA CLARA	2017 T7 tractor construction	Aggregated	35 DSL	1009.566	0.397878452	0.452954331	1.586511533	7.394491048	0.015371505	1627.044055	0.15035225	0.143848078	0.255748667
SANTA CLARA	2017 T7 tractor construction	Aggregated	40 DSL	1294.419	0.326256479	0.371418167	1.350329799	6.923538948	0.014367056	1520.725055	0.142933083	0.136749861	0.239036801
SANTA CLARA	2017 T7 tractor construction	Aggregated	45 DSL	1572.818	0.280847048	0.319722986	1.179996158	6.630832584	0.013718679	1452.095539	0.144495272	0.138244447	0.228249187
SANTA CLARA	2017 T7 tractor construction	Aggregated	50 DSL	1580.547	0.259698829	0.295647348	1.073005297	6.513159638	0.013418484	1420.320553	0.155251903	0.148535774	0.223254612
SANTA CLARA	2017 T7 tractor construction	Aggregated	55 DSL	1928.405	0.260865599	0.296975626	1.02819973	6.581841457	0.01346137	1424.859866	0.175511591	0.167919037	0.223968129
SANTA CLARA	2017 T7 tractor construction	Aggregated	60 DSL	7078.109	0.27249382	0.310213471	1.028856408	6.793393722	0.013868972	1468.003805	0.190404547	0.1821677731	0.230749755
SANTA CLARA	2017 T7 tractor construction	Aggregated	65 DSL	3470.236	0.27581874	0.313998639	1.044337389	7.088592904	0.014602568	1545.653553	0.194302538	0.185897096	0.242955214
SANTA CLARA	2017 T7 tractor construction	Aggregated	70 DSL	774.7985	0.276895771	0.315224757	1.054479142	7.121580308	0.014602568	1545.653553	0.194302538	0.185897096	0.242955214
SANTA CLARA	2017 T7 tractor construction	Aggregated	75 DSL	614.742	0.278238246	0.316753064	1.068373184	7.133383165	0.014602568	1545.653553	0.194302538	0.185897096	0.242955214
SANTA CLARA	2017 T7 tractor construction	Aggregated	80 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2017 T7 tractor construction	Aggregated	85 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2017 T7 tractor construction	Aggregated	90 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2017 T7 utility	Aggregated	5 DSL	16.93305	0.478267063	0.544470645	1.801890189	13.98615568	0.036063502	3817.251822	0.041233023	0.0394493	0.600018828
SANTA CLARA	2017 T7 utility	Aggregated	10 DSL	66.56434	0.366208229	0.416900192	1.288156025	11.56737225	0.030871074	3267.643355	0.035539161	0.034001752	0.513628031
SANTA CLARA	2017 T7 utility	Aggregated	15 DSL	65.57718	0.228572802	0.260212735	0.809371947	8.524965354	0.024928467	2638.629853	0.026720137	0.025564236	0.414755868
SANTA CLARA	2017 T7 utility	Aggregated	20 DSL	51.33765	0.148607577	0.169178415	0.562098893	6.821442248	0.021290309	2253.537895	0.020668724	0.019774605	0.354224775
SANTA CLARA	2017 T7 utility	Aggregated	25 DSL	62.66342	0.109934315	0.12515185	0.425090977	5.987888492	0.01886841	1997.184612	0.017961676	0.017184662	0.313929609
SANTA CLARA	2017 T7 utility	Aggregated	30 DSL	82.61992	0.083796845	0.095396329	0.327284958	5.380429282	0.017033904	1803.005753	0.016573208	0.015856259	0.283407396
SANTA CLARA	2017 T7 utility	Aggregated	35 DSL	102.178	0.064294198	0.07319405	0.252237472	4.907739619	0.01560833	1652.111462	0.015957983	0.015267648	0.259688915
SANTA CLARA	2017 T7 utility	Aggregated	40 DSL	140.5985	0.050026984	0.056951913	0.196094769	4.562704213	0.014565678	1541.748793	0.016090954	0.015394866	0.24234144
SANTA CLARA	2017 T7 utility	Aggregated	45 DSL	140.9727	0.039959877	0.045491278	0.156022499	4.335904114	0.013890702	1470.303832	0.016958449	0.016224834	0.231111287
SANTA CLARA	2017 T7 utility	Aggregated	50 DSL	135.038	0.03324802	0.03793775	0.129938917	4.228426845	0.013573787	1436.759089	0.018553776	0.017751148	0.225838521
SANTA CLARA	2017 T7 utility	Aggregated	55 DSL	210.9192	0.02954958	0.033639948	0.116318273	4.238220453	0.013608548	1440.438373	0.020875032	0.019971988	0.226416853
SANTA CLARA	2017 T7 utility	Aggregated	60 DSL	158.6333	0.029333264	0.033393688	0.11692184	4.360229754	0.014038502	1485.94827	0.023054903	0.022057558	0.233570375
SANTA CLARA	2017 T7 utility	Aggregated	65 DSL	1.539089	0.031221352	0.035543132	0.128204192	4.577084887	0.014824548	1569.149662	0.024736477	0.023666388	0.246648475
SANTA CLARA	2017 T7 utility	Aggregated	70 DSL	0.002704	0.031999868	0.036429414	0.135535014	4.555212994	0.014824548	1569.149662	0.024736477	0.023666388	0.246648475
SANTA CLARA	2017 T7 utility	Aggregated	75 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2017 T7 utility	Aggregated	80 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2017 T7 utility	Aggregated	85 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2017 T7 utility	Aggregated	90 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2017 T7IS	Aggregated	5 GAS	1.965269	8.545742027	12.05312911	127.5001551	12.29779956	0.054030457	5459.932381	0.01619623	0.014998492	0.375200486
SANTA CLARA	2017 T7IS	Aggregated	10 GAS	7.671912	5.546075659	7.807088049	102.7650939	10.76264868	0.043791428	4425.249213	0.010564116	0.009785562	0.326928225
SANTA CLARA	2017 T7IS	Aggregated	15 GAS	8.493952	3.789759565	5.322715183	86.05022949	9.64187876	0.035812436	3618.949224	0.007263502	0.00673261	0.291512402
SANTA CLARA	2017 T7IS	Aggregated	20 GAS	15.7083	2.723986402	3.814868254	74.17547465	8.860775375	0.029791755	3010.54212	0.005261881	0.004879337	0.266577329
SANTA CLARA	2017 T7IS	Aggregated	25 GAS	21.04476	2.066755796	2.888735642	65.6400322	8.196645361	0.025488304	2575.666099	0.004014366	0.003723953	0.245404808
SANTA CLARA	2017 T7IS	Aggregated	30 GAS	37.31689	1.652137686	2.305481673	59.3801363	7.695822291	0.022626659	2286.48871	0.003223914	0.002991727	0.229337574
SANTA CLARA	2017 T7IS	Aggregated	35 GAS	68.96985	1.389963244	1.936545091	54.77495005	7.348656477	0.020964455	2118.518235	0.002724381	0.002528952	0.218037126
SANTA CLARA	2017 T7IS	Aggregated	40 GAS	55.82299	1.230375014	1.711583432	51.50852213	7.131369438	0.020265812	2047.918325	0.002421665	0.002248556	0.210760764
SANTA CLARA	2017 T7IS	Aggregated	45 GAS	63.14375	1.144634854	1.589019475	49.41300811	7.071636127	0.020298015	2051.17258	0.002263522	0.002102198	0.208276096
SANTA CLARA	2017 T7IS	Aggregated	50 GAS	52.90356	1.121424522	1.555056767	48.63827009	7.054540936	0.020857032	2107.662829	0.002224149	0.002066016	0.207229921
SANTA CLARA	2017 T7IS	Aggregated	55 GAS	81.93942	1.156787224	1.603963393	49.3588076	7.07251422	0.021693681	2192.208528	0.002296971	0.002133971	0.20741081
SANTA CLARA	2017 T7IS	Aggregated	60 GAS	17.55255	1.250873633	1.730995799	51.86692809	7.333147005	0.022583546	2282.131968	0.002492787	0.00231613	0.21480597
SANTA CLARA	2017 T7IS	Aggregated	65 GAS	9.636242	1.424771638	1.970621772	57.14448972	7.608038188	0.023337056	2358.276303	0.002842504	0.002641227	0.222846702
SANTA CLARA	2017 UBUS	Aggregated	5 GAS	15.10796	0.073658009	0.107481594	0.575636902	0.53377725	0.041560152	4199.772364	0.000948989	0.000872561	0.043076456
SANTA CLARA	2017 UBUS	Aggregated	5 DSL	691.2394	0.008903183	0.201254757	0.690518773	4.295127573	0.024506551	2592.299296	0.007606395	0.007277345	0.407473349
SANTA CLARA	2017 UBUS	Aggregated	5 NG	147.0592	0.144211994	10.30085671	66.91382414	0.778261705	0	2886.70366	0.006564712	0.006807025	0.588473425
SANTA CLARA	2017 UBUS	Aggregated	10 GAS	50.23217	0.046349519	0.067633109	0.524279034	0.463716532	0.033738034	3409.324977	0.000597102	0.000549013	0.037422473
SANTA CLARA	2017 UBUS	Aggregated	10 DSL	2298.288	0.006721592	0.153552332	0.511591498	3.3717698	0.0207226	2192.033519	0.007020481	0.006716778	0.344551143
SANTA CLARA	2017 UBUS	Aggregated	10 NG	488.954	0.119938616	8.567043998	59.43598274	0.642808724	0	2481.728423	0.005380668	0.005147903	0.505916574
SANTA CLARA	2017 UBUS	Aggregated	15 GAS	85.22087	0.030778826	0.04491239	0.478951653	0.409104323	0.027590944	2788.143855	0.000396342	0.000364422	0.033015203
SANTA CLARA	2017 UBUS	Aggregated	15 DSL	3899.137	0.003761168	0.102712196	0.309945744	2.368818419	0.016597568	1755.688225	0.006134956	0.00586956	0.27596974
SANTA CLARA	2017 UBUS	Aggregated	15 NG	829.53	0.1057396	7.552828581	55.06172594	0.563573809	0	2244.833095	0.004340657	0.004152882	0.457623912
SANTA CLARA	2017 UBUS	Aggregated	20 GAS	745.7215	0.021538559	0.031429015	0.438261928	0.36754519	0.022934624	2317.609396	0.000277541	0.000255189	0.029661332
SANTA CLARA	2017 UBUS	Aggregated	20 DSL	34119.23	0.002187241	0.076731136	0.206569071	1.814133033	0.014194574	1501.49993	0.005631165	0.005387563	0.236014879
SANTA CLARA	2017 UBUS	Aggregated	20 NG	7258.766	0.095665238	6.833231291	51.95814135	0.507355743	0	2076.753186	0.003444679	0.003295664	0.423359723
SANTA CLARA	2017 UBUS	Aggregated	25 GAS	9.600245	0.016036361	0.023400221	0.405417901	0.329663086	0.019603411	1980.980838	0.000250531	0.000188518	0.026604202
SANTA CLARA	2017 UBUS	Aggregated	25 DSL	439.243	0.001776139	0.064532733	0.170960488	1.501483692	0.012757486	1349.485016	0.005561939	0.005321332	0.212120252

SANTA CLARA	2017	UBUS	Aggregated	25	NG	93.44766	0.087850956	6.275068269	49.55081411	0.463749623	0	1946.380279	0.002692733	0.002576247	0.396782353
SANTA CLARA	2017	UBUS	Aggregated	30	GAS	9.525839	0.012489861	0.018225176	0.372999934	0.305820033	0.01739471	1757.78525	0.000159788	0.000146919	0.024680039
SANTA CLARA	2017	UBUS	Aggregated	30	DSL	435.8387	0.001552602	0.0565418	0.153064319	1.265647293	0.011682253	1235.746986	0.005930453	0.005673904	0.194242217
SANTA CLARA	2017	UBUS	Aggregated	30	NG	92.7234	0.081466222	5.819015874	47.58388455	0.428120828	0	1839.857859	0.00208482	0.001994632	0.375067006
SANTA CLARA	2017	UBUS	Aggregated	35	GAS	13.23974	0.01023733	0.014938289	0.343292325	0.289622601	0.016124524	1629.429325	0.000131373	0.000120792	0.023372887
SANTA CLARA	2017	UBUS	Aggregated	35	DSL	605.7619	0.001371293	0.050535276	0.140873737	1.075617839	0.010833141	1145.928	0.006723745	0.006432878	0.180123924
SANTA CLARA	2017	UBUS	Aggregated	35	NG	128.8741	0.076068007	5.433429068	45.92086929	0.397997112	0	1749.794435	0.00162094	0.001550818	0.356707042
SANTA CLARA	2017	UBUS	Aggregated	40	GAS	18.40587	0.008869018	0.012941651	0.317386544	0.277790577	0.01560885	1577.31895	0.000113946	0.00010477	0.022418029
SANTA CLARA	2017	UBUS	Aggregated	40	DSL	842.1296	0.001222668	0.045831578	0.132741311	0.931395328	0.010210149	1080.028057	0.007941814	0.007598255	0.16976537
SANTA CLARA	2017	UBUS	Aggregated	40	NG	179.1606	0.07139186	5.099418584	44.48029995	0.371902762	0	1671.777949	0.001301092	0.001244807	0.340802871
SANTA CLARA	2017	UBUS	Aggregated	45	GAS	15.47235	0.008125841	0.011857208	0.294926867	0.269096923	0.015663667	1582.858368	0.000104263	9.58661E-05	0.02171644
SANTA CLARA	2017	UBUS	Aggregated	45	DSL	707.9112	0.001101387	0.042049108	0.127778517	0.832979762	0.009813279	1038.047157	0.009584662	0.009170034	0.163166557
SANTA CLARA	2017	UBUS	Aggregated	45	NG	150.606	0.067267206	4.804800457	43.20962774	0.348885914	0	1602.962531	0.001125276	0.001076598	0.326774398
SANTA CLARA	2017	UBUS	Aggregated	50	GAS	13.69829	0.007800882	0.011383029	0.273006231	0.268934934	0.016123318	1629.30741	0.000100646	9.25402E-05	0.021703368
SANTA CLARA	2017	UBUS	Aggregated	50	DSL	626.7421	0.001004203	0.038956128	0.12546272	0.780371139	0.009642529	1019.9853	0.011652287	0.011148215	0.160327485
SANTA CLARA	2017	UBUS	Aggregated	50	NG	133.3375	0.063577578	4.541255562	42.07297272	0.328296642	0	1541.405042	0.001093494	0.00104619	0.314225501
SANTA CLARA	2017	UBUS	Aggregated	55	GAS	20.12437	0.007895511	0.011521112	0.253243081	0.273442346	0.016785424	1696.215164	0.000102493	9.42389E-05	0.022067121
SANTA CLARA	2017	UBUS	Aggregated	55	DSL	920.7568	0.000929024	0.036403059	0.125465866	0.773569461	0.009697901	1025.842487	0.014144691	0.013532798	0.161248153
SANTA CLARA	2017	UBUS	Aggregated	55	NG	195.8883	0.060239903	4.302850205	41.04474318	0.30967138	0	1485.71952	0.001205744	0.001153584	0.302873643
SANTA CLARA	2017	UBUS	Aggregated	60	GAS	27.46202	0.008450471	0.012330908	0.236084412	0.280687377	0.017465991	1764.98844	0.000110111	0.000101243	0.022651804
SANTA CLARA	2017	UBUS	Aggregated	60	DSL	1256.478	0.000886246	0.034368975	0.124709954	0.808543862	0.009975767	1055.235129	0.016917367	0.016185529	0.165868267
SANTA CLARA	2017	UBUS	Aggregated	60	NG	267.3121	0.057192844	4.085203167	40.10604315	0.292667848	0	1434.882622	0.001462027	0.00139878	0.292510209
SANTA CLARA	2017	UBUS	Aggregated	65	GAS	3.976035	0.009646975	0.014076843	0.223034463	0.286593333	0.017999448	1818.895734	0.000124796	0.000114745	0.023128421
SANTA CLARA	2017	UBUS	Aggregated	65	DSL	181.9168	0.000862898	0.032701294	0.121950761	0.872816006	0.010461503	1106.616232	0.019934671	0.019072306	0.173944661
SANTA CLARA	2017	UBUS	Aggregated	65	NG	38.70226	0.054389822	3.8849873	39.24252284	0.277026114	0	1388.117208	0.001862342	0.001781778	0.282976774
SANTA CLARA	2017	UBUS	Aggregated	70	GAS	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2017	UBUS	Aggregated	70	DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2017	UBUS	Aggregated	70	NG	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2017	UBUS	Aggregated	75	GAS	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2017	UBUS	Aggregated	75	DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2017	UBUS	Aggregated	75	NG	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2017	UBUS	Aggregated	80	GAS	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2017	UBUS	Aggregated	80	DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2017	UBUS	Aggregated	80	NG	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2017	UBUS	Aggregated	85	GAS	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2017	UBUS	Aggregated	85	DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2017	UBUS	Aggregated	85	NG	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2017	UBUS	Aggregated	90	GAS	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2017	UBUS	Aggregated	90	DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2017	UBUS	Aggregated	90	NG	0	0	0	0	0	0	0	0	0	0

VMT Cross-Check

Web tool: 43943338 \*doesn't include PTO truck (deleted VMT from line 246). PTO isn't included in desktop EMFAC2017 model for unknown reason

Desktop Model: 43943338

Difference: 0

**VTM from EMFAC2017 Web Tool - 2023**

EMFAC2017 (v1.0.2) Emission Rates

Region Type: County

Region: SANTA CLARA

Calendar Year: 2023

Season: Annual

Vehicle Classification: EMFAC2011 Categories

Units: miles/day for VMT, g/mile for RUNEX, PMBW and PMTW

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	VMT	ROG_RUNEX	TOG_RUNEX	CO_RUNEX	NOx_RUNEX	SOx_RUNEX	CO2_RUNEX	PM10_RUNEX	PM2_5_RUNEX	N2O_RUNEX
SANTA CLARA	2023	All Other Buses	Aggregated	5	DSL	648.8706	0.056072483	0.063834254	0.853191102	7.280260509	0.023089103	2443.936813	0.005607935	0.005365338	0.384152833
SANTA CLARA	2023	All Other Buses	Aggregated	10	DSL	1961.609	0.035185998	0.04005658	0.524553313	5.562894076	0.019089779	2020.61607	0.00493164	0.004718299	0.317612707
SANTA CLARA	2023	All Other Buses	Aggregated	15	DSL	2231.218	0.019561462	0.022269236	0.28420891	3.967778934	0.015022058	1590.055692	0.003907053	0.003738036	0.249934612
SANTA CLARA	2023	All Other Buses	Aggregated	20	DSL	2591.365	0.013287945	0.015127314	0.189813844	3.177956247	0.012828601	1357.882568	0.003319807	0.003176193	0.21344023
SANTA CLARA	2023	All Other Buses	Aggregated	25	DSL	3151.909	0.010435219	0.011879703	0.145074869	2.487894346	0.011195316	1185.002511	0.003169899	0.003032771	0.186265893
SANTA CLARA	2023	All Other Buses	Aggregated	30	DSL	4297.924	0.00844001	0.009608309	0.111294292	1.866777306	0.009835499	1041.068471	0.003457331	0.003307768	0.163641466
SANTA CLARA	2023	All Other Buses	Aggregated	35	DSL	7905.564	0.006950873	0.00791304	0.0838908	1.374982759	0.008790934	930.5033404	0.004182102	0.004001186	0.146262167
SANTA CLARA	2023	All Other Buses	Aggregated	40	DSL	9398.775	0.00596781	0.006793897	0.062864393	1.015634267	0.008061623	853.3071191	0.005344212	0.005113024	0.134127996
SANTA CLARA	2023	All Other Buses	Aggregated	45	DSL	5957.156	0.00549082	0.006250881	0.048215071	0.787662407	0.007647564	809.4798084	0.006943662	0.006643283	0.127238953
SANTA CLARA	2023	All Other Buses	Aggregated	50	DSL	1758.705	0.005519903	0.006283989	0.039942835	0.691270156	0.007548758	799.021407	0.008980451	0.008591961	0.125595038
SANTA CLARA	2023	All Other Buses	Aggregated	55	DSL	435.411	0.006055059	0.006893224	0.038047685	0.727289065	0.007765205	821.9319163	0.01145458	0.01095906	0.129196251
SANTA CLARA	2023	All Other Buses	Aggregated	60	DSL	31.98659	0.007096289	0.008078585	0.04252962	0.892742358	0.008296905	878.2113362	0.014366048	0.013744579	0.138042592
SANTA CLARA	2023	All Other Buses	Aggregated	65	DSL	0.015231	0.008643591	0.009840071	0.05338864	1.190164932	0.009143858	967.8596655	0.017714855	0.016948518	0.152134061
SANTA CLARA	2023	All Other Buses	Aggregated	70	DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023	All Other Buses	Aggregated	75	DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023	All Other Buses	Aggregated	80	DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023	All Other Buses	Aggregated	85	DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023	All Other Buses	Aggregated	90	DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023	LDA	Aggregated	5	GAS	36823.6	0.05342374	0.077946465	1.116158406	0.062119462	0.006050074	611.3772771	0.009538072	0.008769934	0.007475682
SANTA CLARA	2023	LDA	Aggregated	5	DSL	386.2756	0.178577139	0.2032982	3.351562338	0.136486282	0.004766354	504.1842251	0.018978677	0.018157668	0.079250739
SANTA CLARA	2023	LDA	Aggregated	10	GAS	25504.51	0.033577657	0.048989889	1.003820063	0.054478257	0.004889686	494.1167705	0.006010125	0.005521627	0.006572242
SANTA CLARA	2023	LDA	Aggregated	10	DSL	267.5395	0.132784029	0.151165789	2.505556188	0.119479685	0.003970823	420.0330501	0.014795551	0.014155502	0.066023346
SANTA CLARA	2023	LDA	Aggregated	15	GAS	108543.8	0.022451807	0.032756873	0.914781002	0.047813584	0.004001694	404.3826194	0.003994966	0.003673238	0.00577876
SANTA CLARA	2023	LDA	Aggregated	15	DSL	1138.612	0.067697374	0.077068959	1.239777904	0.090657162	0.003265991	345.4759884	0.011655478	0.011151267	0.054304014
SANTA CLARA	2023	LDA	Aggregated	20	GAS	397272.1	0.01582538	0.023088742	0.837088186	0.042803814	0.003329508	336.4563041	0.002801066	0.002575487	0.005179627
SANTA CLARA	2023	LDA	Aggregated	20	DSL	4167.341	0.02956095	0.033653176	0.500800398	0.071182227	0.002679173	283.4024854	0.009370151	0.008964802	0.044546924
SANTA CLARA	2023	LDA	Aggregated	25	GAS	958860.5	0.011745434	0.017136031	0.767310178	0.039004214	0.002846319	287.6287195	0.002071507	0.001904683	0.004723149
SANTA CLARA	2023	LDA	Aggregated	25	DSL	10058.34	0.019050476	0.021687701	0.309120795	0.062979267	0.002245794	237.5597686	0.007745487	0.007410421	0.037341087
SANTA CLARA	2023	LDA	Aggregated	30	GAS	7735176	0.00919195	0.013410476	0.706048255	0.036095882	0.002526597	255.3199038	0.001615762	0.001485641	0.004372065
SANTA CLARA	2023	LDA	Aggregated	30	DSL	81141.15	0.014809072	0.016859144	0.237139605	0.059355302	0.00194527	205.7703504	0.006665615	0.006377263	0.032344234
SANTA CLARA	2023	LDA	Aggregated	35	GAS	1684955	0.007563807	0.011035	0.650270861	0.034088117	0.002339731	236.4364669	0.001329168	0.001222127	0.004128114
SANTA CLARA	2023	LDA	Aggregated	35	DSL	17675	0.012120598	0.013798494	0.191917118	0.057465624	0.001758485	186.0122519	0.005928589	0.005672121	0.029238536
SANTA CLARA	2023	LDA	Aggregated	40	GAS	1734147	0.006564532	0.009577046	0.60143393	0.03263734	0.002263615	228.7447554	0.001153138	0.001060274	0.003950174
SANTA CLARA	2023	LDA	Aggregated	40	DSL	18191.01	0.010336781	0.011767738	0.16177855	0.056552153	0.001645548	174.0658442	0.005429554	0.005194674	0.027360727
SANTA CLARA	2023	LDA	Aggregated	45	GAS	3305219	0.006013203	0.008772641	0.559481188	0.031714078	0.00227311	229.7043199	0.001055059	0.000970093	0.003834811
SANTA CLARA	2023	LDA	Aggregated	45	DSL	34671.39	0.009137802	0.01040278	0.141124532	0.05626246	0.001589473	168.1342335	0.005110034	0.004888976	0.02642836
SANTA CLARA	2023	LDA	Aggregated	50	GAS	1143969	0.005791674	0.008449392	0.520763922	0.031383861	0.002338032	236.2648198	0.001018054	0.000936068	0.003789642
SANTA CLARA	2023	LDA	Aggregated	50	DSL	12000.11	0.008356462	0.009513277	0.127090857	0.056392521	0.001593519	168.5622328	0.00494029	0.004726575	0.026495636
SANTA CLARA	2023	LDA	Aggregated	55	GAS	2203903	0.005890553	0.008593602	0.487891696	0.031535916	0.002436359	246.2010588	0.001036034	0.0009526	0.003801079
SANTA CLARA	2023	LDA	Aggregated	55	DSL	23118.7	0.007908657	0.00900348	0.118268709	0.056818503	0.001667492	176.3871032	0.004911588	0.004699115	0.027725596
SANTA CLARA	2023	LDA	Aggregated	60	GAS	5219471	0.006278579	0.009159623	0.45584786	0.032573566	0.002529414	255.6045487	0.001111997	0.001022446	0.003916652
SANTA CLARA	2023	LDA	Aggregated	60	DSL	54751.67	0.007993218	0.009099748	0.118825845	0.057976208	0.001807762	191.2248013	0.005094363	0.004873983	0.030057876
SANTA CLARA	2023	LDA	Aggregated	65	GAS	2185966	0.007090023	0.010343393	0.42984575	0.033835893	0.002608282	263.5743704	0.001258879	0.0011575	0.004056142
SANTA CLARA	2023	LDA	Aggregated	65	DSL	22930.55	0.008562027	0.009747299	0.12786727	0.059550241	0.00203229	214.9753779	0.005509204	0.005270878	0.033791136
SANTA CLARA	2023	LDT1	Aggregated	5	GAS	3408.847	0.115346126	0.168280958	1.913555122	0.149859461	0.007025446	709.9414703	0.011855143	0.010905084	0.01215046
SANTA CLARA	2023	LDT1	Aggregated	5	DSL	0.85452	0.865931533	0.985805479	3.813902163	0.805911093	0.009668442	1022.726303	0.640483507	0.612776474	0.160758333
SANTA CLARA	2023	LDT1	Aggregated	10	GAS	2361.012	0.074259206	0.108336388	1.688724253	0.128298719	0.005681908	574.1730624	0.007539162	0.006932134	0.010508814
SANTA CLARA	2023	LDT1	Aggregated	10	DSL	0.591851	0.607168346	0.691220794	2.736945531	0.838429414	0.00813857	860.8967676	0.44651119	0.427195314	0.135320983
SANTA CLARA	2023	LDT1	Aggregated	15	GAS	10048.15	0.050724406	0.074000584	1.515356304	0.110522049	0.004649964	469.892132	0.005055101	0.00464809	0.009124677

SANTA CLARA	2023	LDT1	Aggregated	15	DSL	2.518841	0.42736728	0.486529235	1.904567198	0.86537762	0.006748216	713.8253037	0.325630479	0.311543849	0.112203397
SANTA CLARA	2023	LDT1	Aggregated	20	GAS	36776.4	0.036433201	0.053150766	1.370775073	0.097631795	0.003868757	390.9489518	0.003572226	0.003284615	0.008105961
SANTA CLARA	2023	LDT1	Aggregated	20	DSL	9.219	0.314440452	0.357969549	1.393277167	0.897548548	0.005544175	586.4619841	0.248428316	0.237681417	0.092183657
SANTA CLARA	2023	LDT1	Aggregated	25	GAS	88763.96	0.027467776	0.04007096	1.24640154	0.088215565	0.003307516	334.2339881	0.002659315	0.002445210	0.007349884
SANTA CLARA	2023	LDT1	Aggregated	25	DSL	22.25109	0.248502727	0.282903833	1.131877218	0.935574227	0.004648591	491.7272328	0.198285662	0.189707912	0.077292673
SANTA CLARA	2023	LDT1	Aggregated	30	GAS	716063.3	0.021751715	0.03173176	1.14084686	0.081303199	0.002935914	296.6825084	0.002084809	0.001916961	0.006784712
SANTA CLARA	2023	LDT1	Aggregated	30	DSL	179.5006	0.206879255	0.235518278	0.981400875	0.976223945	0.004019715	425.204898	0.165603896	0.158439945	0.066836289
SANTA CLARA	2023	LDT1	Aggregated	35	GAS	155980.3	0.018040691	0.026317688	1.048260878	0.076792949	0.007619057	274.768454	0.001720719	0.001582187	0.006406446
SANTA CLARA	2023	LDT1	Aggregated	35	DSL	39.10067	0.180297339	0.205256533	0.896980749	1.018546007	0.003627948	383.7637623	0.144704607	0.13844475	0.060322319
SANTA CLARA	2023	LDT1	Aggregated	40	GAS	160534	0.015709225	0.02291626	0.969627448	0.073825353	0.002630515	265.8211165	0.001494942	0.001374588	0.006146485
SANTA CLARA	2023	LDT1	Aggregated	40	DSL	40.24219	0.164429752	0.187192341	0.863613277	1.061497747	0.003386038	358.1745972	0.132280403	0.126558011	0.056300059
SANTA CLARA	2023	LDT1	Aggregated	45	GAS	305971.9	0.014369507	0.020961667	0.9042163	0.072309064	0.002640861	266.8665861	0.001367045	0.00125699	0.005998105
SANTA CLARA	2023	LDT1	Aggregated	45	DSL	76.70012	0.156902521	0.178623089	0.875774165	1.105070323	0.003264715	345.3410759	0.12650134	0.121028948	0.054282808
SANTA CLARA	2023	LDT1	Aggregated	50	GAS	105899.9	0.013763117	0.020076845	0.846446231	0.072439029	0.002716112	274.4709327	0.001315866	0.001209933	0.005975813
SANTA CLARA	2023	LDT1	Aggregated	50	DSL	26.54666	0.156652337	0.178338271	0.935505781	1.149132865	0.003270139	345.9147653	0.126556416	0.121081641	0.054372984
SANTA CLARA	2023	LDT1	Aggregated	55	GAS	204020.5	0.013858767	0.020216162	0.799947006	0.074006712	0.002829505	285.9295622	0.001333474	0.001226125	0.006060677
SANTA CLARA	2023	LDT1	Aggregated	55	DSL	51.14324	0.163657307	0.186312963	1.052848464	1.193583175	0.003419196	361.682067	0.132459558	0.126729416	0.056851384
SANTA CLARA	2023	LDT1	Aggregated	60	GAS	483178.6	0.0145817	0.021270424	0.757772098	0.078140066	0.002938208	296.9143624	0.001423044	0.001308485	0.006338648
SANTA CLARA	2023	LDT1	Aggregated	60	DSL	121.1218	0.179043991	0.20382968	1.249687559	1.239865984	0.003703689	391.7757178	0.14507674	0.138800785	0.061581687
SANTA CLARA	2023	LDT1	Aggregated	65	GAS	202360	0.016190692	0.023617269	0.727927065	0.08341352	0.003029362	306.1257371	0.001599797	0.001471009	0.006688563
SANTA CLARA	2023	LDT1	Aggregated	65	DSL	50.72701	0.205061977	0.233449427	1.563537844	1.284638062	0.004160077	440.052298	0.166275587	0.159082579	0.069170093
SANTA CLARA	2023	LDT2	Aggregated	5	GAS	11422.8	0.089240105	0.130208811	1.546652154	0.127613591	0.007598935	767.8941779	0.009600449	0.008827315	0.010914508
SANTA CLARA	2023	LDT2	Aggregated	5	DSL	90.89557	0.2606586	0.296742486	2.426662934	0.154688427	0.006459632	683.2988837	0.012809051	0.012254937	0.107405069
SANTA CLARA	2023	LDT2	Aggregated	10	GAS	7911.578	0.056630392	0.082627778	1.38389499	0.110634523	0.006147688	621.2414376	0.006060009	0.005571994	0.00952645
SANTA CLARA	2023	LDT2	Aggregated	10	DSL	62.95546	0.194830293	0.221801335	1.815705797	0.130218024	0.005437502	575.1781277	0.010980882	0.010505854	0.090409992
SANTA CLARA	2023	LDT2	Aggregated	15	GAS	33670.62	0.038197741	0.055732846	1.255597846	0.096233047	0.005030773	508.3740353	0.004034826	0.003709902	0.008329466
SANTA CLARA	2023	LDT2	Aggregated	15	DSL	267.93	0.096078691	0.109379202	0.890799467	0.0898467	0.004508585	476.9174623	0.0091426	0.008747095	0.074964784
SANTA CLARA	2023	LDT2	Aggregated	20	GAS	123235	0.027132389	0.039587545	1.145072855	0.085587974	0.00418517	422.923389	0.002833266	0.002605105	0.007435657
SANTA CLARA	2023	LDT2	Aggregated	20	DSL	980.6284	0.038425951	0.04374539	0.351178777	0.062022707	0.003704147	391.8241056	0.007601662	0.007272818	0.061589293
SANTA CLARA	2023	LDT2	Aggregated	25	GAS	297441.5	0.020266551	0.029569733	1.047082953	0.077651189	0.003577899	361.5569644	0.002097981	0.001929034	0.006762281
SANTA CLARA	2023	LDT2	Aggregated	25	DSL	2366.856	0.023497661	0.026750525	0.212995478	0.04934648	0.003105794	328.530388	0.006416841	0.006139251	0.005616401
SANTA CLARA	2023	LDT2	Aggregated	30	GAS	2399476	0.015936033	0.023251181	0.961890734	0.071688377	0.003175817	320.9254454	0.001638004	0.001506099	0.006250533
SANTA CLARA	2023	LDT2	Aggregated	30	DSL	19093.55	0.017887912	0.020364199	0.161829266	0.042814103	0.002685633	284.0858119	0.005617132	0.005374137	0.044654333
SANTA CLARA	2023	LDT2	Aggregated	35	GAS	522678.4	0.013152406	0.019189652	0.885197629	0.067667818	0.002941528	297.2498423	0.001348309	0.001239733	0.005900297
SANTA CLARA	2023	LDT2	Aggregated	35	DSL	4159.153	0.014337567	0.016322366	0.129543551	0.03858218	0.002423887	256.3983634	0.005044816	0.00482658	0.040302252
SANTA CLARA	2023	LDT2	Aggregated	40	GAS	537937.8	0.011425958	0.016670628	0.818602082	0.0648731	0.002846009	287.5973994	0.001170034	0.001075815	0.005650822
SANTA CLARA	2023	LDT2	Aggregated	40	DSL	4280.577	0.01193305	0.013584984	0.107709162	0.035657334	0.002262263	239.3018559	0.004624766	0.004424701	0.037614919
SANTA CLARA	2023	LDT2	Aggregated	45	GAS	1025289	0.0104549	0.015253764	0.761839101	0.063235444	0.00285726	288.7342566	0.001070367	0.000988174	0.005496615
SANTA CLARA	2023	LDT2	Aggregated	45	DSL	8158.62	0.01023026	0.01164647	0.092260182	0.033559146	0.002181205	230.7275865	0.004314812	0.004128155	0.036267164
SANTA CLARA	2023	LDT2	Aggregated	50	GAS	354862.7	0.010039871	0.014648161	0.71005791	0.062902333	0.002939049	296.99928	0.001032289	0.000949163	0.005449666
SANTA CLARA	2023	LDT2	Aggregated	50	DSL	2823.778	0.008992116	0.010236926	0.081049278	0.032014413	0.002184829	231.1108771	0.004091255	0.0009314269	0.036327411
SANTA CLARA	2023	LDT2	Aggregated	55	GAS	683657.6	0.010161765	0.014825948	0.666552689	0.063670792	0.003061719	309.3955168	0.001049613	0.000965092	0.005491297
SANTA CLARA	2023	LDT2	Aggregated	55	DSL	5440.126	0.008085204	0.009204467	0.072894918	0.030858201	0.002284417	241.6452494	0.003942379	0.003771834	0.037983268
SANTA CLARA	2023	LDT2	Aggregated	60	GAS	1619096	0.010763568	0.015703893	0.624793809	0.066424386	0.003179978	321.3459039	0.001125266	0.001036463	0.005694227
SANTA CLARA	2023	LDT2	Aggregated	60	DSL	12883.77	0.007795265	0.008874391	0.070576953	0.030628545	0.002474491	261.7512718	0.003944201	0.003773577	0.041143655
SANTA CLARA	2023	LDT2	Aggregated	65	GAS	678093.6	0.012061239	0.017597135	0.591559632	0.069882041	0.003278504	331.3022661	0.001272126	0.001169687	0.005945082
SANTA CLARA	2023	LDT2	Aggregated	65	DSL	5395.851	0.007983532	0.009088721	0.072912919	0.031025865	0.00277941	294.0055839	0.004088514	0.003911647	0.046213584
SANTA CLARA	2023	LHD1	Aggregated	5	GAS	17506.41	0.144998061	0.21158083	1.650245235	0.293772482	0.018467026	1866.145887	0.00794736	0.007307305	0.01849855
SANTA CLARA	2023	LHD1	Aggregated	5	DSL	9126.658	0.741464065	0.844107542	2.862518228	1.324083319	0.011086917	1172.772404	0.050595094	0.048406373	0.18434349
SANTA CLARA	2023	LHD1	Aggregated	10	GAS	38289.27	0.095489064	0.139337418	1.301467345	0.259054746	0.014989622	1514.744227	0.005032102	0.004626832	0.016203642
SANTA CLARA	2023	LHD1	Aggregated	10	DSL	23361.16	0.545773633	0.621326996	2.114143248	1.32290973	0.009320283	985.8981926	0.038452101	0.03678868	0.154969466
SANTA CLARA	2023	LHD1	Aggregated	15	GAS	97520.94	0.06613324	0.096501468	1.06912294	0.23328529	0.012257854	1238.691239	0.003361478	0.003090755	0.01448778
SANTA CLARA	2023	LHD1	Aggregated	15	DSL	58818.61	0.296078273	0.337065429	1.170442256	1.291380647	0.006086925	643.8740213	0.029801089	0.028511907	0.10120803
SANTA CLARA	2023	LHD1	Aggregated	20	GAS	110238.6	0.048023703	0.070076074	0.906552876	0.214838539	0.010188967	1029.624314	0.002368772	0.002177998	0.013243671
SANTA CLARA	2023	LHD1	Aggregated	20	DSL	62831.9	0.148627289	0.169202287	0.613772663	1.285736701	0.005188184	548.8053739	0.0023707191	0.002681628	0.086264562
SANTA CLARA	2023	LHD1	Aggregated	25	GAS	86794.2	0.036535632	0.053312709	0.789026589	0.202809207	0.008708898	880.0590895	0.001760684	0.001618884	0.012407332
SANTA CLARA	2023	LHD1	Aggregated	25	DSL	66151.68	0.10272177	0.116941906	0.440283178	1.318688689	0.004601425	486.7380994	0.019463977	0.018621974	0.076508451
SANTA CLARA	2023	LHD1	Aggregated	30	GAS	73566.63	0.029482336	0.043020555	0.709887496	0.0191754605	0.007727642	780.9003172	0.001380245	0.001269085	0.011649266
SANTA CLARA	2023	LHD1	Aggregated	30	DSL	52972.75	0.08192516	0.093266348	0.363312668	1.359500818	0.004178592	442.0108146	0.016655763	0.015935242	0.069477945

SANTA CLARA	2023 LHD1	Aggregated	35 GAS	28481.02	0.024730336	0.036086448	0.648118246	0.18761537	0.007163134	723.8552402	0.001141045	0.001049148	0.011318263
SANTA CLARA	2023 LHD1	Aggregated	35 DSL	28970.09	0.068712932	0.078225105	0.317241631	1.41362771	0.004178592	442.0108146	0.014765526	0.014126776	0.069477945
SANTA CLARA	2023 LHD1	Aggregated	40 GAS	7641.922	0.021692048	0.031652986	0.603584723	0.188206569	0.006933706	700.670869	0.000994658	0.000914551	0.011278505
SANTA CLARA	2023 LHD1	Aggregated	40 DSL	15105.6	0.060214311	0.068549989	0.291710567	1.4711593	0.004066418	429.9102215	0.013518071	0.012933285	0.0675759
SANTA CLARA	2023 LHD1	Aggregated	45 GAS	8480.039	0.020415212	0.029789829	0.586738814	0.184320666	0.00695788	703.1137337	0.000914168	0.000840544	0.010994271
SANTA CLARA	2023 LHD1	Aggregated	45 DSL	15014.34	0.054976837	0.062587473	0.282128633	1.523399428	0.003964305	419.3435934	0.012760201	0.0122082	0.065914973
SANTA CLARA	2023 LHD1	Aggregated	50 GAS	74457.96	0.020651899	0.030135202	0.598482304	0.176667222	0.007162182	723.7589759	0.00088577	0.000814433	0.010508971
SANTA CLARA	2023 LHD1	Aggregated	50 DSL	65652.86	0.052268075	0.059503728	0.287247476	1.573994888	0.004156044	439.6257068	0.012416255	0.011879133	0.069103039
SANTA CLARA	2023 LHD1	Aggregated	55 GAS	19164.98	0.02071878	0.030232796	0.602457324	0.187967844	0.007456161	753.4664395	0.00090474	0.000831875	0.011136731
SANTA CLARA	2023 LHD1	Aggregated	55 DSL	37993	0.051797212	0.058967682	0.308494713	1.639139679	0.004342918	459.3932624	0.012468739	0.011929347	0.072210223
SANTA CLARA	2023 LHD2	Aggregated	5 GAS	2427.465	0.111940533	0.163343363	1.006920371	0.311489173	0.021033248	2125.469931	0.007688057	0.007068885	0.020145773
SANTA CLARA	2023 LHD2	Aggregated	5 DSL	3590.837	0.740617981	0.843144331	2.924701322	1.185439263	0.011740167	1241.873118	0.051041698	0.048833657	0.19520516
SANTA CLARA	2023 LHD2	Aggregated	10 GAS	5309.245	0.071759398	0.104711145	0.858589435	0.270883673	0.017074208	1725.397572	0.004846742	0.004456401	0.017484758
SANTA CLARA	2023 LHD2	Aggregated	10 DSL	9191.328	0.546786403	0.622479967	2.165814824	1.167190691	0.010433853	1103.69144	0.039970093	0.038241005	0.173484925
SANTA CLARA	2023 LHD2	Aggregated	15 GAS	13522.39	0.04844548	0.070691531	0.749127359	0.240368642	0.013963332	1411.034668	0.0032235	0.005481697	0.015481697
SANTA CLARA	2023 LHD2	Aggregated	15 DSL	23141.88	0.2913252	0.331654372	1.171035894	1.113392861	0.006945502	734.694203	0.03157554	0.030209596	0.115483697
SANTA CLARA	2023 LHD2	Aggregated	20 GAS	15285.84	0.034365227	0.050145659	0.663574582	0.217997684	0.011607001	1172.920732	0.002261713	0.002079562	0.014008871
SANTA CLARA	2023 LHD2	Aggregated	20 DSL	24720.89	0.140834641	0.160330876	0.585696216	1.089304313	0.005924003	626.6401058	0.025429593	0.02432952	0.098499098
SANTA CLARA	2023 LHD2	Aggregated	25 GAS	12035.01	0.025600831	0.037356673	0.594310771	0.202661514	0.009921177	1002.563317	0.001674032	0.001539211	0.012992862
SANTA CLARA	2023 LHD2	Aggregated	25 DSL	26027.04	0.095648556	0.108889522	0.410614523	1.107345656	0.005279213	558.43438	0.021044336	0.020133967	0.087778108
SANTA CLARA	2023 LHD2	Aggregated	30 GAS	10200.86	0.020243363	0.029539068	0.542279914	0.188776739	0.008803426	889.6114434	0.001307044	0.001201797	0.0120755025
SANTA CLARA	2023 LHD2	Aggregated	30 DSL	20841.85	0.07581383	0.086309005	0.335420223	1.135926303	0.004761008	503.6187354	0.01812738	0.017343197	0.079161852
SANTA CLARA	2023 LHD2	Aggregated	35 GAS	3949.219	0.016704098	0.024374581	0.495906386	0.182137076	0.008160442	824.6360544	0.001076474	0.000898778	0.011624452
SANTA CLARA	2023 LHD2	Aggregated	35 DSL	11398.13	0.063220175	0.071971966	0.290005944	1.17708558	0.004761008	503.6187354	0.016131767	0.015433914	0.079161852
SANTA CLARA	2023 LHD2	Aggregated	40 GAS	1059.64	0.014457954	0.021097013	0.456722565	0.180453229	0.007899167	798.2334562	0.000935165	0.000859849	0.01149337
SANTA CLARA	2023 LHD2	Aggregated	40 DSL	5943.219	0.05505283	0.062673986	0.263873561	1.221916726	0.004587114	485.2241857	0.014774711	0.014135563	0.076270485
SANTA CLARA	2023 LHD2	Aggregated	45 GAS	1175.854	0.01341445	0.019574334	0.432467882	0.174849195	0.00792666	801.0116682	0.000856897	0.000787885	0.011117628
SANTA CLARA	2023 LHD2	Aggregated	45 DSL	5907.313	0.049897667	0.056805176	0.25228988	1.26290278	0.004409343	466.4196242	0.013898459	0.013297218	0.07331467
SANTA CLARA	2023 LHD2	Aggregated	50 GAS	10324.45	0.013360893	0.019496184	0.422550066	0.166249612	0.008159149	824.5053621	0.000828158	0.00076146	0.010557815
SANTA CLARA	2023 LHD2	Aggregated	50 DSL	25830.78	0.047034338	0.053545467	0.253712802	1.302903714	0.004571746	483.5986441	0.013422386	0.01284174	0.076014972
SANTA CLARA	2023 LHD2	Aggregated	55 GAS	2657.444	0.013352671	0.019484187	0.402366311	0.175815724	0.008493844	858.327223	0.000844168	0.000776182	0.011153185
SANTA CLARA	2023 LHD2	Aggregated	55 DSL	14948.15	0.046155169	0.052544591	0.269015388	1.355186007	0.004731978	500.5478894	0.013321951	0.01274565	0.078679158
SANTA CLARA	2023 MCY	Aggregated	5 GAS	333.9083	12.63905701	15.72503418	47.69321082	1.583090655	0.0053273	538.3388758	0.011646452	0.010876508	0.091443387
SANTA CLARA	2023 MCY	Aggregated	10 GAS	231.2693	8.284850388	10.29847009	36.92315404	1.447822752	0.004223971	426.8443416	0.007551331	0.007053159	0.083586177
SANTA CLARA	2023 MCY	Aggregated	15 GAS	984.2511	5.684457603	7.061487471	29.41983325	1.330675866	0.003402153	343.7973517	0.005162712	0.004822803	0.016783459
SANTA CLARA	2023 MCY	Aggregated	20 GAS	3602.376	4.114074607	5.107467602	24.50563956	1.245903598	0.002806344	283.589077	0.003720243	0.003475768	0.071855641
SANTA CLARA	2023 MCY	Aggregated	25 GAS	8694.736	3.137273222	3.892501264	21.18765244	1.185697191	0.002388571	241.3719611	0.002824383	0.002639105	0.068350618
SANTA CLARA	2023 MCY	Aggregated	30 GAS	70140.88	2.516835927	3.121085034	18.90972863	1.143302757	0.002111371	213.3600499	0.002258194	0.002110296	0.065877855
SANTA CLARA	2023 MCY	Aggregated	35 GAS	15278.81	2.128936818	2.638717067	17.47187562	1.119886361	0.001948831	196.934985	0.00190075	0.001776441	0.064503242
SANTA CLARA	2023 MCY	Aggregated	40 GAS	15724.86	1.891579222	2.34355734	16.60846107	1.107325062	0.00187556	189.5307198	0.001683713	0.001573738	0.063758417
SANTA CLARA	2023 MCY	Aggregated	45 GAS	29971	1.765094611	2.186150543	16.27952934	1.104787719	0.001871244	189.0945482	0.001569134	0.001466754	0.06359511
SANTA CLARA	2023 MCY	Aggregated	50 GAS	10373.26	1.733511997	2.146427288	16.56902727	1.114637892	0.0019202	194.0417013	0.001538118	0.00143785	0.064148819
SANTA CLARA	2023 MCY	Aggregated	55 GAS	19984.51	1.787204816	2.212487148	17.53039301	1.133310854	0.002002861	202.3947902	0.001585491	0.001482207	0.065214488
SANTA CLARA	2023 MCY	Aggregated	60 GAS	47329.01	1.948186445	2.411155371	19.65149104	1.172583401	0.002109434	213.1643649	0.001718342	0.001606459	0.067469105
SANTA CLARA	2023 MCY	Aggregated	65 GAS	19821.86	2.21716493	2.743902005	22.93284345	1.212032541	0.002223562	224.6973195	0.001957837	0.001830399	0.069738996
SANTA CLARA	2023 MDV	Aggregated	5 GAS	6742.406	0.111635831	0.162757447	1.748341457	0.158101159	0.009185847	928.2561343	0.010050499	0.009241453	0.012944893
SANTA CLARA	2023 MDV	Aggregated	5 DSL	195.8576	0.177597583	0.202183041	3.551415955	0.124233052	0.00796865	842.9225992	0.010741533	0.010276859	0.132495694
SANTA CLARA	2023 MDV	Aggregated	10 GAS	4669.879	0.070955225	0.103438022	1.550422432	0.137105407	0.007434942	751.3221688	0.006351787	0.005840505	0.011283458
SANTA CLARA	2023 MDV	Aggregated	10 DSL	135.6535	0.132676759	0.15104367	2.657435887	0.105375278	0.006767323	715.8464691	0.009192501	0.008794838	0.112521096
SANTA CLARA	2023 MDV	Aggregated	15 GAS	19874.38	0.047910096	0.069837876	1.397908894	0.11936171	0.006083546	614.7597103	0.00423417	0.003893361	0.00985857
SANTA CLARA	2023 MDV	Aggregated	15 DSL	577.3233	0.065649366	0.074737439	1.303015872	0.074131043	0.005739145	607.0858772	0.007646434	0.007315652	0.095425446
SANTA CLARA	2023 MDV	Aggregated	20 GAS	72740.57	0.034074159	0.049665692	1.2698902	0.106301501	0.00506039	511.3669013	0.002976691	0.002737108	0.008799
SANTA CLARA	2023 MDV	Aggregated	20 DSL	2113.013	0.026503971	0.030173009	0.512836735	0.052665007	0.004766337	504.1824172	0.006354196	0.006079316	0.079250455
SANTA CLARA	2023 MDV	Aggregated	25 GAS	175567.5	0.025488541	0.03714872	1.158600655	0.096609778	0.004326016	437.1563443	0.002206586	0.002028995	0.00800421
SANTA CLARA	2023 MDV	Aggregated	25 DSL	5099.993	0.016304461	0.018561544	0.310664258	0.040301466	0.004304028	426.3381133	0.005362033	0.005130074	0.067014414
SANTA CLARA	2023 MDV	Aggregated	30 GAS	14163.12	0.020073195	0.029253972	1.063224029	0.089366921	0.00383968	388.0106654	0.001724511	0.001585724	0.007403092
SANTA CLARA	2023 MDV	Aggregated	30 DSL	4114.9	0.012442582	0.014165052	0.23587527	0.038126188	0.003481035	368.2233599	0.004692541	0.004489544	0.057879584
SANTA CLARA	2023 MDV	Aggregated	35 GAS	308515.5	0.016599049	0.024189065	0.978571677	0.084534258	0.003556808	359.4256299	0.001420759	0.001306424	0.006994832
SANTA CLARA	2023 MDV	Aggregated	35 DSL	8961.951	0.009998031	0.011382094	0.188669732	0.035047217	0.003158558	334.1117793	0.004213804	0.004031517	0.052517719

SANTA CLARA	2023 MDV	Aggregated	40 GAS	317522.5	0.01444863	0.021053949	0.905985894	0.081216889	0.00344153	347.7764877	0.001233814	0.001134527	0.006707011
SANTA CLARA	2023 MDV	Aggregated	40 DSL	9223.591	0.008346117	0.0095015	0.156713897	0.032987284	0.002954396	312.5156121	0.003862889	0.003695782	0.049123102
SANTA CLARA	2023 MDV	Aggregated	45 GAS	605186	0.013246857	0.019301661	0.84510916	0.079329991	0.00345489	349.1265019	0.001129374	0.001038494	0.00653304
SANTA CLARA	2023 MDV	Aggregated	45 DSL	17579.82	0.007182703	0.008177703	0.134056155	0.031572944	0.00284318	300.751148	0.003604476	0.003448548	0.047273892
SANTA CLARA	2023 MDV	Aggregated	50 GAS	209460.8	0.012749574	0.018576011	0.790806889	0.079064551	0.0028554114	359.1534286	0.001089655	0.0014001975	0.006487556
SANTA CLARA	2023 MDV	Aggregated	50 DSL	6084.548	0.00634578	0.007224248	0.117546728	0.030591204	0.002857427	302.2582039	0.00341875	0.003270857	0.04751078
SANTA CLARA	2023 MDV	Aggregated	55 GAS	403534.9	0.012932044	0.018840999	0.746900068	0.080168065	0.003702117	374.1095196	0.001108222	0.00101905	0.006548764
SANTA CLARA	2023 MDV	Aggregated	55 DSL	11722.13	0.005745173	0.006540498	0.105440708	0.0029913363	0.003015584	318.9879956	0.00329598	0.003153398	0.050140471
SANTA CLARA	2023 MDV	Aggregated	60 GAS	955685.7	0.013736833	0.020012281	0.707050842	0.0837669	0.003846154	388.6648308	0.0011882	0.001092594	0.006804719
SANTA CLARA	2023 MDV	Aggregated	60 DSL	27761.35	0.005575879	0.006347767	0.101783241	0.029964779	0.00326527	345.3998104	0.003299456	0.003156723	0.054292204
SANTA CLARA	2023 MDV	Aggregated	65 GAS	400250.7	0.01542454	0.022470314	0.679325822	0.088244131	0.003965178	400.6925765	0.001343168	0.001235095	0.007120958
SANTA CLARA	2023 MDV	Aggregated	65 DSL	11626.73	0.005748031	0.006543752	0.104791722	0.030495999	0.003666441	387.8355748	0.00342265	0.003274587	0.060962351
SANTA CLARA	2023 MH	Aggregated	5 GAS	221.1708	0.270902283	0.395299975	3.160551314	0.570074944	0.038418794	3882.329174	0.009028558	0.008301426	0.038318366
SANTA CLARA	2023 MH	Aggregated	5 DSL	75.87561	0.921487551	1.049052312	2.208479824	13.01113173	0.018938242	2003.284383	0.0211003535	0.201875615	0.314888408
SANTA CLARA	2023 MH	Aggregated	10 GAS	1164.614	0.175414346	0.255964202	2.492662416	0.503718569	0.031184578	3151.290864	0.005721901	0.002561077	0.033623304
SANTA CLARA	2023 MH	Aggregated	10 DSL	391.7398	0.693901205	0.789960388	1.733489435	10.82864379	0.017196005	1818.99083	0.180421985	0.17261701	0.285920028
SANTA CLARA	2023 MH	Aggregated	15 GAS	1313.62	0.120632616	0.176026829	2.064067103	0.447892808	0.025501709	2577.020748	0.003825751	0.003517637	0.029680011
SANTA CLARA	2023 MH	Aggregated	15 DSL	477.1768	0.34802358	0.396201708	0.997210268	7.399563798	0.014119401	1493.54915	0.130007314	0.124383255	0.234765127
SANTA CLARA	2023 MH	Aggregated	20 GAS	1435.381	0.086826573	0.126697132	1.757817464	0.409429644	0.021197639	2142.082068	0.002698353	0.002481036	0.026924592
SANTA CLARA	2023 MH	Aggregated	20 DSL	529.8848	0.14787271	0.168343249	0.545866581	5.251018031	0.011586656	1225.634704	0.093923883	0.089860777	0.192652708
SANTA CLARA	2023 MH	Aggregated	25 GAS	1621.368	0.065893241	0.096151263	1.542560054	0.379893893	0.018118641	1830.940511	0.002007399	0.001845729	0.024791983
SANTA CLARA	2023 MH	Aggregated	25 DSL	541.6856	0.098891014	0.112580845	0.404333502	4.398224525	0.010392759	1099.344516	0.078255502	0.074870204	0.172801649
SANTA CLARA	2023 MH	Aggregated	30 GAS	1762.566	0.052597126	0.076749604	1.387096999	0.358811396	0.016077141	1624.641116	0.001574948	0.001448107	0.023242036
SANTA CLARA	2023 MH	Aggregated	30 DSL	657.0932	0.078538135	0.089410445	0.336116291	3.941797775	0.009755176	1031.901064	0.069734061	0.066717396	0.162200477
SANTA CLARA	2023 MH	Aggregated	35 GAS	2529.212	0.044087095	0.064331785	1.274352511	0.345312967	0.014902875	1505.978218	0.001303003	0.001198063	0.022210647
SANTA CLARA	2023 MH	Aggregated	35 DSL	859.2653	0.064060501	0.072928621	0.285507032	3.624700471	0.009226061	975.9313599	0.064606909	0.061812043	0.153402819
SANTA CLARA	2023 MH	Aggregated	40 GAS	3339.158	0.03896863	0.056862934	1.200722386	0.336369381	0.014425853	1457.773787	0.001136627	0.001045087	0.021499944
SANTA CLARA	2023 MH	Aggregated	40 DSL	1097.348	0.053821643	0.061272362	0.247885721	3.397157074	0.008805414	931.4354046	0.062745244	0.060030913	0.146408675
SANTA CLARA	2023 MH	Aggregated	45 GAS	2916.45	0.036381847	0.053088306	1.164122227	0.329811364	0.014476131	1462.854509	0.001045286	0.000961102	0.020970977
SANTA CLARA	2023 MH	Aggregated	45 DSL	856.3891	0.04702968	0.053540164	0.221016754	3.228567744	0.008493236	898.4131977	0.064076325	0.061304411	0.141218044
SANTA CLARA	2023 MH	Aggregated	50 GAS	2840.403	0.03544277	0.051718007	1.153301526	0.332208105	0.014900608	1505.749066	0.001013336	0.0010931725	0.021032243
SANTA CLARA	2023 MH	Aggregated	50 DSL	1010.691	0.043259133	0.049247647	0.203698941	3.121491754	0.008289525	876.8647394	0.068555648	0.065589961	0.137830926
SANTA CLARA	2023 MH	Aggregated	55 GAS	3196.598	0.036316926	0.052993573	1.182027608	0.339106975	0.015512644	1567.59706	0.001035463	0.00095207	0.021403866
SANTA CLARA	2023 MH	Aggregated	55 DSL	1406.009	0.042262832	0.048113425	0.195234481	3.059966545	0.008194283	866.7900295	0.076154304	0.072859902	0.136247322
SANTA CLARA	2023 MH	Aggregated	60 GAS	3376.33	0.039237555	0.057255348	1.265018719	0.348212436	0.016142606	1631.256523	0.001115186	0.001025372	0.021944301
SANTA CLARA	2023 MH	Aggregated	60 DSL	1757.324	0.044555665	0.050723663	0.197076982	3.061634797	0.008207509	868.1890682	0.087043956	0.083278473	0.136467231
SANTA CLARA	2023 MH	Aggregated	65 GAS	440.1549	0.045294588	0.066093757	1.443033525	0.353538629	0.016638292	1681.347089	0.001265815	0.00116387	0.022287591
SANTA CLARA	2023 MH	Aggregated	65 DSL	247.3365	0.049850045	0.056750962	0.208414543	3.110606988	0.0038329203	881.0618553	0.101173387	0.096796671	0.138490654
SANTA CLARA	2023 Motor Coach	Aggregated	5 DSL	105.362	0.11548957	0.131476084	1.971302619	11.77812993	0.034886613	3692.680373	0.009653754	0.009236137	0.580437931
SANTA CLARA	2023 Motor Coach	Aggregated	10 DSL	239.5703	0.072470764	0.082502448	1.211983243	8.958605576	0.028843811	3053.061463	0.008489548	0.008122294	0.479898746
SANTA CLARA	2023 Motor Coach	Aggregated	15 DSL	224.0384	0.040289724	0.045866784	0.656666212	6.349609644	0.022697664	2402.503785	0.006725779	0.006434825	0.377640138
SANTA CLARA	2023 Motor Coach	Aggregated	20 DSL	327.3223	0.027368488	0.03115694	0.438565906	5.067618584	0.019383449	2051.70047	0.005714866	0.005467643	0.322498742
SANTA CLARA	2023 Motor Coach	Aggregated	25 DSL	287.895	0.021492877	0.024468005	0.335196264	3.960524043	0.016915627	1790.486354	0.005456808	0.005220749	0.281439521
SANTA CLARA	2023 Motor Coach	Aggregated	30 DSL	159.1227	0.017383448	0.019789732	0.257146058	2.963705807	0.014861003	1573.008389	0.005951606	0.005694142	0.247255013
SANTA CLARA	2023 Motor Coach	Aggregated	35 DSL	212.7325	0.014316351	0.016298076	0.193830143	2.173274471	0.013282713	1405.94937	0.00719926	0.006887823	0.220995662
SANTA CLARA	2023 Motor Coach	Aggregated	40 DSL	196.9148	0.012291587	0.013993036	0.145248517	1.589474552	0.012180755	1289.309295	0.00919977	0.008801792	0.202661467
SANTA CLARA	2023 Motor Coach	Aggregated	45 DSL	262.3176	0.011309155	0.012874613	0.111401181	1.214039383	0.011555131	1223.088168	0.011953136	0.011436048	0.192252428
SANTA CLARA	2023 Motor Coach	Aggregated	50 DSL	386.1017	0.011369056	0.012942805	0.092288136	1.046483882	0.011405839	1207.285987	0.015459357	0.014790592	0.189768545
SANTA CLARA	2023 Motor Coach	Aggregated	55 DSL	926.918	0.01247129	0.014197614	0.08790938	1.085540496	0.011732881	1241.902753	0.019718434	0.018865423	0.195209818
SANTA CLARA	2023 Motor Coach	Aggregated	60 DSL	3382.365	0.014615856	0.016639039	0.098264914	1.330870639	0.012536257	1326.938465	0.024730367	0.023660542	0.208576248
SANTA CLARA	2023 Motor Coach	Aggregated	65 DSL	6196.965	0.017802754	0.020267081	0.123354738	1.78247355	0.013815965	1462.393124	0.030495156	0.029175949	0.229867834
SANTA CLARA	2023 Motor Coach	Aggregated	70 DSL	76.15759	0.02131425	0.024264651	0.156420366	1.778432988	0.013815965	1462.393124	0.030495156	0.029175949	0.229867834
SANTA CLARA	2023 Motor Coach	Aggregated	75 DSL	0.02413	0.025691186	0.029247459	0.201719751	1.778294135	0.013815965	1462.393124	0.030495156	0.029175949	0.229867834
SANTA CLARA	2023 Motor Coach	Aggregated	80 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023 Motor Coach	Aggregated	85 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023 Motor Coach	Aggregated	90 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023 OBUS	Aggregated	5 GAS	200.3765	0.301729941	0.440283622	2.189748255	0.691866789	0.038672687	3907.985729	0.00593128	0.005453593	0.036352346
SANTA CLARA	2023 OBUS	Aggregated	10 GAS	1055.118	0.190295934	0.27767938	1.960423229	0.603247662	0.031394263	3172.480133	0.003735307	0.003434477	0.031661303
SANTA CLARA	2023 OBUS	Aggregated	15 GAS	1190.115	0.127343181	0.185818871	1.779831555	0.528940815	0.025675323	2594.564855	0.002481668	0.002281802	0.027772829



SANTA CLARA	2023 T6 CAIRP heavy	Aggregated	5 DSL	61.30758	0.04805332	0.054705047	0.731172686	5.944004577	0.020690856	2190.087006	0.003921384	0.003751747	0.344251179
SANTA CLARA	2023 T6 CAIRP heavy	Aggregated	10 DSL	139.2232	0.030153899	0.034327918	0.449534757	4.494754616	0.017106938	1810.736258	0.003444848	0.003299301	0.284622524
SANTA CLARA	2023 T6 CAIRP heavy	Aggregated	15 DSL	135.8695	0.016763895	0.019084418	0.243563009	3.159264171	0.013461728	1424.897849	0.002732032	0.002613846	0.223974099
SANTA CLARA	2023 T6 CAIRP heavy	Aggregated	20 DSL	175.6831	0.01138758	0.012963893	0.162667775	2.507645318	0.011496104	1216.840367	0.002321396	0.002220973	0.19127036
SANTA CLARA	2023 T6 CAIRP heavy	Aggregated	25 DSL	151.03	0.008942834	0.010180736	0.124327107	1.955151967	0.010032467	1061.917226	0.002216572	0.0022120684	0.1669186
SANTA CLARA	2023 T6 CAIRP heavy	Aggregated	30 DSL	95.85158	0.007232968	0.008234184	0.095377631	1.457860658	0.00879328	930.7516832	0.002417561	0.002312978	0.146301203
SANTA CLARA	2023 T6 CAIRP heavy	Aggregated	35 DSL	137.8152	0.005956799	0.006781363	0.071893227	1.061449883	0.00784098	829.9524811	0.002924361	0.002797855	0.130456972
SANTA CLARA	2023 T6 CAIRP heavy	Aggregated	40 DSL	134.782	0.005114328	0.005822273	0.053873894	0.766364849	0.007173583	759.3098205	0.003736975	0.003575315	0.11935293
SANTA CLARA	2023 T6 CAIRP heavy	Aggregated	45 DSL	172.1847	0.004705554	0.005356916	0.041319633	0.572227117	0.006789108	718.6139042	0.0048554	0.004645358	0.112956098
SANTA CLARA	2023 T6 CAIRP heavy	Aggregated	50 DSL	230.2343	0.004730478	0.005385289	0.034230444	0.47925316	0.006685573	707.6549325	0.006279638	0.006007984	0.111233501
SANTA CLARA	2023 T6 CAIRP heavy	Aggregated	55 DSL	541.2952	0.0051891	0.005907395	0.032606327	0.487181348	0.00687727	727.9456716	0.008009688	0.007663193	0.114422922
SANTA CLARA	2023 T6 CAIRP heavy	Aggregated	60 DSL	1881.342	0.006081418	0.006923232	0.036447281	0.59539645	0.007348171	777.7896542	0.010045551	0.009610984	0.122257702
SANTA CLARA	2023 T6 CAIRP heavy	Aggregated	65 DSL	3628.963	0.007407435	0.008432801	0.045753308	0.804194357	0.008098277	857.1868791	0.012387225	0.011851359	0.13473784
SANTA CLARA	2023 T6 CAIRP heavy	Aggregated	70 DSL	43.46602	0.009036652	0.01028754	0.059429013	0.802226019	0.008098277	857.1868791	0.012387225	0.011851359	0.13473784
SANTA CLARA	2023 T6 CAIRP heavy	Aggregated	75 DSL	0.016269	0.011067404	0.012599398	0.078164511	0.801959845	0.008098277	857.1868791	0.012387225	0.011851359	0.13473784
SANTA CLARA	2023 T6 CAIRP heavy	Aggregated	80 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023 T6 CAIRP heavy	Aggregated	85 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023 T6 CAIRP heavy	Aggregated	90 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023 T6 CAIRP small	Aggregated	5 DSL	8.170295	0.048472952	0.055182767	0.737557756	6.030836705	0.021746456	2301.820213	0.004010102	0.003836627	0.361814083
SANTA CLARA	2023 T6 CAIRP small	Aggregated	10 DSL	18.5539	0.030417222	0.034627692	0.453460383	4.561716349	0.017979695	1903.115861	0.003526499	0.003373944	0.299143311
SANTA CLARA	2023 T6 CAIRP small	Aggregated	15 DSL	18.10696	0.016910288	0.019251075	0.245689958	3.207564346	0.014148515	1497.592864	0.002793842	0.002672981	0.235400743
SANTA CLARA	2023 T6 CAIRP small	Aggregated	20 DSL	23.41281	0.011487024	0.013077102	0.164088295	2.54667049	0.012082609	1278.920766	0.002373915	0.002271221	0.201028534
SANTA CLARA	2023 T6 CAIRP small	Aggregated	25 DSL	20.12736	0.009020929	0.010269641	0.125412812	1.985798208	0.010544301	1116.093803	0.002266672	0.002168663	0.175434403
SANTA CLARA	2023 T6 CAIRP small	Aggregated	30 DSL	12.77388	0.007296131	0.00830609	0.09621053	1.480937461	0.009263558	980.529626	0.002472256	0.002365307	0.154125603
SANTA CLARA	2023 T6 CAIRP small	Aggregated	35 DSL	18.36625	0.006008818	0.006840582	0.072521045	1.078604473	0.008279735	876.3939335	0.002990522	0.0028681154	0.137756922
SANTA CLARA	2023 T6 CAIRP small	Aggregated	40 DSL	17.96204	0.00515899	0.005873117	0.054344355	0.779251341	0.007592834	803.6867254	0.00382152	0.003656203	0.126328361
SANTA CLARA	2023 T6 CAIRP small	Aggregated	45 DSL	22.94659	0.004746646	0.005403696	0.041680463	0.582493473	0.007202853	762.4080028	0.004965249	0.004750455	0.119839921
SANTA CLARA	2023 T6 CAIRP small	Aggregated	50 DSL	30.6827	0.004771788	0.005432317	0.034529366	0.488552109	0.007109793	752.5577647	0.006421709	0.006143909	0.118291963
SANTA CLARA	2023 T6 CAIRP small	Aggregated	55 DSL	72.13695	0.005234414	0.005958982	0.032891066	0.497162547	0.007313653	774.1360121	0.0081909	0.007836565	0.121683401
SANTA CLARA	2023 T6 CAIRP small	Aggregated	60 DSL	250.7214	0.006134525	0.00698369	0.036765562	0.60769695	0.007814435	827.1427452	0.010272822	0.009828424	0.130015321
SANTA CLARA	2023 T6 CAIRP small	Aggregated	65 DSL	483.6221	0.007472121	0.008506441	0.046152855	0.820456808	0.008612137	911.5779627	0.012667475	0.0121119485	0.143287361
SANTA CLARA	2023 T6 CAIRP small	Aggregated	70 DSL	5.792599	0.00910669	0.010367273	0.059873478	0.818448666	0.008612137	911.5779627	0.012667475	0.012119485	0.143287361
SANTA CLARA	2023 T6 CAIRP small	Aggregated	75 DSL	0.002168	0.011144112	0.012686723	0.078670513	0.81817711	0.008612137	911.5779627	0.012667475	0.012119485	0.143287361
SANTA CLARA	2023 T6 CAIRP small	Aggregated	80 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023 T6 CAIRP small	Aggregated	85 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023 T6 CAIRP small	Aggregated	90 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023 T6 instate construction	Aggregated	5 DSL	2112.441	0.100581243	0.114504089	0.826990203	7.168888683	0.02254321	2386.155069	0.015125799	0.014471464	0.375070348
SANTA CLARA	2023 T6 instate construction	Aggregated	10 DSL	1560.755	0.070211029	0.079929912	0.522642618	5.524893989	0.018695864	1978.921	0.012894143	0.012336348	0.311058823
SANTA CLARA	2023 T6 instate construction	Aggregated	15 DSL	408.6902	0.038335512	0.043642062	0.292486967	3.928481577	0.014734831	1559.653248	0.009329535	0.008925944	0.245155771
SANTA CLARA	2023 T6 instate construction	Aggregated	20 DSL	355.3342	0.021888713	0.024918633	0.197828332	3.133248814	0.012566779	1330.169192	0.006950274	0.006649608	0.209084073
SANTA CLARA	2023 T6 instate construction	Aggregated	25 DSL	472.0886	0.016540828	0.018830473	0.152778785	2.51212404	0.010977674	1161.965517	0.006057063	0.005795037	0.182644798
SANTA CLARA	2023 T6 instate construction	Aggregated	30 DSL	543.3074	0.013490796	0.015358245	0.119152665	1.961668389	0.009667799	1023.317756	0.005849028	0.005596001	0.160851301
SANTA CLARA	2023 T6 instate construction	Aggregated	35 DSL	685.0852	0.011167479	0.012713325	0.091830067	1.528244257	0.008660197	916.6650765	0.006128815	0.005863686	0.144086985
SANTA CLARA	2023 T6 instate construction	Aggregated	40 DSL	817.1743	0.009564732	0.01088872	0.070961138	1.21126331	0.00795476	841.995881	0.006896353	0.00659802	0.132350027
SANTA CLARA	2023 T6 instate construction	Aggregated	45 DSL	983.6079	0.008677315	0.009878463	0.056041129	1.009948088	0.007551422	799.3033683	0.008151894	0.007799246	0.125639359
SANTA CLARA	2023 T6 instate construction	Aggregated	50 DSL	1101.711	0.008500467	0.009677135	0.047558759	0.924460354	0.007450145	788.58338	0.00989598	0.009467884	0.123954326
SANTA CLARA	2023 T6 instate construction	Aggregated	55 DSL	1341.017	0.0090296	0.010279512	0.045345764	0.955241893	0.007650904	809.8333944	0.012129422	0.011604708	0.127294532
SANTA CLARA	2023 T6 instate construction	Aggregated	60 DSL	4260.314	0.010088407	0.011484884	0.049315341	1.099101023	0.008153007	862.9800112	0.014670907	0.01403625	0.13564844
SANTA CLARA	2023 T6 instate construction	Aggregated	65 DSL	2500.724	0.011483883	0.013073526	0.059087746	1.350515214	0.008953601	947.721266	0.017426337	0.016672481	0.148968585
SANTA CLARA	2023 T6 instate construction	Aggregated	70 DSL	360.74	0.012897525	0.014682851	0.070953912	1.350264168	0.008953601	947.721266	0.017426337	0.016672481	0.148968585
SANTA CLARA	2023 T6 instate construction	Aggregated	75 DSL	218.5047	0.014659573	0.016688808	0.087210371	1.351970275	0.008953601	947.721266	0.017426337	0.016672481	0.148968585
SANTA CLARA	2023 T6 instate construction	Aggregated	80 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023 T6 instate construction	Aggregated	85 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023 T6 instate construction	Aggregated	90 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023 T6 instate construction	Aggregated	5 DSL	4818.91	0.053176511	0.06053741	0.785872779	6.578834084	0.022458743	2377.214426	0.004901551	0.004689512	0.373665003
SANTA CLARA	2023 T6 instate construction	Aggregated	10 DSL	3560.402	0.033599231	0.038250167	0.48368176	4.989338541	0.01857079	1965.682097	0.004301073	0.004115011	0.308977852
SANTA CLARA	2023 T6 instate construction	Aggregated	15 DSL	932.3061	0.018675845	0.021261028	0.262349855	3.526432158	0.014614718	1546.939548	0.003387882	0.003241324	0.243157354
SANTA CLARA	2023 T6 instate construction	Aggregated	20 DSL	810.5901	0.012583017	0.014324807	0.175250775	2.807999661	0.012480385	1321.024539	0.002856938	0.002733348	0.207646661
SANTA CLARA	2023 T6 instate construction	Aggregated	25 DSL	1076.931	0.00986125	0.011226283	0.133967597	2.195992657	0.010891926	1152.889264	0.00271445	0.002597024	0.181218137



SANTA CLARA	2023 T6 instate construction :Aggregated	30 DSL	1239.395	0.007970482	0.009073787	0.10282058	1.644415126	0.009569876	1012.952818	0.002942768	0.002815465	0.159222077	
SANTA CLARA	2023 T6 instate construction :Aggregated	35 DSL	1562.82	0.006558279	0.007466102	0.077558952	1.207689322	0.008554278	905.4537108	0.003537472	0.003384443	0.142324714	
SANTA CLARA	2023 T6 instate construction :Aggregated	40 DSL	1864.142	0.005622767	0.006401093	0.058178092	0.885280393	0.007845106	830.3892453	0.004498511	0.004303908	0.130525626	
SANTA CLARA	2023 T6 instate construction :Aggregated	45 DSL	2243.811	0.005162549	0.005877169	0.044674617	0.676602948	0.007442345	787.7578409	0.005825862	0.005073838	0.123824562	
SANTA CLARA	2023 T6 instate construction :Aggregated	50 DSL	2513.228	0.005176572	0.005893134	0.037046059	0.581807256	0.007345987	777.5585006	0.007519518	0.007194227	0.122221368	
SANTA CLARA	2023 T6 instate construction :Aggregated	55 DSL	3059.134	0.005664036	0.006448074	0.035290633	0.601149265	0.007556025	799.7905666	0.009579484	0.00916508	0.125715939	
SANTA CLARA	2023 T6 instate construction :Aggregated	60 DSL	9718.65	0.006621712	0.007538315	0.039404212	0.734916393	0.008072484	854.4567408	0.011999477	0.011480385	0.134308701	
SANTA CLARA	2023 T6 instate construction :Aggregated	65 DSL	5704.664	0.008043463	0.009156871	0.049374632	0.981148224	0.008895266	941.5466525	0.014776881	0.01413764	0.147998022	
SANTA CLARA	2023 T6 instate construction :Aggregated	70 DSL	822.9218	0.009626011	0.010958481	0.062658591	0.980965839	0.008895266	941.5466525	0.014776881	0.01413764	0.147998022	
SANTA CLARA	2023 T6 instate construction :Aggregated	75 DSL	498.454	0.011598592	0.013204114	0.080857404	0.982205324	0.008895266	941.5466525	0.014776881	0.01413764	0.147998022	
SANTA CLARA	2023 T6 instate construction :Aggregated	80 DSL	0	0	0	0	0	0	0	0	0	0	
SANTA CLARA	2023 T6 instate construction :Aggregated	85 DSL	0	0	0	0	0	0	0	0	0	0	
SANTA CLARA	2023 T6 instate construction :Aggregated	90 DSL	0	0	0	0	0	0	0	0	0	0	
SANTA CLARA	2023 T6 instate heavy	Aggregated	5 DSL	2716.101	0.051222235	0.058312615	0.779390389	6.32784273	0.021621169	2288.558815	0.004584313	0.004385997	0.359729576
SANTA CLARA	2023 T6 instate heavy	Aggregated	10 DSL	6161.58	0.032142422	0.036591701	0.479179646	4.822211502	0.017876109	1892.151504	0.004031462	0.003857063	0.297419867
SANTA CLARA	2023 T6 instate heavy	Aggregated	15 DSL	7870.192	0.017869403	0.020342955	0.259624945	3.426256137	0.014067001	1488.964833	0.003193895	0.003055728	0.234044537
SANTA CLARA	2023 T6 instate heavy	Aggregated	20 DSL	10381.29	0.012138543	0.013818807	0.173395017	2.737619635	0.012012998	1271.552564	0.002713839	0.002596439	0.199870356
SANTA CLARA	2023 T6 instate heavy	Aggregated	25 DSL	14506.14	0.009532577	0.010852113	0.132525947	2.140087069	0.010483552	1109.66369	0.002591294	0.002479196	0.174423679
SANTA CLARA	2023 T6 instate heavy	Aggregated	30 DSL	18494.04	0.007709952	0.008777194	0.101667377	1.603007641	0.009174956	971.1513263	0.00282626	0.002703998	0.152651464
SANTA CLARA	2023 T6 instate heavy	Aggregated	35 DSL	15478.65	0.006349625	0.007228565	0.076634277	1.178668918	0.008169054	864.6784895	0.003418738	0.003270845	0.135915417
SANTA CLARA	2023 T6 instate heavy	Aggregated	40 DSL	9380.499	0.005451597	0.006206228	0.057426646	0.866959996	0.007462457	789.8865868	0.004368728	0.004179738	0.124159172
SANTA CLARA	2023 T6 instate heavy	Aggregated	45 DSL	6932.108	0.005015866	0.005710182	0.044044486	0.667578323	0.007051778	746.4170279	0.005676228	0.005430677	0.117326362
SANTA CLARA	2023 T6 instate heavy	Aggregated	50 DSL	14316.87	0.005042434	0.005740427	0.036487795	0.580487029	0.006933629	733.9112197	0.007341424	0.007023661	0.115360623
SANTA CLARA	2023 T6 instate heavy	Aggregated	55 DSL	35776.69	0.005531299	0.006296963	0.034756574	0.60554933	0.007132439	754.9548109	0.009363763	0.008958691	0.118668383
SANTA CLARA	2023 T6 instate heavy	Aggregated	60 DSL	24296.99	0.006482463	0.00737979	0.038850823	0.742222873	0.007620812	806.6481664	0.011743798	0.011235766	0.126793859
SANTA CLARA	2023 T6 instate heavy	Aggregated	65 DSL	9455.923	0.007895924	0.008988909	0.048770542	0.990561607	0.008398749	888.9912853	0.014481343	0.013854887	0.13973705
SANTA CLARA	2023 T6 instate heavy	Aggregated	70 DSL	806.8897	0.009394113	0.010694482	0.06134639	0.991357795	0.008398749	888.9912853	0.014481343	0.013854887	0.13973705
SANTA CLARA	2023 T6 instate heavy	Aggregated	75 DSL	24.05171	0.011261544	0.01282041	0.078575103	0.995487117	0.008398749	888.9912853	0.014481343	0.013854887	0.13973705
SANTA CLARA	2023 T6 instate heavy	Aggregated	80 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023 T6 instate heavy	Aggregated	85 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023 T6 instate heavy	Aggregated	90 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023 T6 instate small	Aggregated	5 DSL	4524.53	0.052070217	0.059277978	0.79229319	6.608262369	0.022581602	2390.218792	0.004766544	0.004560346	0.375709108
SANTA CLARA	2023 T6 instate small	Aggregated	10 DSL	10264.07	0.032674538	0.037197475	0.487112461	5.025532018	0.018670183	1976.202689	0.004191717	0.004010386	0.310631542
SANTA CLARA	2023 T6 instate small	Aggregated	15 DSL	13110.31	0.01816523	0.020679732	0.263923034	3.560948138	0.014691871	1555.106079	0.003320856	0.003177197	0.244441019
SANTA CLARA	2023 T6 instate small	Aggregated	20 DSL	17293.35	0.012339496	0.014047577	0.17626557	2.839861474	0.012546627	1328.036148	0.002821717	0.002699651	0.208748788
SANTA CLARA	2023 T6 instate small	Aggregated	25 DSL	24164.59	0.009690388	0.011031769	0.134719913	2.218310223	0.010949242	1158.956015	0.002694301	0.002577747	0.182171746
SANTA CLARA	2023 T6 instate small	Aggregated	30 DSL	30807.71	0.007837759	0.0089225	0.10335048	1.659853722	0.009619313	1018.185662	0.002938608	0.002811485	0.160044607
SANTA CLARA	2023 T6 instate small	Aggregated	35 DSL	25784.61	0.006454743	0.007348234	0.077902956	1.217743653	0.008597708	910.0507664	0.003554637	0.003400865	0.143047307
SANTA CLARA	2023 T6 instate small	Aggregated	40 DSL	15626.21	0.005541848	0.006308972	0.058377344	0.891861031	0.007884427	834.5513272	0.00454239	0.004345888	0.131179847
SANTA CLARA	2023 T6 instate small	Aggregated	45 DSL	11547.63	0.005098904	0.005804714	0.044773642	0.681887249	0.007479469	791.6873461	0.005901865	0.005646553	0.124442226
SANTA CLARA	2023 T6 instate small	Aggregated	50 DSL	23849.31	0.005125911	0.005835459	0.03709185	0.587781533	0.007382835	781.4588216	0.007633063	0.007302286	0.122834444
SANTA CLARA	2023 T6 instate small	Aggregated	55 DSL	59597.46	0.005622869	0.006401209	0.035331969	0.609414891	0.007594525	803.8657552	0.009735984	0.009314809	0.126356502
SANTA CLARA	2023 T6 instate small	Aggregated	60 DSL	40474.37	0.006589779	0.007501962	0.039493998	0.746255996	0.008114538	858.9081467	0.012210627	0.011682401	0.1350084
SANTA CLARA	2023 T6 instate small	Aggregated	65 DSL	15751.85	0.008026641	0.009137719	0.049577938	0.998355343	0.008942875	946.5859951	0.015056994	0.014405635	0.148790136
SANTA CLARA	2023 T6 instate small	Aggregated	70 DSL	1344.132	0.009604379	0.010933854	0.062821526	0.999157795	0.008942875	946.5859951	0.015056994	0.014405635	0.148790136
SANTA CLARA	2023 T6 instate small	Aggregated	75 DSL	40.06578	0.011570965	0.013172663	0.080965031	1.003319607	0.008942875	946.5859951	0.015056994	0.014405635	0.148790136
SANTA CLARA	2023 T6 instate small	Aggregated	80 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023 T6 instate small	Aggregated	85 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023 T6 instate small	Aggregated	90 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023 T6 OOS heavy	Aggregated	5 DSL	34.55086	0.048084445	0.05474048	0.731646285	5.951336036	0.020705303	2191.616214	0.00392799	0.003758067	0.344491549
SANTA CLARA	2023 T6 OOS heavy	Aggregated	10 DSL	78.46146	0.03017343	0.034350153	0.449825932	4.500300739	0.017118883	1812.000587	0.00345429	0.003304859	0.284821259
SANTA CLARA	2023 T6 OOS heavy	Aggregated	15 DSL	76.57141	0.016774753	0.019096779	0.243720771	3.163164505	0.013471128	1425.892771	0.002736634	0.002618249	0.224130487
SANTA CLARA	2023 T6 OOS heavy	Aggregated	20 DSL	99.009	0.011394956	0.01297229	0.162773139	2.510742343	0.011504131	1217.690014	0.002325307	0.002224715	0.191403913
SANTA CLARA	2023 T6 OOS heavy	Aggregated	25 DSL	85.11533	0.008948627	0.010187331	0.124407637	1.957567015	0.010039472	1062.6587	0.002220306	0.002124257	0.167035149
SANTA CLARA	2023 T6 OOS heavy	Aggregated	30 DSL	54.01868	0.007237653	0.008239517	0.09543941	1.459661821	0.008799128	931.370681	0.002421633	0.002316875	0.146398501
SANTA CLARA	2023 T6 OOS heavy	Aggregated	35 DSL	77.66791	0.005960658	0.006785755	0.071939794	1.062761884	0.007845933	830.4767672	0.002929288	0.002802568	0.130539383
SANTA CLARA	2023 T6 OOS heavy	Aggregated	40 DSL	75.95856	0.005117641	0.005826045	0.053908789	0.767312957	0.007177874	759.7640426	0.00374327	0.003581338	0.119424327
SANTA CLARA	2023 T6 OOS heavy	Aggregated	45 DSL	97.0374	0.004708602	0.005360385	0.041346397	0.572936137	0.006792941	719.019593	0.00486358	0.004653183	0.113019867
SANTA CLARA	2023 T6 OOS heavy	Aggregated	50 DSL	129.7522	0.004733542	0.005388778	0.034252616	0.479848165	0.006689121	708.0305017	0.006290217	0.006018105	0.111292535



SANTA CLARA	2023 T6 utility	Aggregated	80 DSL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023 T6 utility	Aggregated	85 DSL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023 T6 utility	Aggregated	90 DSL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023 T6TS	Aggregated	5 GAS	662.2107	0.31131252	0.454266498	2.410930634	0.663991485	0.037648449	3804.483546	0.007724365	0.007102268	0.034509346						
SANTA CLARA	2023 T6TS	Aggregated	10 GAS	3486.989	0.196692646	0.287013447	2.142601129	0.578828521	0.030562789	3088.457299	0.004865591	0.004473731	0.030062039						
SANTA CLARA	2023 T6TS	Aggregated	15 GAS	3933.13	0.131868116	0.192421645	1.935802839	0.507417375	0.024995435	2525.860269	0.003233323	0.002972921	0.026333201						
SANTA CLARA	2023 T6TS	Aggregated	20 GAS	4297.695	0.092731293	0.135313285	1.753880927	0.456914677	0.020777627	2099.704358	0.002266713	0.002084159	0.023693114						
SANTA CLARA	2023 T6TS	Aggregated	25 GAS	4854.563	0.068828299	0.100434092	1.600689269	0.417570858	0.017781072	1794.807158	0.001676365	0.001541356	0.021635001						
SANTA CLARA	2023 T6TS	Aggregated	30 GAS	5277.324	0.053827217	0.078544549	1.467946918	0.388561616	0.015760262	1592.619596	0.001307842	0.001202512	0.020115374						
SANTA CLARA	2023 T6TS	Aggregated	35 GAS	7572.753	0.044309676	0.064656575	1.350983673	0.368671666	0.014609121	1476.29349	0.001076341	0.000896566	0.019070571						
SANTA CLARA	2023 T6TS	Aggregated	40 GAS	9997.824	0.038525142	0.056215796	1.251879467	0.354577464	0.014141099	1428.998549	0.000934421	0.000859166	0.018328242						
SANTA CLARA	2023 T6TS	Aggregated	45 GAS	8732.187	0.035428154	0.05169668	1.170056606	0.343988111	0.014189636	1433.90331	0.000855707	0.000786791	0.01776985						
SANTA CLARA	2023 T6TS	Aggregated	50 GAS	8504.494	0.034141391	0.049819038	1.094354758	0.343417845	0.014604662	1475.842865	0.00082659	0.000760019	0.017731439						
SANTA CLARA	2023 T6TS	Aggregated	55 GAS	9570.981	0.034695343	0.050627363	1.031950449	0.348350332	0.015203133	1536.320078	0.00084223	0.000774399	0.017979728						
SANTA CLARA	2023 T6TS	Aggregated	60 GAS	10109.12	0.037253628	0.054360407	0.985393206	0.356547276	0.015818588	1598.513656	0.00095191	0.00083229	0.018399412						
SANTA CLARA	2023 T6TS	Aggregated	65 GAS	1317.874	0.042688063	0.062290321	0.965907481	0.362291064	0.016301386	1647.301718	0.001026163	0.000943519	0.018696059						
SANTA CLARA	2023 T7 CAIRP	Aggregated	5 DSL	1346.589	0.130850656	0.148963512	2.233501976	14.45112557	0.031484765	3332.601374	0.012450157	0.011911568	0.523838527						
SANTA CLARA	2023 T7 CAIRP	Aggregated	10 DSL	3061.85	0.082109987	0.09347597	1.373186919	10.94199715	0.026031206	2755.352697	0.010948716	0.010475079	0.433103073						
SANTA CLARA	2023 T7 CAIRP	Aggregated	15 DSL	2863.344	0.045648597	0.051967453	0.744008184	7.708465306	0.02048438	2168.231909	0.008674036	0.008298801	0.340815862						
SANTA CLARA	2023 T7 CAIRP	Aggregated	20 DSL	4183.373	0.031008727	0.035301076	0.496898755	6.12620843	0.017493339	1851.63597	0.007370291	0.007051455	0.291051389						
SANTA CLARA	2023 T7 CAIRP	Aggregated	25 DSL	3679.47	0.024351611	0.027722455	0.379780106	4.779628574	0.015266158	1615.893248	0.007037482	0.006733043	0.253995916						
SANTA CLARA	2023 T7 CAIRP	Aggregated	30 DSL	2033.683	0.019695593	0.022421933	0.291348585	3.568214122	0.013354318	1413.528702	0.007675608	0.007343565	0.222187027						
SANTA CLARA	2023 T7 CAIRP	Aggregated	35 DSL	2718.847	0.016220547	0.018465858	0.219611136	2.603393571	0.011884591	1257.96091	0.00928467	0.008883019	0.197733937						
SANTA CLARA	2023 T7 CAIRP	Aggregated	40 DSL	2516.688	0.013926472	0.015854228	0.164567757	1.885480643	0.010851441	1148.603962	0.011864667	0.011351407	0.180544548						
SANTA CLARA	2023 T7 CAIRP	Aggregated	45 DSL	3352.575	0.012813368	0.014587045	0.126218449	1.416535698	0.010249332	1084.871955	0.0154156	0.014748728	0.170526764						
SANTA CLARA	2023 T7 CAIRP	Aggregated	50 DSL	4934.61	0.012881237	0.014664307	0.104563212	1.195915485	0.01007273	1066.178978	0.019937469	0.019074983	0.167588488						
SANTA CLARA	2023 T7 CAIRP	Aggregated	55 DSL	11846.56	0.014130077	0.016086017	0.099602046	1.222127938	0.010361548	1096.749752	0.025430273	0.02433017	0.172393788						
SANTA CLARA	2023 T7 CAIRP	Aggregated	60 DSL	43228.64	0.016559888	0.018852172	0.11334951	1.494834183	0.011071025	1171.846532	0.031894012	0.030514291	0.184197956						
SANTA CLARA	2023 T7 CAIRP	Aggregated	65 DSL	79201.03	0.020170671	0.022962773	0.139761926	2.014046545	0.012201162	1291.469314	0.039328687	0.037627346	0.203000991						
SANTA CLARA	2023 T7 CAIRP	Aggregated	70 DSL	973.3392	0.024474308	0.027862137	0.180286664	2.009481047	0.012201162	1291.469314	0.039328687	0.037627346	0.203000991						
SANTA CLARA	2023 T7 CAIRP	Aggregated	75 DSL	0.308397	0.029838616	0.033968993	0.235804911	2.009324154	0.012201162	1291.469314	0.039328687	0.037627346	0.203000991						
SANTA CLARA	2023 T7 CAIRP	Aggregated	80 DSL	0	0	0	0	0	0	0	0	0	0						
SANTA CLARA	2023 T7 CAIRP	Aggregated	85 DSL	0	0	0	0	0	0	0	0	0	0						
SANTA CLARA	2023 T7 CAIRP	Aggregated	90 DSL	0	0	0	0	0	0	0	0	0	0						
SANTA CLARA	2023 T7 CAIRP construction	Aggregated	5 DSL	1545.349	0.129055122	0.146919432	2.202853848	14.22196102	0.032053759	3392.828221	0.012126056	0.011601489	0.533305348						
SANTA CLARA	2023 T7 CAIRP construction	Aggregated	10 DSL	1062.947	0.080983272	0.092193291	1.354344039	10.7341082	0.026501643	2805.147493	0.010663701	0.010202394	0.440930122						
SANTA CLARA	2023 T7 CAIRP construction	Aggregated	15 DSL	225.8028	0.045022206	0.051254354	0.733798899	7.558004346	0.020854574	2207.416245	0.008448235	0.008082768	0.346975094						
SANTA CLARA	2023 T7 CAIRP construction	Aggregated	20 DSL	224.9414	0.030583225	0.034816674	0.490080307	6.003570369	0.017809479	1885.098777	0.007178429	0.006867893	0.296311276						
SANTA CLARA	2023 T7 CAIRP construction	Aggregated	25 DSL	303.4006	0.024017458	0.027342048	0.374568761	4.684812092	0.015542049	1645.095708	0.006854283	0.00655777	0.258586136						
SANTA CLARA	2023 T7 CAIRP construction	Aggregated	30 DSL	364.2211	0.01942533	0.022114259	0.287350698	3.496901171	0.013654264	1445.277337	0.007475798	0.007152398	0.227177471						
SANTA CLARA	2023 T7 CAIRP construction	Aggregated	35 DSL	470.3546	0.015997968	0.018212469	0.21659763	2.552057219	0.012204133	1291.783804	0.009042973	0.008651778	0.203050425						
SANTA CLARA	2023 T7 CAIRP construction	Aggregated	40 DSL	603.0671	0.013735372	0.015636676	0.162309557	1.850138434	0.011191656	1184.615109	0.011555808	0.011055909	0.186204998						
SANTA CLARA	2023 T7 CAIRP construction	Aggregated	45 DSL	732.7724	0.012637543	0.014386881	0.124486478	1.388915091	0.010616834	1123.771254	0.015014304	0.014364792	0.176641192						
SANTA CLARA	2023 T7 CAIRP construction	Aggregated	50 DSL	736.3732	0.01270448	0.014463084	0.103128395	1.169106097	0.010479665	1109.252238	0.01941846	0.018578426	0.174359005						
SANTA CLARA	2023 T7 CAIRP construction	Aggregated	55 DSL	898.4397	0.013936183	0.015865284	0.098235306	1.192890337	0.010780151	1141.058061	0.024768276	0.023696812	0.179358437						
SANTA CLARA	2023 T7 CAIRP construction	Aggregated	60 DSL	3297.675	0.016332653	0.018593482	0.109807212	1.461244125	0.011518291	1219.188724	0.031063753	0.029719949	0.191639489						
SANTA CLARA	2023 T7 CAIRP construction	Aggregated	65 DSL	1616.775	0.019893889	0.022647678	0.137844112	1.966705633	0.012694084	1343.644226	0.03830489	0.036647837	0.211202161						
SANTA CLARA	2023 T7 CAIRP construction	Aggregated	70 DSL	360.9769	0.024156417	0.027500242	0.177981752	1.975857874	0.012694084	1343.644226	0.03830489	0.036647837	0.211202161						
SANTA CLARA	2023 T7 CAIRP construction	Aggregated	75 DSL	286.4069	0.029469484	0.033548764	0.23296968	1.979132536	0.012694084	1343.644226	0.03830489	0.036647837	0.211202161						
SANTA CLARA	2023 T7 CAIRP construction	Aggregated	80 DSL	0	0	0	0	0	0	0	0	0	0						
SANTA CLARA	2023 T7 CAIRP construction	Aggregated	85 DSL	0	0	0	0	0	0	0	0	0	0						
SANTA CLARA	2023 T7 CAIRP construction	Aggregated	90 DSL	0	0	0	0	0	0	0	0	0	0						
SANTA CLARA	2023 T7 NNOOS	Aggregated	5 DSL	1641.62	0.117108531	0.133319148	1.998936383	12.42916699	0.029281929	3099.435453	0.009971422	0.009540063	0.487188091						
SANTA CLARA	2023 T7 NNOOS	Aggregated	10 DSL	3732.686	0.073486677	0.083658988	1.228972852	9.391678721	0.024209929	2562.574061	0.008768907	0.008389568	0.402800956						
SANTA CLARA	2023 T7 NNOOS	Aggregated	15 DSL	3490.688	0.040854515	0.046509756	0.665871373	6.597953279	0.019051187	2016.53126	0.006947099	0.00664657	0.316970632						
SANTA CLARA	2023 T7 NNOOS	Aggregated	20 DSL	5099.929	0.027752146	0.031593706	0.444713732	5.233453578	0.016269415	1722.086001	0.00590292	0.005647562	0.270687938						
SANTA CLARA	2023 T7 NNOOS	Aggregated	25 DSL	4485.623	0.02179417	0.024811003	0.339895053	4.079860609	0.014198059	1502.837051	0.005636371	0.005392544	0.236225056						
SANTA CLARA	2023 T7 NNOOS	Aggregated	30 DSL	2479.253	0.017627133	0.02006715	0.260750738	3.042467552	0.012444251	1317.199806	0.006147451	0.005881515	0.207045466						
SANTA CLARA	2023 T7 NNOOS	Aggregated	35 DSL	3314.533	0.014517041	0.016526547	0.196547258	2.214585537	0.011096467	1174.539534	0.00743616	0.007114475	0.184621258						

SANTA CLARA	2023 T7 NNOOS	Aggregated	40 DSL	3068.082	0.012463894	0.014189194	0.147284614	1.596489724	0.010151894	1074.558333	0.009502499	0.009091425	0.168905606
SANTA CLARA	2023 T7 NNOOS	Aggregated	45 DSL	4087.107	0.01146769	0.013055092	0.112962806	1.18992638	0.009607718	1016.958304	0.012346468	0.011812365	0.159851683
SANTA CLARA	2023 T7 NNOOS	Aggregated	50 DSL	6015.758	0.011528431	0.013124241	0.093581833	0.99432355	0.009461123	1001.441545	0.015968065	0.015277294	0.157412665
SANTA CLARA	2023 T7 NNOOS	Aggregated	55 DSL	14442.09	0.012646115	0.01439664	0.089141695	1.008422504	0.009732404	1030.15609	0.020367293	0.019486212	0.161926192
SANTA CLARA	2023 T7 NNOOS	Aggregated	60 DSL	52699.82	0.014820745	0.01687229	0.099642394	1.231961565	0.010398802	1100.69306	0.025544149	0.024439121	0.173013621
SANTA CLARA	2023 T7 NNOOS	Aggregated	65 DSL	96553.58	0.018052318	0.02055119	0.125083927	1.664956495	0.011460318	1213.052454	0.031498635	0.030136018	0.190674953
SANTA CLARA	2023 T7 NNOOS	Aggregated	70 DSL	1186.593	0.022062264	0.025116209	0.162843161	1.661182324	0.011460318	1213.052454	0.031498635	0.030136018	0.190674953
SANTA CLARA	2023 T7 NNOOS	Aggregated	75 DSL	0.3755965	0.027060499	0.030806318	0.21457271	1.661052625	0.011460318	1213.052454	0.031498635	0.030136018	0.190674953
SANTA CLARA	2023 T7 NNOOS	Aggregated	80 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023 T7 NNOOS	Aggregated	85 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023 T7 NNOOS	Aggregated	90 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023 T7 NOOS	Aggregated	5 DSL	529.0465	0.130949461	0.149075993	2.235188478	14.4598812	0.031503334	3334.566874	0.012467586	0.011928243	0.524147476
SANTA CLARA	2023 T7 NOOS	Aggregated	10 DSL	1202.936	0.082171987	0.093546553	1.374223802	10.94961168	0.026046559	2756.977748	0.010964043	0.010489743	0.433358509
SANTA CLARA	2023 T7 NOOS	Aggregated	15 DSL	1124.947	0.045683066	0.052006693	0.744569979	7.714763229	0.020496461	2169.510688	0.008686178	0.008310418	0.341016868
SANTA CLARA	2023 T7 NOOS	Aggregated	20 DSL	1643.559	0.031032142	0.035327731	0.49727396	6.131732386	0.017503656	1852.728027	0.007380608	0.007061327	0.291223045
SANTA CLARA	2023 T7 NOOS	Aggregated	25 DSL	1445.586	0.024369999	0.027743388	0.380066875	4.784103613	0.015275162	1616.846269	0.007047333	0.006742469	0.254145718
SANTA CLARA	2023 T7 NOOS	Aggregated	30 DSL	798.9911	0.019710465	0.022438864	0.291568581	3.571724863	0.013361855	1414.32648	0.007686353	0.007353845	0.222312427
SANTA CLARA	2023 T7 NOOS	Aggregated	35 DSL	1068.178	0.016232795	0.018479801	0.219776962	2.606220787	0.011890994	1258.638669	0.009297667	0.008895454	0.197840471
SANTA CLARA	2023 T7 NOOS	Aggregated	40 DSL	988.7536	0.013936988	0.015866199	0.16469202	1.887905024	0.010857007	1149.193129	0.011881276	0.011367298	0.180637156
SANTA CLARA	2023 T7 NOOS	Aggregated	45 DSL	1317.156	0.012823044	0.014598059	0.126313755	1.418840496	0.010254323	1085.400158	0.01543718	0.014769375	0.170609799
SANTA CLARA	2023 T7 NOOS	Aggregated	50 DSL	1938.704	0.012890963	0.01467538	0.104642167	1.198384517	0.010077327	1066.670052	0.019965379	0.019101685	0.167665678
SANTA CLARA	2023 T7 NOOS	Aggregated	55 DSL	4654.264	0.014140746	0.016098163	0.099677254	1.225042865	0.01036632	1097.254907	0.025465872	0.02436423	0.172473191
SANTA CLARA	2023 T7 NOOS	Aggregated	60 DSL	16983.62	0.016572392	0.018866407	0.111419019	1.498474943	0.011076124	1172.386275	0.03193866	0.030557008	0.184282796
SANTA CLARA	2023 T7 NOOS	Aggregated	65 DSL	31116.41	0.020185902	0.022980112	0.139867459	2.018692822	0.012206781	1292.064155	0.039383743	0.03768002	0.203094492
SANTA CLARA	2023 T7 NOOS	Aggregated	70 DSL	382.4044	0.02448563	0.027875026	0.180355388	2.014116792	0.012206781	1292.064155	0.039383743	0.03768002	0.203094492
SANTA CLARA	2023 T7 NOOS	Aggregated	75 DSL	0.121163	0.029845065	0.033976335	0.235823206	2.013959537	0.012206781	1292.064155	0.039383743	0.03768002	0.203094492
SANTA CLARA	2023 T7 NOOS	Aggregated	80 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023 T7 NOOS	Aggregated	85 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023 T7 NOOS	Aggregated	90 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023 T7 other port	Aggregated	5 DSL	775.7688	0.129988306	0.147981791	2.218783173	13.43997644	0.03304537	3497.788384	0.012229828	0.011700771	0.549803624
SANTA CLARA	2023 T7 other port	Aggregated	10 DSL	1411.069	0.081568854	0.092859931	1.364137601	10.28892757	0.027321495	2891.92723	0.010754957	0.010289703	0.454570688
SANTA CLARA	2023 T7 other port	Aggregated	15 DSL	1304.645	0.045347757	0.051624969	0.739105162	7.369260038	0.021499729	2275.704633	0.008520532	0.008151938	0.357709077
SANTA CLARA	2023 T7 other port	Aggregated	20 DSL	1008.834	0.030804369	0.035068429	0.493624186	5.917917915	0.018360431	1943.415987	0.00723986	0.006926666	0.305477929
SANTA CLARA	2023 T7 other port	Aggregated	25 DSL	1048.415	0.024191126	0.027539755	0.377277351	4.640028113	0.016022856	1695.988209	0.00691294	0.006613889	0.266585728
SANTA CLARA	2023 T7 other port	Aggregated	30 DSL	1299.177	0.019565792	0.022274165	0.289428595	3.488931197	0.014076667	1489.988278	0.007539774	0.007213606	0.234205408
SANTA CLARA	2023 T7 other port	Aggregated	35 DSL	1603.831	0.016113648	0.018344161	0.218163896	2.583334609	0.012581679	1331.746286	0.00912036	0.008725817	0.209331971
SANTA CLARA	2023 T7 other port	Aggregated	40 DSL	1990.14	0.013834692	0.015749743	0.163483253	1.925824131	0.01153788	1221.262233	0.0116547	0.011150522	0.191965416
SANTA CLARA	2023 T7 other port	Aggregated	45 DSL	2082.848	0.012728924	0.014490911	0.125386668	1.515209341	0.010945275	1158.536119	0.015142792	0.014487722	0.182105744
SANTA CLARA	2023 T7 other port	Aggregated	50 DSL	2116.903	0.012796345	0.014567665	0.103874139	1.349771113	0.010803863	1143.567944	0.019584637	0.018737415	0.179752956
SANTA CLARA	2023 T7 other port	Aggregated	55 DSL	1856.239	0.014036954	0.015980004	0.098945667	1.431104665	0.011113644	1176.357708	0.024980236	0.023899602	0.18490705
SANTA CLARA	2023 T7 other port	Aggregated	60 DSL	1225.173	0.016450753	0.01872793	0.110601252	1.759279293	0.011874619	1256.905413	0.031329587	0.029247283	0.197568028
SANTA CLARA	2023 T7 other port	Aggregated	65 DSL	481.9185	0.020037739	0.022811441	0.138840893	2.332867659	0.013086787	1385.211056	0.038632692	0.036961459	0.217735888
SANTA CLARA	2023 T7 other port	Aggregated	70 DSL	11.01585	0.023340166	0.026571002	0.169937844	2.327158124	0.013086787	1385.211056	0.038632692	0.036961459	0.217735888
SANTA CLARA	2023 T7 other port	Aggregated	75 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023 T7 other port	Aggregated	80 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023 T7 other port	Aggregated	85 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023 T7 other port	Aggregated	90 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023 T7 POAK	Aggregated	5 DSL	4418.575	0.134431454	0.153039977	2.294623849	13.81873581	0.033740398	3571.355746	0.013012346	0.012449437	0.561367389
SANTA CLARA	2023 T7 POAK	Aggregated	10 DSL	8037.08	0.08435697	0.096033989	1.410765464	10.62169244	0.027896135	2952.751795	0.011443107	0.010948083	0.464131463
SANTA CLARA	2023 T7 POAK	Aggregated	15 DSL	7430.913	0.046897795	0.05338957	0.764386865	7.64758098	0.021951923	2323.568474	0.009065713	0.008673534	0.365232606
SANTA CLARA	2023 T7 POAK	Aggregated	20 DSL	5746.056	0.031857298	0.036267108	0.510496855	6.163211451	0.018746597	1984.290955	0.007703098	0.007369865	0.311902905
SANTA CLARA	2023 T7 POAK	Aggregated	25 DSL	5971.497	0.025018006	0.028481095	0.390173144	4.839211128	0.016359857	1731.659143	0.00735526	0.007037075	0.272192702
SANTA CLARA	2023 T7 POAK	Aggregated	30 DSL	7399.773	0.020234573	0.023035522	0.299321612	3.645718267	0.014372739	1521.326511	0.008022201	0.007675164	0.239131342
SANTA CLARA	2023 T7 POAK	Aggregated	35 DSL	9134.999	0.01666443	0.018971186	0.225621	2.710330602	0.012846303	1359.756289	0.009703921	0.009284133	0.213734753
SANTA CLARA	2023 T7 POAK	Aggregated	40 DSL	11335.31	0.014307577	0.016288087	0.169071307	2.035758509	0.01780551	1246.948475	0.012400418	0.011863982	0.196002936
SANTA CLARA	2023 T7 POAK	Aggregated	45 DSL	11863.36	0.013164013	0.014986227	0.129672535	1.620765712	0.011175482	1182.903072	0.016111694	0.015414709	0.18593589
SANTA CLARA	2023 T7 POAK	Aggregated	50 DSL	12057.32	0.013233739	0.015065604	0.107424682	1.463486142	0.011031096	1167.620078	0.020837748	0.019936317	0.183533616
SANTA CLARA	2023 T7 POAK	Aggregated	55 DSL	10572.65	0.014516754	0.016526219	0.102327749	1.565592522	0.011347392	1201.099495	0.026578581	0.025428803	0.188796114
SANTA CLARA	2023 T7 POAK	Aggregated	60 DSL	6978.262	0.017013058	0.019368072	0.114381736	1.927182279	0.012124372	1283.341323	0.033334192	0.031892169	0.201723384



SANTA CLARA	2023 T7 single construction	Aggregated	90 DSL	0	0	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023 T7 SWCV	Aggregated	5 DSL	324.9511	0.147757919	0.168211144	0.430232152	24.82832903	0.076117048	8056.841964	0.021259722	0.020340036	1.266423359		
SANTA CLARA	2023 T7 SWCV	Aggregated	5 NG	399.3692	0.695597671	15.37189035	43.45897314	3.917669895	0	5472.170855	0.009636199	0.009219341	1.115537826		
SANTA CLARA	2023 T7 SWCV	Aggregated	10 DSL	849.5804	0.107811538	0.122735229	0.313002744	20.91202736	0.068085906	7206.76116	0.018698895	0.017889989	1.132802494		
SANTA CLARA	2023 T7 SWCV	Aggregated	10 NG	1044.146	0.542546398	12.30813976	35.19745733	3.260900162	0	4856.700733	0.008407032	0.008043348	0.990070216		
SANTA CLARA	2023 T7 SWCV	Aggregated	15 DSL	909.1351	0.06903852	0.0785951	0.201011342	15.33888235	0.056350469	5964.587853	0.014721046	0.01408422	0.937550149		
SANTA CLARA	2023 T7 SWCV	Aggregated	15 NG	1117.339	0.327803941	8.299280656	24.78348656	2.358968172	0	4073.902864	0.0065772	0.006292673	0.830491749		
SANTA CLARA	2023 T7 SWCV	Aggregated	20 DSL	763.9236	0.048305753	0.054992423	0.141194906	12.13195378	0.047663726	5045.113041	0.011923106	0.011407318	0.793021513		
SANTA CLARA	2023 T7 SWCV	Aggregated	20 NG	938.8722	0.200040977	5.75172166	17.92510394	1.81731388	0	3554.039445	0.005319836	0.005089703	0.724514191		
SANTA CLARA	2023 T7 SWCV	Aggregated	25 DSL	927.5454	0.0362413	0.041257961	0.105575702	11.01222796	0.04286917	4537.618579	0.010604181	0.010145449	0.713250451		
SANTA CLARA	2023 T7 SWCV	Aggregated	25 NG	1139.966	0.146794182	4.216443233	13.13952972	1.569014523	0	3275.389084	0.004676326	0.004474031	0.667709492		
SANTA CLARA	2023 T7 SWCV	Aggregated	30 DSL	964.9965	0.027679608	0.031511126	0.079864049	10.35394517	0.039857403	4218.828883	0.009948687	0.009518311	0.663141115		
SANTA CLARA	2023 T7 SWCV	Aggregated	30 NG	1185.994	0.112332497	3.135461018	9.687387864	1.424317889	0	3097.935101	0.004264492	0.004080012	0.631534336		
SANTA CLARA	2023 T7 SWCV	Aggregated	35 DSL	1050.949	0.021332453	0.024285374	0.060355678	9.832679504	0.037449245	3963.93002	0.009707043	0.00928712	0.623074598		
SANTA CLARA	2023 T7 SWCV	Aggregated	35 NG	1291.631	0.086469299	2.33567797	7.143281185	1.321040494	0	2957.3671	0.003975935	0.003803938	0.60287863		
SANTA CLARA	2023 T7 SWCV	Aggregated	40 DSL	1151.922	0.016771073	0.01909259	0.045816155	9.434474973	0.035554512	3763.376146	0.009865277	0.009438509	0.591550322		
SANTA CLARA	2023 T7 SWCV	Aggregated	40 NG	1415.728	0.067392983	1.746179861	5.268507363	1.245351423	0	2842.149652	0.003799291	0.003634936	0.579390799		
SANTA CLARA	2023 T7 SWCV	Aggregated	45 DSL	1274.629	0.013679486	0.015573054	0.035336098	9.156117449	0.034120332	3611.570955	0.010415191	0.009964635	0.56768866		
SANTA CLARA	2023 T7 SWCV	Aggregated	45 NG	1566.536	0.05376853	1.31470801	3.887159956	1.190852804	0	2745.41732	0.003727487	0.003566237	0.559671281		
SANTA CLARA	2023 T7 SWCV	Aggregated	50 DSL	1179.531	0.01182482	0.013461657	0.028245737	8.990525659	0.033113397	3504.988827	0.011351957	0.010860877	0.550935434		
SANTA CLARA	2023 T7 SWCV	Aggregated	50 NG	1449.659	0.044612122	1.002751526	2.869608574	1.153309812	0	2662.776983	0.003755816	0.003593341	0.542824507		
SANTA CLARA	2023 T7 SWCV	Aggregated	55 DSL	939.5661	0.011035443	0.012563011	0.024051958	8.93289225	0.032511615	3441.291439	0.012672921	0.012124696	0.540923091		
SANTA CLARA	2023 T7 SWCV	Aggregated	55 NG	1154.739	0.039198761	0.781930653	2.120324942	1.130130177	0	2591.260326	0.003880993	0.003713103	0.528245369		
SANTA CLARA	2023 T7 SWCV	Aggregated	60 DSL	1358.767	0.011652577	0.013265572	0.023568336	8.954232436	0.032442695	3433.996402	0.013806735	0.013209461	0.539776413		
SANTA CLARA	2023 T7 SWCV	Aggregated	60 NG	1669.943	0.037722784	0.698926473	1.823496582	1.124235005	0	2558.994735	0.003979127	0.003806992	0.521667817		
SANTA CLARA	2023 T7 SWCV	Aggregated	65 DSL	259.8229	0.013383607	0.015236217	0.025882798	8.973656105	0.032694058	3460.602657	0.01454445	0.013915264	0.543958546		
SANTA CLARA	2023 T7 SWCV	Aggregated	65 NG	319.3258	0.037722784	0.698926473	1.823496582	1.124191508	0	2558.994735	0.003979127	0.003806992	0.521667817		
SANTA CLARA	2023 T7 SWCV	Aggregated	70 DSL	0	0	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023 T7 SWCV	Aggregated	70 NG	0	0	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023 T7 SWCV	Aggregated	75 DSL	0	0	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023 T7 SWCV	Aggregated	75 NG	0	0	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023 T7 SWCV	Aggregated	80 DSL	0	0	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023 T7 SWCV	Aggregated	80 NG	0	0	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023 T7 SWCV	Aggregated	85 DSL	0	0	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023 T7 SWCV	Aggregated	85 NG	0	0	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023 T7 SWCV	Aggregated	90 DSL	0	0	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023 T7 SWCV	Aggregated	90 NG	0	0	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023 T7 tractor	Aggregated	5 DSL	1207.254	0.126617519	0.144144407	2.161246461	13.34288551	0.031920748	3378.749268	0.011653622	0.011149491	0.531092333		
SANTA CLARA	2023 T7 tractor	Aggregated	10 DSL	2578.273	0.079453654	0.090451937	1.32876326	10.16496797	0.026391671	2793.507193	0.01024824	0.009804906	0.439100429		
SANTA CLARA	2023 T7 tractor	Aggregated	15 DSL	3287.387	0.044171823	0.050286259	0.719938944	7.223818851	0.020768036	2198.256303	0.008119089	0.007767861	0.345535278		
SANTA CLARA	2023 T7 tractor	Aggregated	20 DSL	3756.211	0.030005567	0.034159054	0.480823696	5.772898362	0.017735576	1877.27633	0.006898755	0.006600318	0.295081697		
SANTA CLARA	2023 T7 tractor	Aggregated	25 DSL	4569.045	0.023563814	0.026825609	0.367493926	4.513492074	0.015477555	1638.269183	0.006587238	0.006302277	0.257513101		
SANTA CLARA	2023 T7 tractor	Aggregated	30 DSL	5770.634	0.019058423	0.021696564	0.281923234	3.380898143	0.013535579	1432.714824	0.007184539	0.006873739	0.225202819		
SANTA CLARA	2023 T7 tractor	Aggregated	35 DSL	6730.73	0.015695797	0.01786847	0.212506546	2.485503274	0.012042616	1274.687559	0.008690656	0.008314702	0.200363133		
SANTA CLARA	2023 T7 tractor	Aggregated	40 DSL	8429.471	0.013475938	0.015341329	0.159243862	1.826234181	0.010992701	1163.556096	0.011105591	0.010625168	0.182894815		
SANTA CLARA	2023 T7 tractor	Aggregated	45 DSL	9935.002	0.012398844	0.014115141	0.122135184	1.404325705	0.01037987	1098.689147	0.014429343	0.013805136	0.172698634		
SANTA CLARA	2023 T7 tractor	Aggregated	50 DSL	15093.87	0.012464517	0.014189904	0.101180511	1.218422721	0.01019816	1079.455421	0.018661912	0.017854606	0.16967536		
SANTA CLARA	2023 T7 tractor	Aggregated	55 DSL	33886.36	0.013672956	0.015565619	0.096379842	1.269667046	0.010490574	1110.406874	0.023803298	0.022773577	0.174540497		
SANTA CLARA	2023 T7 tractor	Aggregated	60 DSL	106687.3	0.016024161	0.018242287	0.107733179	1.557439761	0.011208885	1186.438786	0.029853501	0.028562051	0.186491655		
SANTA CLARA	2023 T7 tractor	Aggregated	65 DSL	73757.44	0.019518131	0.022219907	0.13524052	2.088184221	0.012353095	1307.551154	0.036812521	0.035220028	0.205528833		
SANTA CLARA	2023 T7 tractor	Aggregated	70 DSL	22278.24	0.023226331	0.026441409	0.170158383	2.095703693	0.012353095	1307.551154	0.036812521	0.035220028	0.205528833		
SANTA CLARA	2023 T7 tractor	Aggregated	75 DSL	1135.238	0.027848449	0.03170334	0.2179953	2.095213142	0.012353095	1307.551154	0.036812521	0.035220028	0.205528833		
SANTA CLARA	2023 T7 tractor	Aggregated	80 DSL	0	0	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023 T7 tractor	Aggregated	85 DSL	0	0	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023 T7 tractor	Aggregated	90 DSL	0	0	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023 T7 tractor construction	Aggregated	5 DSL	3162.488	0.157225767	0.178989568	2.24589994	13.97209793	0.033292435	3523.939713	0.016200457	0.015499632	0.553914249		
SANTA CLARA	2023 T7 tractor construction	Aggregated	10 DSL	2175.272	0.102511497	0.116701536	1.390149119	10.69114232	0.027554922	2916.635061	0.014065343	0.013456883	0.458454415		
SANTA CLARA	2023 T7 tractor construction	Aggregated	15 DSL	462.0952	0.056679515	0.064525313	0.758964883	7.633911313	0.021695974	2296.476781	0.010776977	0.01031077	0.36097417		
SANTA CLARA	2023 T7 tractor construction	Aggregated	20 DSL	460.3323	0.036494306	0.04154599	0.508050358	6.118363294	0.018520862	1960.397327	0.008770131	0.008390739	0.30814716		

SANTA CLARA	2023 T7 tractor construction	Aggregated	25	DSL	620.8956	0.028283033	0.03219808	0.388902921	4.823383461	0.016168803	1711.436498	0.008150066	0.007797497	0.269013984
SANTA CLARA	2023 T7 tractor construction	Aggregated	30	DSL	745.362	0.022794642	0.025949965	0.299284407	3.660088955	0.014217117	1504.854246	0.008610471	0.008237986	0.236542131
SANTA CLARA	2023 T7 tractor construction	Aggregated	35	DSL	962.5595	0.018682608	0.021268727	0.226624468	2.745132317	0.012717296	1346.101173	0.010076398	0.009640497	0.211588359
SANTA CLARA	2023 T7 tractor construction	Aggregated	40	DSL	1234.149	0.015926825	0.018131477	0.1708688	2.078355597	0.011669136	1235.155463	0.012547763	0.012004953	0.194149238
SANTA CLARA	2023 T7 tractor construction	Aggregated	45	DSL	1499.586	0.014510399	0.016518985	0.131980233	1.657210878	0.011072516	1172.004321	0.016025201	0.015331958	0.184222758
SANTA CLARA	2023 T7 tractor construction	Aggregated	50	DSL	1506.955	0.01441827	0.016414103	0.109934931	1.482248943	0.010927361	1156.640011	0.020509984	0.019622732	0.181807703
SANTA CLARA	2023 T7 tractor construction	Aggregated	55	DSL	1838.616	0.015636195	0.017800617	0.104719588	1.556227887	0.01123363	1189.058007	0.026003994	0.024879073	0.18690336
SANTA CLARA	2023 T7 tractor construction	Aggregated	60	DSL	6748.543	0.018094144	0.020598806	0.116241979	1.878363517	0.011990932	1269.216883	0.032413416	0.031011226	0.199503219
SANTA CLARA	2023 T7 tractor construction	Aggregated	65	DSL	3308.658	0.021670261	0.024669942	0.144295385	2.43827229	0.013198146	1396.998156	0.039702173	0.037984675	0.219588656
SANTA CLARA	2023 T7 tractor construction	Aggregated	70	DSL	738.7229	0.025103884	0.028578861	0.176627741	2.449619009	0.013198146	1396.998156	0.039702173	0.037984675	0.219588656
SANTA CLARA	2023 T7 tractor construction	Aggregated	75	DSL	586.1188	0.029383756	0.03345117	0.220922554	2.453678853	0.013198146	1396.998156	0.039702173	0.037984675	0.219588656
SANTA CLARA	2023 T7 tractor construction	Aggregated	80	DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023 T7 tractor construction	Aggregated	85	DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023 T7 tractor construction	Aggregated	90	DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023 T7 utility	Aggregated	5	DSL	17.82292	0.088943128	0.101254981	1.518179102	6.979005671	0.036789362	3894.082604	0.004854194	0.004644203	0.612095557
SANTA CLARA	2023 T7 utility	Aggregated	10	DSL	70.06243	0.055812629	0.063538429	0.933396838	5.467131598	0.030416979	3219.578282	0.004268797	0.00408413	0.506072871
SANTA CLARA	2023 T7 utility	Aggregated	15	DSL	69.02338	0.031028725	0.035323841	0.505724951	4.014565333	0.023935616	2533.538582	0.003381921	0.003235621	0.398236983
SANTA CLARA	2023 T7 utility	Aggregated	20	DSL	54.03555	0.021077565	0.023995203	0.337757169	3.277852832	0.02044064	2163.602127	0.002873604	0.002749293	0.340088124
SANTA CLARA	2023 T7 utility	Aggregated	25	DSL	65.9565	0.016552523	0.018843787	0.258148068	2.587352128	0.017838221	1888.141149	0.002743845	0.002625147	0.296789495
SANTA CLARA	2023 T7 utility	Aggregated	30	DSL	86.96176	0.013387687	0.015240863	0.198038479	1.962616597	0.015671536	1658.801734	0.002992644	0.002863184	0.260740532
SANTA CLARA	2023 T7 utility	Aggregated	35	DSL	107.5477	0.011025594	0.012551799	0.149276356	1.480913557	0.014007164	1482.631159	0.003620001	0.003463402	0.233048971
SANTA CLARA	2023 T7 utility	Aggregated	40	DSL	147.9872	0.009466242	0.010776596	0.1118617	1.142216836	0.012845105	1359.629427	0.004625917	0.004425802	0.213714812
SANTA CLARA	2023 T7 utility	Aggregated	45	DSL	148.3811	0.008709632	0.009915253	0.085794512	0.945428416	0.012185358	1289.796538	0.006010391	0.005750384	0.202738054
SANTA CLARA	2023 T7 utility	Aggregated	50	DSL	142.1345	0.008755764	0.009967771	0.07107479	0.891725379	0.012027924	1273.13249	0.007773423	0.007437148	0.200118698
SANTA CLARA	2023 T7 utility	Aggregated	55	DSL	222.0034	0.009604638	0.010934149	0.067702534	0.981088395	0.012372804	1309.637287	0.009915013	0.009486094	0.205856744
SANTA CLARA	2023 T7 utility	Aggregated	60	DSL	166.9698	0.011256254	0.012814388	0.075677746	1.213933521	0.013219996	1399.310927	0.012435162	0.011897222	0.219952191
SANTA CLARA	2023 T7 utility	Aggregated	65	DSL	1.619971	0.013710612	0.015608488	0.095000424	1.592925706	0.014569501	1542.153408	0.015333868	0.014670532	0.24240504
SANTA CLARA	2023 T7 utility	Aggregated	70	DSL	0.002846	0.015023303	0.017102887	0.107361248	1.585313809	0.014569501	1542.153408	0.015333868	0.014670532	0.24240504
SANTA CLARA	2023 T7 utility	Aggregated	75	DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023 T7 utility	Aggregated	80	DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023 T7 utility	Aggregated	85	DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023 T7 utility	Aggregated	90	DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023 T7IS	Aggregated	5	GAS	2.476503	2.600828576	3.795122953	52.69671654	5.849747036	0.045194975	4567.081577	0.008128805	0.007474136	0.240904009
SANTA CLARA	2023 T7IS	Aggregated	10	GAS	9.667638	1.654491175	2.414229638	47.04969338	5.042749531	0.03673509	3712.267835	0.005137081	0.004723357	0.207670346
SANTA CLARA	2023 T7IS	Aggregated	15	GAS	10.70352	1.107063265	1.615424117	42.34829991	4.444319645	0.030092305	3040.913561	0.003424981	0.003149144	0.183025826
SANTA CLARA	2023 T7IS	Aggregated	20	GAS	19.79457	0.777735652	1.134870038	38.26761262	4.013792893	0.025055375	2531.917392	0.002408922	0.002214915	0.165295887
SANTA CLARA	2023 T7IS	Aggregated	25	GAS	26.51923	0.578922537	0.844762408	34.95901595	3.64921859	0.021447345	2167.315617	0.001787217	0.00164328	0.150282
SANTA CLARA	2023 T7IS	Aggregated	30	GAS	47.02429	0.454921215	0.66381997	32.15002205	3.368897964	0.01904596	1924.648822	0.001398578	0.001285941	0.138737845
SANTA CLARA	2023 T7IS	Aggregated	35	GAS	86.91127	0.376592114	0.549522329	29.69937224	3.165858971	0.017651759	1783.760808	0.001154303	0.001061339	0.1303763
SANTA CLARA	2023 T7IS	Aggregated	40	GAS	66.56405	0.328423764	0.479235186	27.56163411	3.02791284	0.017067364	1724.70604	0.001004715	0.000923798	0.124695407
SANTA CLARA	2023 T7IS	Aggregated	45	GAS	79.5696	0.300759391	0.438867397	25.63325303	2.964145733	0.017094737	1727.4721	0.000922198	0.000847927	0.122069352
SANTA CLARA	2023 T7IS	Aggregated	50	GAS	66.66558	0.291459093	0.425296425	24.07803976	2.927972816	0.017559952	1774.483443	0.000892558	0.000820674	0.12057968
SANTA CLARA	2023 T7IS	Aggregated	55	GAS	103.2547	0.298960171	0.43624198	22.88419913	2.916829047	0.018247156	1843.927338	0.000910867	0.000837508	0.120120758
SANTA CLARA	2023 T7IS	Aggregated	60	GAS	22.11856	0.319653118	0.46643708	21.76104411	3.011138823	0.018955631	1915.520825	0.000980073	0.000901141	0.12400462
SANTA CLARA	2023 T7IS	Aggregated	65	GAS	12.14296	0.362535461	0.529010893	21.11687694	3.123409122	0.019515765	1972.123926	0.001111818	0.001022275	0.128628132
SANTA CLARA	2023 UBUS	Aggregated	5	GAS	15.58634	0.073658009	0.107481594	0.34608366	0.219143202	0.034488904	3484.697255	0.007785007	0.007158027	0.02280865
SANTA CLARA	2023 UBUS	Aggregated	5	DSL	689.0302	0.002459962	0.175711547	0.380254905	2.368088657	0.024106124	2549.942158	0.006880862	0.006583199	0.400815397
SANTA CLARA	2023 UBUS	Aggregated	5	NG	175.8121	0.140256202	0.101830017	64.89613291	0.761517196	0	2833.806954	0.006434642	0.006156282	0.577690086
SANTA CLARA	2023 UBUS	Aggregated	10	GAS	51.82271	0.046349519	0.067633109	0.315206351	0.190379649	0.027993319	2828.805042	0.004898308	0.004503813	0.01981491
SANTA CLARA	2023 UBUS	Aggregated	10	DSL	2290.943	0.001885363	0.134668804	0.265501698	1.655917236	0.020141272	2130.540788	0.006290244	0.006018131	0.334891342
SANTA CLARA	2023 UBUS	Aggregated	10	NG	584.5542	0.116648653	8.332046623	57.64377519	0.628978522	0	2436.252589	0.005274058	0.005045905	0.496646028
SANTA CLARA	2023 UBUS	Aggregated	15	GAS	87.91929	0.030778826	0.04491239	0.287954682	0.167958509	0.022892687	2313.371596	0.00325138	0.002989524	0.017481295
SANTA CLARA	2023 UBUS	Aggregated	15	DSL	3886.676	0.001348467	0.096319066	0.168857777	1.055137402	0.016060813	1698.910421	0.005430947	0.005196006	0.267045059
SANTA CLARA	2023 UBUS	Aggregated	15	NG	991.7195	0.102839121	7.345651532	53.40141788	0.551448368	0	2203.698193	0.004254653	0.004070599	0.449238293
SANTA CLARA	2023 UBUS	Aggregated	20	GAS	769.3339	0.021538559	0.031429015	0.263491259	0.150896333	0.019029084	1922.943435	0.002276801	0.002093434	0.015705446
SANTA CLARA	2023 UBUS	Aggregated	20	DSL	34010.19	0.001081349	0.077239206	0.125331251	0.784124855	0.013835862	1463.555396	0.0050009	0.004784564	0.230050527
SANTA CLARA	2023 UBUS	Aggregated	20	NG	8677.998	0.093041103	6.645793078	50.39141747	0.496439848	0	2038.698223	0.003376428	0.003230365	0.415601969
SANTA CLARA	2023 UBUS	Aggregated	25	GAS	9.904225	0.016036361	0.023400221	0.243744817	0.135343768	0.016265016	1643.626486	0.001681965	0.001546505	0.014086719
SANTA CLARA	2023 UBUS	Aggregated	25	DSL	437.8392	0.000916972	0.065498028	0.100314372	0.597224328	0.012439371	1315.834778	0.005000105	0.004783803	0.206830903

SANTA CLARA	2023	UBUS	Aggregated	25	NG	111.7185	0.08544117	6.102940686	48.05667977	0.453771926	0	1910.714303	0.002639381	0.002525202	0.38951161
SANTA CLARA	2023	UBUS	Aggregated	30	GAS	9.827463	0.012489861	0.018225176	0.224254529	0.12555496	0.014432389	1458.434273	0.001310817	0.001205248	0.01306789
SANTA CLARA	2023	UBUS	Aggregated	30	DSL	434.4457	0.000803854	0.057418135	0.083975524	0.438382438	0.011342001	1199.755188	0.005428562	0.005193725	0.188584808
SANTA CLARA	2023	UBUS	Aggregated	30	NG	110.8527	0.079231572	5.659397987	46.14906017	0.418909694	0	1806.143827	0.002043512	0.001955111	0.368194234
SANTA CLARA	2023	UBUS	Aggregated	35	GAS	13.65896	0.01023733	0.014938289	0.20639376	0.118905076	0.013378515	1351.937284	0.001077712	0.000990916	0.012375763
SANTA CLARA	2023	UBUS	Aggregated	35	DSL	603.8258	0.000720405	0.051457498	0.072423027	0.312656258	0.010480668	1108.643521	0.00628627	0.006014328	0.174263323
SANTA CLARA	2023	UBUS	Aggregated	35	NG	154.0715	0.073981432	5.284387978	44.53619077	0.389434098	0	1717.730749	0.001588823	0.001520091	0.35017065
SANTA CLARA	2023	UBUS	Aggregated	40	GAS	18.98867	0.008869018	0.012941651	0.19081872	0.114047417	0.012950706	1308.705957	0.000934756	0.000859474	0.011870173
SANTA CLARA	2023	UBUS	Aggregated	40	DSL	839.4382	0.000655845	0.046846105	0.063799448	0.220045789	0.009855372	1042.499779	0.007573229	0.007245614	0.163866448
SANTA CLARA	2023	UBUS	Aggregated	40	NG	214.19	0.069433553	4.959539533	43.13905975	0.363901175	0	1641.143857	0.001275312	0.001220143	0.334557911
SANTA CLARA	2023	UBUS	Aggregated	45	GAS	15.96226	0.008125841	0.011857208	0.177315542	0.110478222	0.012996267	1313.309999	0.00085532	0.000786435	0.011498687
SANTA CLARA	2023	UBUS	Aggregated	45	DSL	705.6487	0.00060414	0.043152849	0.057102999	0.160551031	0.009466112	1001.32396	0.009289439	0.008887582	0.157394182
SANTA CLARA	2023	UBUS	Aggregated	45	NG	180.0525	0.065422041	4.673002897	41.90670286	0.34137954	0	1573.589431	0.001102981	0.001055266	0.320786499
SANTA CLARA	2023	UBUS	Aggregated	50	GAS	14.13203	0.007800882	0.011383029	0.164136447	0.110411717	0.013377749	1351.859796	0.000825646	0.000759151	0.011491765
SANTA CLARA	2023	UBUS	Aggregated	50	DSL	624.739	0.000561623	0.040115926	0.051744421	0.134171983	0.00931289	985.116065	0.011434901	0.010940232	0.154846527
SANTA CLARA	2023	UBUS	Aggregated	50	NG	159.4077	0.06183362	4.416687141	40.80432205	0.321233252	0	1513.159937	0.001071828	0.001025461	0.308467552
SANTA CLARA	2023	UBUS	Aggregated	55	GAS	20.76159	0.007895511	0.011521112	0.152254471	0.112262243	0.013927217	1407.385178	0.000840802	0.000773086	0.01168437
SANTA CLARA	2023	UBUS	Aggregated	55	DSL	917.814	0.000525929	0.037566352	0.047353843	0.140908646	0.009395703	993.8760937	0.014009614	0.013403565	0.156223481
SANTA CLARA	2023	UBUS	Aggregated	55	NG	234.1883	0.058587499	4.184821337	39.80709731	0.303008717	0	1458.494811	0.001181854	0.001130727	0.297323708
SANTA CLARA	2023	UBUS	Aggregated	60	GAS	28.33157	0.008450471	0.012330908	0.141938359	0.115236703	0.014491998	1464.457911	0.000903292	0.000830543	0.011993955
SANTA CLARA	2023	UBUS	Aggregated	60	DSL	1252.463	0.000495457	0.035389751	0.043687054	0.18076102	0.009714554	1027.604046	0.017013579	0.016277579	0.161525046
SANTA CLARA	2023	UBUS	Aggregated	60	NG	319.5769	0.055624022	3.973144442	38.89670245	0.28637102	0	1408.589461	0.001433059	0.001371065	0.287150176
SANTA CLARA	2023	UBUS	Aggregated	65	GAS	4.101931	0.009646975	0.014076843	0.134092486	0.117661404	0.014934701	1509.194257	0.001023758	0.000941308	0.01224632
SANTA CLARA	2023	UBUS	Aggregated	65	DSL	181.3354	0.00046908	0.033505703	0.040576136	0.253729105	0.010269441	1086.299922	0.020446795	0.019562275	0.17075122
SANTA CLARA	2023	UBUS	Aggregated	65	NG	46.26931	0.052897888	3.778420575	38.05922036	0.271065823	0	1362.680989	0.001825442	0.001746474	0.277791434
SANTA CLARA	2023	UBUS	Aggregated	70	GAS	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023	UBUS	Aggregated	70	DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023	UBUS	Aggregated	70	NG	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023	UBUS	Aggregated	75	GAS	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023	UBUS	Aggregated	75	DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023	UBUS	Aggregated	75	NG	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023	UBUS	Aggregated	80	GAS	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023	UBUS	Aggregated	80	DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023	UBUS	Aggregated	80	NG	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023	UBUS	Aggregated	85	GAS	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023	UBUS	Aggregated	85	DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023	UBUS	Aggregated	85	NG	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023	UBUS	Aggregated	90	GAS	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023	UBUS	Aggregated	90	DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2023	UBUS	Aggregated	90	NG	0	0	0	0	0	0	0	0	0	0

VMT Cross-Check

Web tool: 46274722 \*doesn't include PTO truck (deleted VMT from line 246). PTO isn't included in desktop EMFAC2017 model for unknown reason  
 Desktop Model: 46274722  
 Difference: 0



**VMT from EMFAC2017 Web Tool - 2043**

EMFAC2017 (v1.0.2) Emission Rates

Region Type: County

Region: SANTA CLARA

Calendar Year: 2043

Season: Annual

Vehicle Classification: EMFAC2011 Categories

Units: miles/day for VMT, g/mile for RUNEX, PMBW and PMTW

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	VMT	ROG_RUNEX	TOG_RUNEX	CO_RUNEX	NOx_RUNEX	SOx_RUNEX	CO2_RUNEX	PM10_RUNEX	PM2_5_RUNEX	N2O_RUNEX
SANTA CLARA	2043	All Other Buses	Aggregated	5	DSL	637.2104	0.058884078	0.06703504	0.895972015	8.345924846	0.019591452	2073.717186	0.006215466	0.005946588	0.325959463
SANTA CLARA	2043	All Other Buses	Aggregated	10	DSL	1926.359	0.036950299	0.042065103	0.550855591	6.322355836	0.016197965	1714.523161	0.005465905	0.005229452	0.269499165
SANTA CLARA	2043	All Other Buses	Aggregated	15	DSL	2191.124	0.020542316	0.023385863	0.298459782	4.457961923	0.012746442	1349.186196	0.004330321	0.004142993	0.212073282
SANTA CLARA	2043	All Other Buses	Aggregated	20	DSL	2544.798	0.013954231	0.01588583	0.199331536	3.542300213	0.010885261	1152.183805	0.003679455	0.003520284	0.181107249
SANTA CLARA	2043	All Other Buses	Aggregated	25	DSL	3095.269	0.010958464	0.012475377	0.152349248	2.764193808	0.009499394	1005.492474	0.003513308	0.003361323	0.158049415
SANTA CLARA	2043	All Other Buses	Aggregated	30	DSL	4220.69	0.00886321	0.01009009	0.116874837	2.064942772	0.008345569	883.3622735	0.003831878	0.003666113	0.138852248
SANTA CLARA	2043	All Other Buses	Aggregated	35	DSL	7763.501	0.007299405	0.008309817	0.088097272	1.506696618	0.00745924	789.5460953	0.004635167	0.004434652	0.124105651
SANTA CLARA	2043	All Other Buses	Aggregated	40	DSL	9229.879	0.006267049	0.007134558	0.066016554	1.092911503	0.006840408	724.0439392	0.005923174	0.005666694	0.113809624
SANTA CLARA	2043	All Other Buses	Aggregated	45	DSL	5850.106	0.005766141	0.006564313	0.050632683	0.822400371	0.006489073	686.8558061	0.007695899	0.007362977	0.107964168
SANTA CLARA	2043	All Other Buses	Aggregated	50	DSL	1727.101	0.005796683	0.006599082	0.041945659	0.695351152	0.006405235	677.9816951	0.009953342	0.009522765	0.106569281
SANTA CLARA	2043	All Other Buses	Aggregated	55	DSL	427.5867	0.006358673	0.007238865	0.039955481	0.71254454	0.006588894	697.4216072	0.012695503	0.012146301	0.109624964
SANTA CLARA	2043	All Other Buses	Aggregated	60	DSL	31.4118	0.007452112	0.008483662	0.04466215	0.871082829	0.007040049	745.1755424	0.015922383	0.015233587	0.117131218
SANTA CLARA	2043	All Other Buses	Aggregated	65	DSL	0.014957	0.009077	0.010333473	0.050605665	1.173476649	0.007758701	821.2434996	0.01963398	0.018784623	0.129088042
SANTA CLARA	2043	All Other Buses	Aggregated	70	DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043	All Other Buses	Aggregated	75	DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043	All Other Buses	Aggregated	80	DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043	All Other Buses	Aggregated	85	DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043	All Other Buses	Aggregated	90	DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043	LDA	Aggregated	5	GAS	43510.98	0.011670747	0.017029927	0.697398089	0.031193014	0.004550472	459.8382185	0.003641072	0.003347831	0.005222428
SANTA CLARA	2043	LDA	Aggregated	5	DSL	541.7197	0.081278584	0.092530265	2.681272276	0.043200619	0.003683653	389.656263	0.001703373	0.001629686	0.061248538
SANTA CLARA	2043	LDA	Aggregated	10	GAS	30136.28	0.007284221	0.010629118	0.629413362	0.027484448	0.003677756	371.647783	0.002290955	0.002106449	0.004601471
SANTA CLARA	2043	LDA	Aggregated	10	DSL	375.2022	0.060841454	0.06926395	2.007164345	0.035988446	0.003068831	324.6204472	0.00159193	0.001523064	0.051025814
SANTA CLARA	2043	LDA	Aggregated	15	GAS	128256	0.00483981	0.00706224	0.575183487	0.024205895	0.003009811	304.1500287	0.001520682	0.001398211	0.004052595
SANTA CLARA	2043	LDA	Aggregated	15	DSL	1596.81	0.029717773	0.033831708	0.980149932	0.024152898	0.002524104	266.9993941	0.001384655	0.001324755	0.041968587
SANTA CLARA	2043	LDA	Aggregated	20	GAS	469419	0.003391828	0.004949347	0.52740702	0.021720712	0.00250417	253.0535761	0.001064868	0.000979107	0.003636539
SANTA CLARA	2043	LDA	Aggregated	20	DSL	5844.352	0.011565037	0.013166026	0.381165199	0.015963674	0.002070585	219.0261969	0.001179932	0.001128889	0.034427868
SANTA CLARA	2043	LDA	Aggregated	25	GAS	1132995	0.002505056	0.003655372	0.484125997	0.019819961	0.002140709	216.3247771	0.000786662	0.000723306	0.003318315
SANTA CLARA	2043	LDA	Aggregated	25	DSL	14106	0.006946581	0.007908221	0.228844049	0.012177541	0.001735651	183.596882	0.001010688	0.000966966	0.028858873
SANTA CLARA	2043	LDA	Aggregated	30	GAS	9139929	0.001953078	0.002849927	0.44587988	0.018352057	0.001900234	192.0240612	0.000613074	0.000563699	0.00307256
SANTA CLARA	2043	LDA	Aggregated	30	DSL	113793.8	0.005248662	0.005975252	0.172880627	0.010176687	0.001503392	159.0285888	0.000894962	0.000856246	0.02499708
SANTA CLARA	2043	LDA	Aggregated	35	GAS	1990953	0.00160302	0.002339123	0.410819785	0.017326765	0.001759724	177.8251664	0.00050405	0.000463456	0.002909892
SANTA CLARA	2043	LDA	Aggregated	35	DSL	24787.73	0.004174601	0.004752506	0.137482032	0.008842668	0.001359036	143.7586409	0.000808945	0.000773951	0.022596856
SANTA CLARA	2043	LDA	Aggregated	40	GAS	2049078	0.001389716	0.002027871	0.379956967	0.016573021	0.001702547	172.0472494	0.000437189	0.00040198	0.002774694
SANTA CLARA	2043	LDA	Aggregated	40	DSL	25511.4	0.003442413	0.003918959	0.113349008	0.007888291	0.001271754	134.5259193	0.000742072	0.00070997	0.021145601
SANTA CLARA	2043	LDA	Aggregated	45	GAS	3905466	0.001273563	0.00185838	0.353298492	0.016076857	0.001709784	172.7785564	0.000400037	0.000367819	0.002691631
SANTA CLARA	2043	LDA	Aggregated	45	DSL	48623.77	0.002915624	0.003319245	0.095981973	0.007173491	0.001228416	129.9417036	0.000688375	0.000658597	0.020425026
SANTA CLARA	2043	LDA	Aggregated	50	GAS	1351702	0.001228827	0.001793101	0.328519609	0.01586944	0.001758725	177.7241574	0.000386158	0.000335058	0.002656895
SANTA CLARA	2043	LDA	Aggregated	50	DSL	16829.16	0.002520923	0.002869903	0.082964124	0.006618915	0.001231543	130.2724806	0.000644224	0.000616355	0.02047702
SANTA CLARA	2043	LDA	Aggregated	55	GAS	2604145	0.001253789	0.001829526	0.307305239	0.015892756	0.001832789	185.2085455	0.000393246	0.000361576	0.002660803
SANTA CLARA	2043	LDA	Aggregated	55	DSL	32422.08	0.002215768	0.002522505	0.072892957	0.006176711	0.001288713	136.3198928	0.000607291	0.000581019	0.021427589
SANTA CLARA	2043	LDA	Aggregated	60	GAS	6167356	0.001341787	0.001957933	0.286410632	0.016342231	0.001902875	192.2909649	0.000422473	0.000388448	0.002736023
SANTA CLARA	2043	LDA	Aggregated	60	DSL	76784.72	0.002088863	0.002378032	0.068697172	0.006000349	0.00139712	147.7871336	0.000591451	0.000565865	0.023230079
SANTA CLARA	2043	LDA	Aggregated	65	GAS	2582951	0.001523095	0.002222496	0.269149689	0.016879632	0.001962257	198.2916706	0.000478815	0.000440253	0.002825989
SANTA CLARA	2043	LDA	Aggregated	65	DSL	32158.21	0.002090887	0.002380336	0.068749211	0.006010377	0.001570646	166.1426483	0.00059269	0.000567051	0.026115311
SANTA CLARA	2043	LDT1	Aggregated	5	GAS	4153.004	0.012911504	0.018840437	0.71018404	0.033540992	0.005275454	533.0997328	0.003950128	0.003631997	0.005396625
SANTA CLARA	2043	LDT1	Aggregated	5	DSL	0.573631	0.267027474	0.303993026	2.796629108	0.155425728	0.006887365	728.5444801	0.009985614	0.009553641	0.114517047
SANTA CLARA	2043	LDT1	Aggregated	10	GAS	2876.425	0.008062116	0.011764221	0.641109018	0.029553171	0.004266665	431.1586949	0.002485433	0.002285264	0.004755239
SANTA CLARA	2043	LDT1	Aggregated	10	DSL	0.397304	0.199851739	0.227517918	2.093273341	0.129933949	0.005797554	613.2643562	0.009262145	0.008861469	0.096396617
SANTA CLARA	2043	LDT1	Aggregated	15	GAS	12241.68	0.005358102	0.007818529	0.585835908	0.026025255	0.003491396	352.815536	0.001649785	0.001516917	0.004187802

SANTA CLARA	2043 LDT1	Aggregated	15 DSL	1.690874	0.097721662	0.111249615	1.023380453	0.088028533	0.004807127	508.4972226	0.00802723	0.007679976	0.079928682
SANTA CLARA	2043 LDT1	Aggregated	20 GAS	44804.75	0.003755934	0.00548065	0.537139151	0.023351463	0.00290445	293.5029397	0.001155282	0.001062239	0.003757701
SANTA CLARA	2043 LDT1	Aggregated	20 DSL	6.188626	0.038148332	0.04342934	0.399334043	0.05907035	0.003949422	417.7692897	0.006826991	0.006531658	0.065667515
SANTA CLARA	2043 LDT1	Aggregated	25 GAS	108141.3	0.002774564	0.004048637	0.493052793	0.02130716	0.002482854	250.8994918	0.000853459	0.000784724	0.003428816
SANTA CLARA	2043 LDT1	Aggregated	25 DSL	14.93694	0.022961738	0.026140412	0.240366526	0.045745265	0.003311448	350.2844896	0.005841062	0.00558838	0.055059844
SANTA CLARA	2043 LDT1	Aggregated	30 GAS	872381.1	0.002163529	0.003157016	0.454088262	0.019728529	0.00220382	222.702297	0.000665135	0.000611567	0.003174824
SANTA CLARA	2043 LDT1	Aggregated	30 DSL	120.4971	0.017364635	0.019768483	0.181847996	0.038759465	0.002863465	302.8969533	0.005167642	0.000494402	0.047611183
SANTA CLARA	2043 LDT1	Aggregated	35 GAS	190031	0.001775974	0.002591497	0.418404935	0.018626669	0.002041179	206.2670299	0.000546855	0.000502813	0.002997506
SANTA CLARA	2043 LDT1	Aggregated	35 DSL	26.2479	0.013823849	0.015737533	0.144855594	0.034143398	0.002584388	273.3761416	0.004668673	0.004466708	0.042970922
SANTA CLARA	2043 LDT1	Aggregated	40 GAS	195578.9	0.001539719	0.002246755	0.38698068	0.017816735	0.001975014	199.5808463	0.000474316	0.000436116	0.002867144
SANTA CLARA	2043 LDT1	Aggregated	40 DSL	27.0142	0.011411899	0.012991688	0.119686287	0.030875583	0.002412062	255.1475648	0.004282512	0.004097252	0.040105644
SANTA CLARA	2043 LDT1	Aggregated	45 GAS	372766	0.001410931	0.002058827	0.359808891	0.017283457	0.00198317	200.405014	0.000434008	0.000399054	0.002781288
SANTA CLARA	2043 LDT1	Aggregated	45 DSL	51.48805	0.009679685	0.011019678	0.101648728	0.028459206	0.002325637	246.0055381	0.003974378	0.003802448	0.038668645
SANTA CLARA	2043 LDT1	Aggregated	50 GAS	129018	0.001361239	0.001986317	0.334585101	0.017061461	0.002040148	206.1627632	0.000418949	0.000385208	0.002745482
SANTA CLARA	2043 LDT1	Aggregated	50 DSL	17.82052	0.008386129	0.009547051	0.088233533	0.026612457	0.0023295	246.4142088	0.003723237	0.003562171	0.038732882
SANTA CLARA	2043 LDT1	Aggregated	55 GAS	248558.4	0.001388605	0.002026249	0.312958846	0.017087243	0.002125716	214.8096833	0.000426638	0.000392277	0.00274953
SANTA CLARA	2043 LDT1	Aggregated	55 DSL	34.33197	0.007391814	0.008415088	0.078002883	0.025165334	0.002435682	257.6461294	0.003515853	0.003363759	0.040498384
SANTA CLARA	2043 LDT1	Aggregated	60 GAS	588657.2	0.001485825	0.002168112	0.291721407	0.017573082	0.002207759	223.1003555	0.000458343	0.000421429	0.002827526
SANTA CLARA	2043 LDT1	Aggregated	60 DSL	81.30788	0.006988306	0.007955722	0.074048331	0.024666117	0.002638343	279.0835003	0.003431569	0.003283121	0.04386804
SANTA CLARA	2043 LDT1	Aggregated	65 GAS	246535.5	0.001686117	0.002460378	0.274133963	0.018152922	0.002276415	230.0382523	0.000519465	0.000477629	0.002920614
SANTA CLARA	2043 LDT1	Aggregated	65 DSL	34.05255	0.007015796	0.007987017	0.074755125	0.024823876	0.002963453	313.473577	0.003448398	0.003299222	0.049273681
SANTA CLARA	2043 LDT2	Aggregated	5 GAS	12754.09	0.017791502	0.025961318	0.819270882	0.033085371	0.005252385	530.7685431	0.003827121	0.003518896	0.005245916
SANTA CLARA	2043 LDT2	Aggregated	5 DSL	131.4949	0.266140787	0.302983592	2.770915391	0.152800557	0.004837365	511.6957309	0.009455624	0.009046578	0.080431443
SANTA CLARA	2043 LDT2	Aggregated	10 GAS	8833.65	0.011111505	0.016213882	0.739547493	0.029143624	0.002449617	429.4360116	0.002408055	0.002214118	0.004621973
SANTA CLARA	2043 LDT2	Aggregated	10 DSL	91.0751	0.199229555	0.226809603	2.074279172	0.127155333	0.004071932	430.7283378	0.008882318	0.004980703	0.067704496
SANTA CLARA	2043 LDT2	Aggregated	15 GAS	37594.83	0.0073862	0.010777926	0.675763288	0.025659386	0.003477464	351.4077237	0.001598434	0.001469701	0.004070151
SANTA CLARA	2043 LDT2	Aggregated	15 DSL	387.6034	0.097285302	0.110752848	1.012879582	0.085091667	0.003376303	357.1447799	0.007744508	0.007409484	0.056138186
SANTA CLARA	2043 LDT2	Aggregated	20 GAS	137597.7	0.005178523	0.007556488	0.61957461	0.023019816	0.002892832	292.3289667	0.00111933	0.001029183	0.036351948
SANTA CLARA	2043 LDT2	Aggregated	20 DSL	1418.635	0.037828514	0.043065248	0.393842423	0.055976086	0.00277389	293.4217029	0.006608137	0.006322272	0.046121806
SANTA CLARA	2043 LDT2	Aggregated	25 GAS	332107.5	0.003826022	0.005582923	0.568710501	0.021002482	0.002473017	249.9054237	0.000826904	0.000760308	0.003332204
SANTA CLARA	2043 LDT2	Aggregated	25 DSL	3424.034	0.022709249	0.02585297	0.236432197	0.04249623	0.002325807	246.0235206	0.005664618	0.005419569	0.038671471
SANTA CLARA	2043 LDT2	Aggregated	30 GAS	2679128	0.002983762	0.004353899	0.523759798	0.019445373	0.002195082	221.8192802	0.000644442	0.000592541	0.00308531
SANTA CLARA	2043 LDT2	Aggregated	30 DSL	27621.86	0.017154501	0.019529259	0.178603266	0.035355838	0.002011165	212.7407209	0.005018979	0.00480186	0.033439879
SANTA CLARA	2043 LDT2	Aggregated	35 GAS	583595.1	0.002449443	0.003574221	0.48259715	0.018359058	0.002033226	205.4633051	0.000529843	0.000487171	0.002912974
SANTA CLARA	2043 LDT2	Aggregated	35 DSL	6016.876	0.013640764	0.015529102	0.142023842	0.001815154	0.003582795	192.0066768	0.004538082	0.004341767	0.030180776
SANTA CLARA	2043 LDT2	Aggregated	40 GAS	600632.9	0.00212364	0.00309881	0.446350601	0.017561226	0.001967328	198.804079	0.000459561	0.00042255	0.002786313
SANTA CLARA	2043 LDT2	Aggregated	40 DSL	6192.536	0.01124497	0.012801651	0.117083902	0.027157787	0.00169412	179.203773	0.004163068	0.003982975	0.028168338
SANTA CLARA	2043 LDT2	Aggregated	45 GAS	1144784	0.001945956	0.002839535	0.415012132	0.017036786	0.001975234	199.603045	0.000420506	0.00038664	0.002702947
SANTA CLARA	2043 LDT2	Aggregated	45 DSL	11802.74	0.009520442	0.010838391	0.099133363	0.024583291	0.001633419	172.782839	0.003860696	0.003693684	0.027159056
SANTA CLARA	2043 LDT2	Aggregated	50 GAS	396220.9	0.001877279	0.002739321	0.385921866	0.016819865	0.002031958	205.3351475	0.000405915	0.000373224	0.002668254
SANTA CLARA	2043 LDT2	Aggregated	50 DSL	4085.045	0.008227187	0.009366106	0.085674194	0.022577537	0.001636133	173.0698703	0.003610643	0.003454448	0.027204173
SANTA CLARA	2043 LDT2	Aggregated	55 GAS	763335.9	0.001914795	0.002794064	0.360983589	0.016848089	0.002116891	213.9178887	0.000413363	0.000380072	0.002672347
SANTA CLARA	2043 LDT2	Aggregated	55 DSL	7870.008	0.007225815	0.00822611	0.075256061	0.020970631	0.00171071	180.9586485	0.003399721	0.003252651	0.02844418
SANTA CLARA	2043 LDT2	Aggregated	60 GAS	1807797	0.002048532	0.002989213	0.336493945	0.017330982	0.002198837	222.198784	0.000444079	0.000408314	0.002748362
SANTA CLARA	2043 LDT2	Aggregated	60 DSL	18638.42	0.006806741	0.007749022	0.070904201	0.020306552	0.001853049	196.01526	0.00330626	0.003163232	0.030810869
SANTA CLARA	2043 LDT2	Aggregated	65 GAS	757123.5	0.002324258	0.003391551	0.316217027	0.017908186	0.00226701	229.0878671	0.000503296	0.000462762	0.002839144
SANTA CLARA	2043 LDT2	Aggregated	65 DSL	7805.957	0.006807882	0.007750321	0.07093354	0.020305788	0.002081391	220.1692491	0.003306958	0.003163901	0.03460754
SANTA CLARA	2043 LHD1	Aggregated	5 GAS	19488.13	0.021858143	0.03189535	0.218808194	0.10780548	0.015177441	1533.723856	0.007735898	0.007112872	0.010145215
SANTA CLARA	2043 LHD1	Aggregated	5 DSL	12989.63	0.753870125	0.858231017	3.467693776	0.259058093	0.009065592	958.9569216	0.013235968	0.012663386	0.150734674
SANTA CLARA	2043 LHD1	Aggregated	10 GAS	42623.59	0.0137857	0.020116061	0.199725558	0.093329247	0.012320926	1245.064831	0.004867408	0.004475402	0.008783261
SANTA CLARA	2043 LHD1	Aggregated	10 DSL	33249.05	0.564068646	0.642154652	2.594983479	0.221703118	0.007621044	806.152918	0.012173802	0.012671618	0.126716012
SANTA CLARA	2043 LHD1	Aggregated	15 GAS	108560.3	0.009157742	0.013362955	0.18252126	0.082314502	0.01007608	1018.216698	0.003230869	0.002970665	0.007746594
SANTA CLARA	2043 LHD1	Aggregated	15 DSL	83714.3	0.276295853	0.31454446	1.271456219	0.160143609	0.00497718	526.4853156	0.010507772	0.01005321	0.08275616
SANTA CLARA	2043 LHD1	Aggregated	20 GAS	122717.6	0.006395931	0.009332927	0.166698331	0.07414536	0.00837563	846.3814169	0.002262438	0.002080228	0.006977615
SANTA CLARA	2043 LHD1	Aggregated	20 DSL	89426.26	0.108405798	0.123412794	0.499342939	0.117948522	0.004242294	448.7492287	0.008916697	0.008530965	0.07053713
SANTA CLARA	2043 LHD1	Aggregated	25 GAS	96619.26	0.004695511	0.006851679	0.152128945	0.068265487	0.007159064	723.443913	0.001671355	0.001536749	0.006423338
SANTA CLARA	2043 LHD1	Aggregated	25 DSL	94151.17	0.065469359	0.074532513	0.302010335	0.003762511	0.003762511	397.9978279	0.007619004	0.007289409	0.062559716
SANTA CLARA	2043 LHD1	Aggregated	30 GAS	81894.34	0.003659753	0.005340303	0.14006184	0.063221321	0.006352467	641.9349639	0.001302548	0.001197645	0.00594886
SANTA CLARA	2043 LHD1	Aggregated	30 DSL	75394.1	0.049580809	0.056444454	0.229101361	0.090323088	0.003416767	361.4250545	0.006733735	0.006442437	0.056810985

SANTA CLARA	2043 LHD1	Aggregated	35 GAS	31705.06	0.002982609	0.004352216	0.128198105	0.060330072	0.005888593	595.0591596	0.001070914	0.000984665	0.005675557
SANTA CLARA	2043 LHD1	Aggregated	35 DSL	41232.02	0.039528619	0.045000704	0.183064863	0.085002616	0.003416767	361.4250545	0.006080116	0.005817093	0.056810985
SANTA CLARA	2043 LHD1	Aggregated	40 GAS	8506.984	0.002554218	0.003727108	0.117211977	0.058861503	0.005700251	576.0266488	0.00092886	0.000854052	0.005534956
SANTA CLARA	2043 LHD1	Aggregated	40 DSL	21499.22	0.032689448	0.037214764	0.151860781	0.081737584	0.003323228	351.5305963	0.005576892	0.005335638	0.055255714
SANTA CLARA	2043 LHD1	Aggregated	45 GAS	9439.976	0.002344224	0.003420686	0.109098638	0.05693	0.005720274	578.0500169	0.000849924	0.000781474	0.005354046
SANTA CLARA	2043 LHD1	Aggregated	45 DSL	21369.34	0.027792007	0.031639353	0.129676367	0.079529489	0.003241548	342.8904363	0.00517824	0.004954232	0.053897602
SANTA CLARA	2043 LHD1	Aggregated	50 GAS	82886.57	0.002308658	0.003368788	0.103503145	0.054519372	0.005888177	595.0171099	0.000820437	0.000754362	0.005129824
SANTA CLARA	2043 LHD1	Aggregated	50 DSL	93441.22	0.024154644	0.027498457	0.113427054	0.078089337	0.003398333	359.4747906	0.004856656	0.000466559	0.056504431
SANTA CLARA	2043 LHD1	Aggregated	55 GAS	21334.45	0.002297294	0.003352207	0.094452314	0.056703585	0.006129943	619.4483212	0.000835498	0.00076821	0.00533202
SANTA CLARA	2043 LHD1	Aggregated	55 DSL	54074	0.021385347	0.024345796	0.101389212	0.077670208	0.003551134	375.6383993	0.0045952	0.004396413	0.059045125
SANTA CLARA	2043 LHD2	Aggregated	5 GAS	2930.809	0.021283609	0.031056993	0.215245657	0.123277641	0.017361717	1754.451233	0.007722397	0.007100459	0.011505142
SANTA CLARA	2043 LHD2	Aggregated	5 DSL	5109.428	0.757871915	0.862786789	3.509964903	0.305683682	0.009616709	1017.254031	0.030158728	0.028854074	0.159898168
SANTA CLARA	2043 LHD2	Aggregated	10 GAS	6410.138	0.013423348	0.019587318	0.196473716	0.106628056	0.014094077	1424.246853	0.004858914	0.004467592	0.009951285
SANTA CLARA	2043 LHD2	Aggregated	10 DSL	13078.41	0.566676633	0.645123672	2.625484782	0.269624013	0.00854677	904.0654396	0.027745039	0.026544801	0.142106497
SANTA CLARA	2043 LHD2	Aggregated	15 GAS	16326.32	0.008917034	0.013011715	0.17954953	0.09406091	0.011526134	1164.748822	0.003225231	0.002965481	0.00877843
SANTA CLARA	2043 LHD2	Aggregated	15 DSL	32928.75	0.278805282	0.317401277	1.291845531	0.208947502	0.005689261	601.8091776	0.023950754	0.022914655	0.094596022
SANTA CLARA	2043 LHD2	Aggregated	20 GAS	18455.42	0.006227816	0.009087615	0.163984223	0.084775354	0.009580943	968.1817197	0.00225849	0.002076598	0.007911836
SANTA CLARA	2043 LHD2	Aggregated	20 DSL	35175.53	0.110781617	0.126117506	0.513584859	0.168033083	0.004852521	513.2989551	0.020325432	0.019446163	0.080683448
SANTA CLARA	2043 LHD2	Aggregated	25 GAS	14530.52	0.004572092	0.006671585	0.14965205	0.078304562	0.008189286	827.5507519	0.001668438	0.001534067	0.007307936
SANTA CLARA	2043 LHD2	Aggregated	25 DSL	37034.06	0.067459718	0.076798404	0.313418141	0.151599284	0.004324356	457.4296811	0.017368003	0.016616671	0.071901576
SANTA CLARA	2043 LHD2	Aggregated	30 GAS	12316.04	0.003563558	0.005199935	0.137781416	0.072479637	0.007266606	734.3113812	0.001300275	0.001195555	0.006764313
SANTA CLARA	2043 LHD2	Aggregated	30 DSL	29656.03	0.051265258	0.058362088	0.23894133	0.144518622	0.003899879	412.5286081	0.015350418	0.014686365	0.064843752
SANTA CLARA	2043 LHD2	Aggregated	35 GAS	4768.105	0.002904212	0.00423782	0.126110841	0.069500324	0.006735986	680.6907209	0.001069045	0.000982947	0.006486262
SANTA CLARA	2043 LHD2	Aggregated	35 DSL	16218.48	0.041017177	0.04669533	0.192017216	0.141676183	0.003899879	412.5286081	0.013860628	0.013261024	0.064843752
SANTA CLARA	2043 LHD2	Aggregated	40 GAS	1279.361	0.002487081	0.003629143	0.115303584	0.068465305	0.006520561	658.9213437	0.000927239	0.000852562	0.006389667
SANTA CLARA	2043 LHD2	Aggregated	40 DSL	8456.65	0.034066754	0.038781596	0.160441954	0.140959279	0.003757437	397.4611028	0.012713466	0.012163487	0.06247535
SANTA CLARA	2043 LHD2	Aggregated	45 GAS	1419.673	0.002282607	0.003330775	0.107323242	0.066026237	0.006543488	661.2382162	0.000848441	0.00078011	0.006162036
SANTA CLARA	2043 LHD2	Aggregated	45 DSL	8405.56	0.029124288	0.033156065	0.138340332	0.141038521	0.0036112	382.057745	0.011804504	0.011293847	0.060054157
SANTA CLARA	2043 LHD2	Aggregated	50 GAS	12465.26	0.002247976	0.003280241	0.101817953	0.062562103	0.006735577	680.6493849	0.000819006	0.000753045	0.005838738
SANTA CLARA	2043 LHD2	Aggregated	50 DSL	36754.8	0.025504851	0.029035577	0.12264269	0.141788753	0.003744849	396.1295748	0.011071049	0.01059212	0.062266053
SANTA CLARA	2043 LHD2	Aggregated	55 GAS	3208.476	0.002236911	0.003264095	0.092914484	0.065960615	0.007012172	708.6000862	0.00083404	0.000766869	0.026656911
SANTA CLARA	2043 LHD2	Aggregated	55 DSL	21269.83	0.022817412	0.025976106	0.111719712	0.14413693	0.003876099	410.0131897	0.010474463	0.010021343	0.064448364
SANTA CLARA	2043 MCY	Aggregated	5 GAS	391.4042	12.50659763	15.70795699	41.83418004	1.650588589	0.005298359	535.4143533	0.013921587	0.012978194	0.095099568
SANTA CLARA	2043 MCY	Aggregated	10 GAS	271.0917	8.125304389	10.20452239	32.84019116	1.495935017	0.0042087	425.3011706	0.008951487	0.008344934	0.086182762
SANTA CLARA	2043 MCY	Aggregated	15 GAS	1153.73	5.538931602	6.955991834	26.52190752	1.362616775	0.003395751	343.1503498	0.006071006	0.005659662	0.078496342
SANTA CLARA	2043 MCY	Aggregated	20 GAS	4222.671	3.983344287	5.002201329	22.32229153	1.264558269	0.002804047	283.3570074	0.004341543	0.004047399	0.072842132
SANTA CLARA	2043 MCY	Aggregated	25 GAS	10191.89	3.019400669	3.791537063	19.43626556	1.193294027	0.002388089	241.3232667	0.003272685	0.00305097	0.068732241
SANTA CLARA	2043 MCY	Aggregated	30 GAS	82218.48	2.409469925	3.025515776	17.4125185	1.141656414	0.002111661	213.3894255	0.002599566	0.002423463	0.065753641
SANTA CLARA	2043 MCY	Aggregated	35 GAS	17909.67	2.027543314	2.545842872	16.0861767	1.110401313	0.001949011	196.9531669	0.002175221	0.002027872	0.063949668
SANTA CLARA	2043 MCY	Aggregated	40 GAS	18432.54	1.793867413	2.252362763	15.24138972	1.091326692	0.001875296	189.5039996	0.001916851	0.00178701	0.062847883
SANTA CLARA	2043 MCY	Aggregated	45 GAS	35131.73	1.66839227	2.094766661	14.84392417	1.083484456	0.001869985	188.9673222	0.00177846	0.001657998	0.062393623
SANTA CLARA	2043 MCY	Aggregated	50 GAS	12159.44	1.633752242	2.051229866	14.95882126	1.089015571	0.001916794	193.6975654	0.001736894	0.001619251	0.062710089
SANTA CLARA	2043 MCY	Aggregated	55 GAS	23425.66	1.68101823	2.110543072	15.62853538	1.10447261	0.001995695	201.6706853	0.00178523	0.001664316	0.063598782
SANTA CLARA	2043 MCY	Aggregated	60 GAS	55478.63	1.827554154	2.294475584	17.24327049	1.141105882	0.002094932	211.6988715	0.001930819	0.001800047	0.065707414
SANTA CLARA	2043 MCY	Aggregated	65 GAS	23235	2.078670048	2.609737912	19.80532841	1.179509174	0.002198076	222.1218323	0.002197201	0.002048389	0.067918768
SANTA CLARA	2043 MDV	Aggregated	5 GAS	7928.573	0.019892944	0.029027737	0.834732735	0.036920687	0.006366465	643.3495407	0.00392327	0.003607302	0.005510162
SANTA CLARA	2043 MDV	Aggregated	5 DSL	287.2095	0.092004162	0.104740621	2.983230416	0.048511189	0.005929008	627.1695332	0.002056063	0.001967119	0.098582317
SANTA CLARA	2043 MDV	Aggregated	10 GAS	5491.434	0.012432038	0.0181408	0.75342968	0.032477577	0.00515396	520.8223956	0.002468685	0.002269865	0.004852278
SANTA CLARA	2043 MDV	Aggregated	10 DSL	198.9251	0.068870556	0.078404549	2.233208353	0.040406817	0.005035171	532.6195979	0.001923428	0.001840222	0.083720384
SANTA CLARA	2043 MDV	Aggregated	15 GAS	23370.81	0.00826898	0.012066077	0.688384497	0.028565107	0.004217037	426.1436895	0.001638764	0.001506783	0.004271268
SANTA CLARA	2043 MDV	Aggregated	15 DSL	846.5984	0.033638211	0.038294867	1.090522408	0.027108014	0.004270163	451.6971862	0.001673767	0.001601361	0.017000507
SANTA CLARA	2043 MDV	Aggregated	20 GAS	85537.55	0.005800581	0.008464195	0.631100865	0.025607416	0.003507597	354.4526948	0.001147624	0.001055198	0.003831303
SANTA CLARA	2043 MDV	Aggregated	20 DSL	3098.564	0.013089201	0.014901185	0.424075149	0.017905884	0.003546353	375.1327246	0.001426659	0.001364943	0.05896564
SANTA CLARA	2043 MDV	Aggregated	25 GAS	20645.44	0.004287563	0.006256401	0.579260871	0.023351642	0.002998485	303.005503	0.000847839	0.000779557	0.003495191
SANTA CLARA	2043 MDV	Aggregated	25 DSL	7478.731	0.007861463	0.008949752	0.254600811	0.013650673	0.002998807	317.2133192	0.001222205	0.001169333	0.049861516
SANTA CLARA	2043 MDV	Aggregated	30 GAS	16654.78	0.003344835	0.004880775	0.533457132	0.021614364	0.002661347	268.9367204	0.000660777	0.00060756	0.003235879
SANTA CLARA	2043 MDV	Aggregated	30 DSL	60331.3	0.005939726	0.006761982	0.192336254	0.011401235	0.002590035	273.9735214	0.001082383	0.00103556	0.043064822
SANTA CLARA	2043 MDV	Aggregated	35 GAS	362791.6	0.002746435	0.004007592	0.491524294	0.002405538	0.002465439	249.1396523	0.000543282	0.000499528	0.030550508
SANTA CLARA	2043 MDV	Aggregated	35 DSL	13141.98	0.004724088	0.00537806	0.152951796	0.009900967	0.002350099	248.5930842	0.000978415	0.000936089	0.039075371

SANTA CLARA	2043 MDV	Aggregated	40 GAS	373383.1	0.00238128	0.003474758	0.454605446	0.019521472	0.002385716	241.0834443	0.000471221	0.00043327	0.002922374
SANTA CLARA	2043 MDV	Aggregated	40 DSL	13525.66	0.003895363	0.004434611	0.126100953	0.008827226	0.002198194	232.524636	0.000897538	0.000858711	0.036549635
SANTA CLARA	2043 MDV	Aggregated	45 GAS	711654.2	0.002181843	0.003183741	0.422689788	0.018945071	0.002395097	242.0314187	0.000431172	0.000396446	0.002835309
SANTA CLARA	2043 MDV	Aggregated	45 DSL	25779.4	0.003299078	0.003755781	0.106777397	0.008022643	0.002115444	223.7713846	0.000832545	0.000796529	0.035173745
SANTA CLARA	2043 MDV	Aggregated	50 GAS	246310.5	0.002104359	0.003070676	0.393071221	0.01871472	0.002464141	249.0084669	0.000416202	0.000382683	0.002799538
SANTA CLARA	2043 MDV	Aggregated	50 DSL	8922.502	0.002852251	0.003247098	0.092292048	0.007398063	0.002126045	224.892697	0.000779045	0.000745344	0.03535
SANTA CLARA	2043 MDV	Aggregated	55 GAS	474527.3	0.002145629	0.003130897	0.367683714	0.01876181	0.00256683	259.3854955	0.000423825	0.000389692	0.002804723
SANTA CLARA	2043 MDV	Aggregated	55 DSL	17189.57	0.002506722	0.002853736	0.081084229	0.006899727	0.00224372	237.340359	0.00073422	0.000702458	0.037306599
SANTA CLARA	2043 MDV	Aggregated	60 GAS	1123816	0.002294425	0.003348019	0.342761056	0.019321749	0.002667008	269.50881	0.000455301	0.000418632	0.002885774
SANTA CLARA	2043 MDV	Aggregated	60 DSL	40709.8	0.002362898	0.002690003	0.076412133	0.006700018	0.002429497	256.9918497	0.000714871	0.000683946	0.04039554
SANTA CLARA	2043 MDV	Aggregated	65 GAS	470665.4	0.002601795	0.003796533	0.32212974	0.019995406	0.002749485	277.8433415	0.00051599	0.000474434	0.002982811
SANTA CLARA	2043 MDV	Aggregated	65 DSL	17049.67	0.002364922	0.002692306	0.076464165	0.006709779	0.002727985	288.5658264	0.00071611	0.000685131	0.045358529
SANTA CLARA	2043 MH	Aggregated	5 GAS	248.9706	0.060163458	0.087790377	0.295178462	0.263486356	0.031147144	3147.508106	0.007740329	0.007116947	0.027119575
SANTA CLARA	2043 MH	Aggregated	5 DSL	98.51224	0.760159376	0.86539091	2.112706293	10.67983351	0.015691928	1659.889827	0.043920729	0.042020737	0.260911565
SANTA CLARA	2043 MH	Aggregated	10 GAS	1311	0.037831282	0.055203317	0.268659696	0.229194647	0.025284625	2555.083749	0.004870196	0.004477966	0.02359007
SANTA CLARA	2043 MH	Aggregated	10 DSL	508.611	0.569212452	0.648010533	1.586726512	8.881259523	0.014248338	1507.187097	0.040563702	0.038808934	0.236908823
SANTA CLARA	2043 MH	Aggregated	15 GAS	1478.735	0.025238382	0.036827788	0.246527715	0.200448038	0.020677566	2089.527233	0.00323272	0.002972367	0.020631298
SANTA CLARA	2043 MH	Aggregated	15 DSL	619.5371	0.278547566	0.317107885	0.784843669	5.954473133	0.011699121	1237.531257	0.034334491	0.032848916	0.19452268
SANTA CLARA	2043 MH	Aggregated	20 GAS	1615.8	0.017663159	0.02577404	0.225605329	0.180047371	0.017187806	1736.877019	0.002263734	0.00208142	0.018531541
SANTA CLARA	2043 MH	Aggregated	20 DSL	687.9699	0.109521296	0.124682714	0.316396453	3.948176474	0.00960052	1015.541575	0.028751738	0.027507951	0.159628993
SANTA CLARA	2043 MH	Aggregated	25 GAS	1825.165	0.013048915	0.019040947	0.207136081	0.16412219	0.014691159	1484.583682	0.001672312	0.001537629	0.016892427
SANTA CLARA	2043 MH	Aggregated	25 DSL	703.2913	0.066877222	0.07613527	0.19637072	3.024181959	0.008611276	910.8995179	0.024847685	0.023772785	0.143180719
SANTA CLARA	2043 MH	Aggregated	30 GAS	1984.11	0.010159469	0.014824673	0.190507203	0.152330205	0.013035862	1317.311164	0.001303294	0.001198331	0.015678726
SANTA CLARA	2043 MH	Aggregated	30 DSL	853.1296	0.051003803	0.058064439	0.151712142	2.533806979	0.008082985	855.0169375	0.02238993	0.021421352	0.134396756
SANTA CLARA	2043 MH	Aggregated	35 GAS	2847.12	0.00832869	0.012153205	0.175364054	0.144177453	0.012083971	1221.119889	0.001071527	0.00098523	0.014839597
SANTA CLARA	2043 MH	Aggregated	35 DSL	1115.617	0.040800304	0.046448433	0.123137489	2.204521239	0.007644569	808.6413242	0.020750623	0.01985296	0.127107155
SANTA CLARA	2043 MH	Aggregated	40 GAS	3758.871	0.007213971	0.010526609	0.162097986	0.138354009	0.011697569	1182.072858	0.000929392	0.000854541	0.014240213
SANTA CLARA	2043 MH	Aggregated	40 DSL	1424.729	0.033775362	0.038451004	0.103614607	1.968329154	0.007296027	771.7726777	0.018753413	0.018881668	0.121311917
SANTA CLARA	2043 MH	Aggregated	45 GAS	3283.031	0.006611315	0.009647216	0.150667626	0.133963162	0.011738737	1186.232983	0.000850411	0.000781922	0.013788281
SANTA CLARA	2043 MH	Aggregated	45 DSL	1111.883	0.028723419	0.032699702	0.089740669	1.787898943	0.007037361	744.4109982	0.019234546	0.018402468	0.117011042
SANTA CLARA	2043 MH	Aggregated	50 GAS	3197.425	0.006353725	0.00927134	0.139613012	0.133530879	0.012083326	1221.054704	0.000820907	0.000754794	0.013743788
SANTA CLARA	2043 MH	Aggregated	50 DSL	1312.22	0.024996725	0.02845711	0.079687329	1.653311687	0.00686857	726.5562857	0.019180872	0.018351116	0.11420453
SANTA CLARA	2043 MH	Aggregated	55 GAS	3598.391	0.006442833	0.009401367	0.12974018	0.135298834	0.012579649	1271.209549	0.000835977	0.00076865	0.013925757
SANTA CLARA	2043 MH	Aggregated	55 DSL	1825.477	0.022218989	0.025294842	0.07239246	1.548534046	0.006789654	718.2085401	0.019530767	0.018685875	0.112892381
SANTA CLARA	2043 MH	Aggregated	60 GAS	3800.715	0.006906823	0.010078419	0.121137761	0.13840285	0.013089799	1322.761639	0.000898108	0.000825777	0.014242524
SANTA CLARA	2043 MH	Aggregated	60 DSL	2281.602	0.021174077	0.024105279	0.070068613	1.504915385	0.006800612	719.3677614	0.020543253	0.019654561	0.113074594
SANTA CLARA	2043 MH	Aggregated	65 GAS	495.4798	0.007903887	0.011533333	0.114709591	0.140638014	0.013489678	1363.17056	0.001017883	0.000935906	0.014475297
SANTA CLARA	2043 MH	Aggregated	65 DSL	321.1265	0.021424166	0.024389988	0.071479983	1.505134906	0.006901446	730.0339497	0.022141048	0.021183236	0.114751171
SANTA CLARA	2043 Motor Coach	Aggregated	5 DSL	134.2342	0.111807972	0.127284865	1.908460501	11.83067449	0.027718043	2933.901074	0.009027886	0.008637343	0.461168392
SANTA CLARA	2043 Motor Coach	Aggregated	10 DSL	305.2193	0.070160528	0.07987242	1.173347068	8.904806664	0.022916927	2425.712328	0.007939157	0.007595713	0.381288198
SANTA CLARA	2043 Motor Coach	Aggregated	15 DSL	285.4313	0.039005361	0.044404634	0.635732695	6.223008903	0.018033703	1908.832534	0.006289736	0.006017645	0.300041892
SANTA CLARA	2043 Motor Coach	Aggregated	20 DSL	417.0179	0.026496603	0.030163713	0.424585094	4.917717659	0.015400499	1630.112981	0.005344362	0.005113167	0.25623106
SANTA CLARA	2043 Motor Coach	Aggregated	25 DSL	366.7865	0.020807723	0.023688009	0.324510719	3.827868989	0.013439771	1422.573661	0.005103034	0.004882279	0.223608769
SANTA CLARA	2043 Motor Coach	Aggregated	30 DSL	202.7269	0.016829295	0.019158871	0.248948635	2.84852906	0.011807335	1249.7835	0.005565754	0.005324982	0.196448562
SANTA CLARA	2043 Motor Coach	Aggregated	35 DSL	271.0272	0.013859972	0.015778523	0.187651134	2.063991774	0.010553354	1117.0521	0.006732521	0.006441275	0.175585034
SANTA CLARA	2043 Motor Coach	Aggregated	40 DSL	250.8751	0.011899754	0.013546964	0.140618216	1.474528592	0.009677829	1024.37946	0.008603334	0.008231158	0.161018186
SANTA CLARA	2043 Motor Coach	Aggregated	45 DSL	334.2001	0.01094864	0.012464193	0.107849882	1.081755476	0.009180759	971.7655816	0.011178195	0.010694631	0.152748017
SANTA CLARA	2043 Motor Coach	Aggregated	50 DSL	491.9047	0.011006632	0.012530212	0.089346131	0.885094515	0.009662145	959.2104636	0.014457102	0.013831694	0.150774527
SANTA CLARA	2043 Motor Coach	Aggregated	55 DSL	1180.92	0.012073728	0.01374502	0.085106963	0.883391588	0.009321986	986.7141075	0.018440056	0.017642348	0.155097717
SANTA CLARA	2043 Motor Coach	Aggregated	60 DSL	4309.23	0.014149929	0.016108617	0.095132379	1.076450944	0.009960282	1054.276513	0.023127058	0.022126591	0.165717586
SANTA CLARA	2043 Motor Coach	Aggregated	65 DSL	7895.124	0.017235235	0.019621003	0.119422377	1.464296827	0.010977033	1161.897679	0.028518106	0.027284425	0.182634135
SANTA CLARA	2043 Motor Coach	Aggregated	70 DSL	97.02694	0.021317855	0.024268755	0.157865933	1.460977518	0.010977033	1161.897679	0.028518106	0.027284425	0.182634135
SANTA CLARA	2043 Motor Coach	Aggregated	75 DSL	0.030742	0.026406674	0.030061989	0.210532993	1.46086345	0.010977033	1161.897679	0.028518106	0.027284425	0.182634135
SANTA CLARA	2043 Motor Coach	Aggregated	80 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 Motor Coach	Aggregated	85 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 Motor Coach	Aggregated	90 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 OBUS	Aggregated	5 GAS	204.0672	0.085376952	0.124581848	0.504230806	0.45099601	0.031158075	3148.612688	0.007688268	0.007069079	0.031537289
SANTA CLARA	2043 OBUS	Aggregated	10 GAS	1074.552	0.053685735	0.078338099	0.458930825	0.392300661	0.025293624	2555.993132	0.00483744	0.004447848	0.027432835
SANTA CLARA	2043 OBUS	Aggregated	15 GAS	1212.035	0.035815363	0.052261694	0.421124453	0.343096572	0.020685121	2090.290723	0.003210977	0.002952375	0.023992087



SANTA CLARA	2043 T6 CAIRP small	Aggregated	5 DSL	10.37651	0.049086342	0.055881064	0.746891052	6.392543903	0.017759037	1879.759659	0.0041463	0.003966933	0.295472041
SANTA CLARA	2043 T6 CAIRP small	Aggregated	10 DSL	23.56399	0.03080213	0.03506588	0.459198618	4.811515344	0.014682947	1554.161529	0.003646272	0.003488536	0.244292549
SANTA CLARA	2043 T6 CAIRP small	Aggregated	15 DSL	22.99636	0.017124275	0.019494684	0.248798999	3.360637628	0.011554251	1222.995017	0.002888731	0.002763766	0.192237785
SANTA CLARA	2043 T6 CAIRP small	Aggregated	20 DSL	29.73495	0.011632383	0.013242583	0.166164721	2.655640723	0.009867148	1044.418521	0.002454543	0.00234836	0.164168047
SANTA CLARA	2043 T6 CAIRP small	Aggregated	25 DSL	25.56232	0.009135082	0.010399596	0.126999826	2.066762273	0.008610903	911.447425	0.002343706	0.002242319	0.143266843
SANTA CLARA	2043 T6 CAIRP small	Aggregated	30 DSL	16.2232	0.007388458	0.008411197	0.097428009	1.537198331	0.007564997	800.7402249	0.002556223	0.002445642	0.125865212
SANTA CLARA	2043 T6 CAIRP small	Aggregated	35 DSL	23.32567	0.006084855	0.006927144	0.073438749	1.113136964	0.006761567	715.6987987	0.003092092	0.002958329	0.112497884
SANTA CLARA	2043 T6 CAIRP small	Aggregated	40 DSL	22.81231	0.005224273	0.005947437	0.055032047	0.050502052	0.006200616	656.3231463	0.005951314	0.003780382	0.103164859
SANTA CLARA	2043 T6 CAIRP small	Aggregated	45 DSL	29.14282	0.004806712	0.005472075	0.042207901	0.582542019	0.005882141	622.6132688	0.005133888	0.004911798	0.097866135
SANTA CLARA	2043 T6 CAIRP small	Aggregated	50 DSL	38.96791	0.004832171	0.005501059	0.034966312	0.475817411	0.005806145	614.5691652	0.006639815	0.006352579	0.096601714
SANTA CLARA	2043 T6 CAIRP small	Aggregated	55 DSL	91.616	0.005300652	0.006034389	0.03330728	0.474582103	0.005972626	632.1908365	0.008469094	0.008102725	0.099371596
SANTA CLARA	2043 T6 CAIRP small	Aggregated	60 DSL	318.4233	0.006212153	0.007072064	0.037230806	0.578236803	0.006381584	675.4782826	0.010621726	0.010162235	0.106175779
SANTA CLARA	2043 T6 CAIRP small	Aggregated	65 DSL	614.2139	0.007566676	0.008614084	0.046736888	0.787077767	0.00703302	744.4315026	0.01309771	0.012531109	0.117014265
SANTA CLARA	2043 T6 CAIRP small	Aggregated	70 DSL	7.356767	0.009363386	0.010659503	0.061818541	0.785151323	0.00703302	744.4315026	0.01309771	0.012531109	0.117014265
SANTA CLARA	2043 T6 CAIRP small	Aggregated	75 DSL	0.002754	0.011602913	0.013209033	0.082480166	0.784890815	0.00703302	744.4315026	0.01309771	0.012531109	0.117014265
SANTA CLARA	2043 T6 CAIRP small	Aggregated	80 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T6 CAIRP small	Aggregated	85 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T6 CAIRP small	Aggregated	90 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T6 instate construction	Aggregated	5 DSL	3340.916	0.059433445	0.067660452	0.8827055	8.321736124	0.019336796	2046.762418	0.006191817	0.005923962	0.321722549
SANTA CLARA	2043 T6 instate construction	Aggregated	10 DSL	2468.401	0.037499129	0.042689904	0.543146743	6.275955809	0.015989607	1692.468851	0.005443426	0.005207946	0.266032534
SANTA CLARA	2043 T6 instate construction	Aggregated	15 DSL	646.3612	0.020820157	0.023702164	0.294466352	4.403247651	0.012583447	1331.933491	0.004306909	0.004120594	0.209361397
SANTA CLARA	2043 T6 instate construction	Aggregated	20 DSL	561.9764	0.014036718	0.015979734	0.196648498	3.488101274	0.010745578	1137.398569	0.003649932	0.003492037	0.178783216
SANTA CLARA	2043 T6 instate construction	Aggregated	25 DSL	746.6285	0.011011934	0.012536249	0.150335348	2.721387917	0.009377948	992.6376252	0.003477326	0.003268898	0.156028811
SANTA CLARA	2043 T6 instate construction	Aggregated	30 DSL	859.2641	0.008909014	0.010142234	0.115398827	2.031055705	0.008239778	872.1645136	0.003779578	0.003616075	0.137092116
SANTA CLARA	2043 T6 instate construction	Aggregated	35 DSL	1083.492	0.007337524	0.008353212	0.087062942	1.481475034	0.007365425	779.6159283	0.004553909	0.004356909	0.122544767
SANTA CLARA	2043 T6 instate construction	Aggregated	40 DSL	1292.396	0.006296448	0.007168027	0.065325186	1.071982365	0.006754874	714.9903514	0.005800284	0.005549367	0.112386526
SANTA CLARA	2043 T6 instate construction	Aggregated	45 DSL	1555.618	0.005785038	0.006585825	0.050183711	0.801866385	0.006408118	678.286894	0.007518683	0.007193428	0.106617254
SANTA CLARA	2043 T6 instate construction	Aggregated	50 DSL	1742.403	0.005802742	0.00660598	0.041637153	0.671321084	0.006325151	669.5049929	0.009709091	0.009289808	0.105236861
SANTA CLARA	2043 T6 instate construction	Aggregated	55 DSL	2120.876	0.006349154	0.007228029	0.03968451	0.680638097	0.00650597	688.6442736	0.012371497	0.011836311	0.10824529
SANTA CLARA	2043 T6 instate construction	Aggregated	60 DSL	6737.871	0.007423265	0.008450822	0.044315454	0.83015452	0.006950578	735.7052041	0.015498227	0.014827781	0.115642613
SANTA CLARA	2043 T6 instate construction	Aggregated	65 DSL	3955.003	0.009020556	0.010269216	0.05552005	1.117635591	0.007658869	810.6764098	0.019086775	0.01826109	0.127427042
SANTA CLARA	2043 T6 instate construction	Aggregated	70 DSL	570.5259	0.010983144	0.012503473	0.071994083	1.117427835	0.007658869	810.6764098	0.019086775	0.01826109	0.127427042
SANTA CLARA	2043 T6 instate construction	Aggregated	75 DSL	345.5746	0.013429429	0.015288383	0.094563246	1.118839744	0.007658869	810.6764098	0.019086775	0.01826109	0.127427042
SANTA CLARA	2043 T6 instate construction	Aggregated	80 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T6 instate construction	Aggregated	85 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T6 instate construction	Aggregated	90 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T6 instate construction	Aggregated	5 DSL	7621.314	0.051698893	0.058855254	0.786295242	7.028661019	0.018016792	1907.042542	0.004697936	0.004494706	0.29976053
SANTA CLARA	2043 T6 instate construction	Aggregated	10 DSL	5630.929	0.032445136	0.036936318	0.483433388	5.278129411	0.014896089	1576.72216	0.004131368	0.003952647	0.247838766
SANTA CLARA	2043 T6 instate construction	Aggregated	15 DSL	1474.482	0.018038304	0.020535236	0.261934167	3.683221164	0.011721993	1240.750275	0.003273	0.003131412	0.195028665
SANTA CLARA	2043 T6 instate construction	Aggregated	20 DSL	1281.983	0.012252301	0.013948313	0.17493771	2.907100262	0.010010396	1059.581001	0.002780956	0.002660653	0.166551378
SANTA CLARA	2043 T6 instate construction	Aggregated	25 DSL	1703.213	0.009621623	0.010953485	0.133705181	2.263331171	0.008735922	924.680363	0.002655277	0.002540411	0.145346876
SANTA CLARA	2043 T6 instate construction	Aggregated	30 DSL	1960.157	0.007781833	0.008859025	0.102572599	1.683801418	0.007674844	812.367338	0.002895852	0.002770579	0.127692833
SANTA CLARA	2043 T6 instate construction	Aggregated	35 DSL	2471.667	0.00640868	0.007295795	0.077317382	1.220674428	0.00685976	726.0923097	0.003502646	0.003351123	0.1141316
SANTA CLARA	2043 T6 instate construction	Aggregated	40 DSL	2948.221	0.005502111	0.006263735	0.0579394	0.873398391	0.00629067	665.855212	0.004475659	0.004828044	0.104663167
SANTA CLARA	2043 T6 instate construction	Aggregated	45 DSL	3548.684	0.005062087	0.005762801	0.044438557	0.641392439	0.005675753	631.6560072	0.005814889	0.00556334	0.099287528
SANTA CLARA	2043 T6 instate construction	Aggregated	50 DSL	3974.779	0.00508858	0.005792961	0.036814783	0.524823067	0.005890468	623.4946698	0.007520336	0.00719501	0.098004679
SANTA CLARA	2043 T6 instate construction	Aggregated	55 DSL	4838.153	0.005581568	0.00635419	0.035068024	0.523915769	0.006059357	641.3711846	0.009591999	0.009177053	0.100814619
SANTA CLARA	2043 T6 instate construction	Aggregated	60 DSL	15370.46	0.00654107	0.00744651	0.03919825	0.638963199	0.006474239	685.2856582	0.012029802	0.011509398	0.107717362
SANTA CLARA	2043 T6 instate construction	Aggregated	65 DSL	9022.172	0.007967009	0.009069834	0.049205285	0.868328565	0.007135114	755.2379431	0.014833717	0.014192017	0.118712887
SANTA CLARA	2043 T6 instate construction	Aggregated	70 DSL	1301.486	0.009846552	0.01120955	0.06498223	0.868167152	0.007135114	755.2379431	0.014833717	0.014192017	0.118712887
SANTA CLARA	2043 T6 instate construction	Aggregated	75 DSL	788.3265	0.012189325	0.013876618	0.086596394	0.869264112	0.007135114	755.2379431	0.014833717	0.014192017	0.118712887
SANTA CLARA	2043 T6 instate construction	Aggregated	80 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T6 instate construction	Aggregated	85 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T6 instate construction	Aggregated	90 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T6 instate heavy	Aggregated	5 DSL	3629.746	0.054105365	0.06159484	0.823259807	7.447506368	0.017119237	1812.038074	0.005208233	0.004982927	0.284827151
SANTA CLARA	2043 T6 instate heavy	Aggregated	10 DSL	8234.221	0.033951613	0.038651327	0.506151151	5.619204828	0.014153969	1498.170179	0.00458014	0.004382005	0.235491489
SANTA CLARA	2043 T6 instate heavy	Aggregated	15 DSL	10517.58	0.018875213	0.021487993	0.274238411	3.939559626	0.011137989	1178.934512	0.003628581	0.00347161	0.185312088
SANTA CLARA	2043 T6 instate heavy	Aggregated	20 DSL	13873.36	0.012821781	0.014596622	0.183154874	3.118593366	0.009510005	1006.615622	0.00308319	0.002949812	0.158225958
SANTA CLARA	2043 T6 instate heavy	Aggregated	25 DSL	19385.73	0.010069134	0.011462943	0.139985413	2.428675401	0.008297858	878.3122125	0.002943967	0.002816612	0.138058449

SANTA CLARA	2043 T6 instate heavy	Aggregated	30 DSL	24715.09	0.00814392	0.009271233	0.107389912	1.809704624	0.00728815	771.4365171	0.003210912	0.003072009	0.121259078
SANTA CLARA	2043 T6 instate heavy	Aggregated	35 DSL	20685.37	0.006707025	0.007635437	0.080947777	1.315884757	0.006511876	689.2694036	0.003884025	0.003716004	0.108343552
SANTA CLARA	2043 T6 instate heavy	Aggregated	40 DSL	12535.92	0.005758449	0.006555556	0.06065901	0.947068096	0.00596605	631.4947893	0.004963307	0.004748597	0.099262187
SANTA CLARA	2043 T6 instate heavy	Aggregated	45 DSL	9263.94	0.005298193	0.006031589	0.04652361	0.7028842	0.005658927	598.9864448	0.006448757	0.006169787	0.094152328
SANTA CLARA	2043 T6 instate heavy	Aggregated	50 DSL	19132.8	0.005326255	0.006063536	0.038541577	0.583277371	0.005816664	590.8083496	0.008340376	0.007979575	0.092866845
SANTA CLARA	2043 T6 instate heavy	Aggregated	55 DSL	47811.3	0.005842638	0.006651398	0.036712912	0.588161732	0.005736515	607.1990282	0.010638162	0.010177796	0.095443231
SANTA CLARA	2043 T6 instate heavy	Aggregated	60 DSL	32470.04	0.006847339	0.007795174	0.041037613	0.717089056	0.006122625	648.0679733	0.013342117	0.012764943	0.101867261
SANTA CLARA	2043 T6 instate heavy	Aggregated	65 DSL	12636.72	0.00834036	0.009494864	0.051515681	0.970091149	0.006747626	714.2231328	0.01645224	0.015740524	0.11226593
SANTA CLARA	2043 T6 instate heavy	Aggregated	70 DSL	1078.312	0.01023396	0.011650584	0.067410629	0.970870883	0.006747626	714.2231328	0.01645224	0.015740524	0.11226593
SANTA CLARA	2043 T6 instate heavy	Aggregated	75 DSL	32.14225	0.012594255	0.014337601	0.089186455	0.974914871	0.006747626	714.2231328	0.01645224	0.015740524	0.11226593
SANTA CLARA	2043 T6 instate heavy	Aggregated	80 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T6 instate heavy	Aggregated	85 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T6 instate heavy	Aggregated	90 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T6 instate small	Aggregated	5 DSL	4786.169	0.05178706	0.058955626	0.787984816	7.008214305	0.018060263	1911.643828	0.00471936	0.004515203	0.300483788
SANTA CLARA	2043 T6 instate small	Aggregated	10 DSL	10857.61	0.032496855	0.036995196	0.484463615	5.276548944	0.014931997	1580.522957	0.004150223	0.003970687	0.248436199
SANTA CLARA	2043 T6 instate small	Aggregated	15 DSL	13868.44	0.018066448	0.020567276	0.262487859	3.688670358	0.011750232	1243.739254	0.003287982	0.003145746	0.195498491
SANTA CLARA	2043 T6 instate small	Aggregated	20 DSL	18293.36	0.012272394	0.013971187	0.175307064	2.914041244	0.010034513	1062.133774	0.002793785	0.002672927	0.166952638
SANTA CLARA	2043 T6 instate small	Aggregated	25 DSL	25561.95	0.009637692	0.010971779	0.133987326	2.267476034	0.00875696	926.9072439	0.00266763	0.002552229	0.145696911
SANTA CLARA	2043 T6 instate small	Aggregated	30 DSL	32589.22	0.007794969	0.008873979	0.102788475	1.687632813	0.007693313	814.3222467	0.002909518	0.002783654	0.128000117
SANTA CLARA	2043 T6 instate small	Aggregated	35 DSL	27275.65	0.006419642	0.007308274	0.077479332	1.224056897	0.006876256	727.8383621	0.00351945	0.0033672	0.114406055
SANTA CLARA	2043 T6 instate small	Aggregated	40 DSL	16529.82	0.005511711	0.006274664	0.058059896	0.876605873	0.006305789	667.4555898	0.004497424	0.004302868	0.104914724
SANTA CLARA	2043 T6 instate small	Aggregated	45 DSL	12215.39	0.005071176	0.005773148	0.044530169	0.644928292	0.005981913	633.173931	0.005843442	0.005590657	0.099526124
SANTA CLARA	2043 T6 instate small	Aggregated	50 DSL	25228.43	0.005098036	0.005803726	0.03689015	0.528969289	0.005904628	624.9933847	0.007557503	0.007230569	0.098240257
SANTA CLARA	2043 T6 instate small	Aggregated	55 DSL	63043.79	0.005592292	0.006366399	0.035139839	0.528663013	0.006073932	642.9139518	0.009639607	0.009222602	0.10105712
SANTA CLARA	2043 T6 instate small	Aggregated	60 DSL	42814.87	0.006553944	0.007461167	0.039279236	0.643625543	0.006489827	686.9356323	0.012089754	0.011566756	0.107976715
SANTA CLARA	2043 T6 instate small	Aggregated	65 DSL	16662.73	0.007982992	0.009088029	0.04930834	0.873880493	0.007152313	757.0584253	0.014907944	0.014263033	0.118999042
SANTA CLARA	2043 T6 instate small	Aggregated	70 DSL	1421.858	0.009863249	0.011228558	0.065091281	0.874582896	0.007152313	757.0584253	0.014907944	0.014263033	0.118999042
SANTA CLARA	2043 T6 instate small	Aggregated	75 DSL	42.38265	0.012206912	0.01389664	0.086713658	0.878225813	0.007152313	757.0584253	0.014907944	0.014263033	0.118999042
SANTA CLARA	2043 T6 instate small	Aggregated	80 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T6 instate small	Aggregated	85 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T6 instate small	Aggregated	90 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T6 OOS heavy	Aggregated	5 DSL	44.2318	0.048167014	0.054834479	0.732902679	6.167692902	0.016007357	1694.347724	0.003950958	0.003780041	0.266327867
SANTA CLARA	2043 T6 OOS heavy	Aggregated	10 DSL	100.4459	0.030225243	0.034409139	0.45059838	4.64226822	0.013234681	1400.865284	0.003474487	0.003324183	0.220196514
SANTA CLARA	2043 T6 OOS heavy	Aggregated	15 DSL	98.02625	0.016803558	0.019129572	0.244139292	3.242418947	0.010414586	1102.363706	0.002752636	0.002633558	0.173276223
SANTA CLARA	2043 T6 OOS heavy	Aggregated	20 DSL	126.7507	0.011414523	0.012994565	0.163052656	2.562218226	0.008893867	941.3985388	0.002338903	0.002237723	0.147974741
SANTA CLARA	2043 T6 OOS heavy	Aggregated	25 DSL	108.9641	0.008963993	0.010204824	0.124621272	1.994054646	0.007761515	821.5412645	0.002233289	0.002136678	0.129134846
SANTA CLARA	2043 T6 OOS heavy	Aggregated	30 DSL	69.15438	0.007250081	0.008253666	0.0956033	1.483119231	0.006818749	721.7513344	0.002435793	0.002330422	0.113449259
SANTA CLARA	2043 T6 OOS heavy	Aggregated	35 DSL	99.42999	0.005970893	0.006797407	0.07206333	1.073974496	0.006094539	645.0951029	0.002946416	0.002818955	0.101399967
SANTA CLARA	2043 T6 OOS heavy	Aggregated	40 DSL	97.24169	0.005126429	0.005836049	0.054001362	0.767075915	0.005588838	591.5676488	0.003765157	0.003602278	0.092986196
SANTA CLARA	2043 T6 OOS heavy	Aggregated	45 DSL	124.2267	0.004716688	0.00536959	0.041417398	0.562041251	0.005301775	561.1825769	0.004892018	0.004680391	0.088210086
SANTA CLARA	2043 T6 OOS heavy	Aggregated	50 DSL	166.1079	0.004741671	0.005398031	0.034311435	0.459068425	0.005233212	553.9253131	0.006326996	0.006053293	0.087069345
SANTA CLARA	2043 T6 OOS heavy	Aggregated	55 DSL	390.5302	0.005201377	0.005921372	0.032683475	0.457873459	0.005383184	569.7995721	0.008070094	0.007720985	0.089564558
SANTA CLARA	2043 T6 OOS heavy	Aggregated	60 DSL	1357.339	0.006095807	0.006939612	0.036533518	0.557878161	0.005751678	608.8039447	0.01012131	0.009683467	0.095695502
SANTA CLARA	2043 T6 OOS heavy	Aggregated	65 DSL	2618.201	0.007424961	0.008452753	0.045861562	0.759368361	0.006338812	670.9510091	0.012480645	0.011940738	0.105464155
SANTA CLARA	2043 T6 OOS heavy	Aggregated	70 DSL	31.35958	0.009188078	0.010459928	0.06066123	0.757509738	0.006338812	670.9510091	0.012480645	0.011940738	0.105464155
SANTA CLARA	2043 T6 OOS heavy	Aggregated	75 DSL	0.011738	0.011385732	0.012961789	0.08093654	0.757258401	0.006338812	670.9510091	0.012480645	0.011940738	0.105464155
SANTA CLARA	2043 T6 OOS heavy	Aggregated	80 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T6 OOS heavy	Aggregated	85 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T6 OOS heavy	Aggregated	90 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T6 OOS small	Aggregated	5 DSL	5.807198	0.049256884	0.056075213	0.749485998	6.429839061	0.017793205	1883.37629	0.004182407	0.004001478	0.296040525
SANTA CLARA	2043 T6 OOS small	Aggregated	10 DSL	13.18755	0.030909147	0.035187711	0.460794026	4.84000826	0.014711197	1557.151713	0.003678025	0.003518915	0.246162565
SANTA CLARA	2043 T6 OOS small	Aggregated	15 DSL	12.86988	0.017183771	0.019562415	0.249663408	3.380940748	0.011576481	1225.348042	0.002913887	0.002787834	0.192607648
SANTA CLARA	2043 T6 OOS small	Aggregated	20 DSL	16.64112	0.011672798	0.013288592	0.166742032	2.67190991	0.009886133	1046.427968	0.002475917	0.00236881	0.164483904
SANTA CLARA	2043 T6 OOS small	Aggregated	25 DSL	14.30591	0.009166821	0.010435727	0.127441066	2.079496013	0.008627471	913.201037	0.002364116	0.002261845	0.143542486
SANTA CLARA	2043 T6 OOS small	Aggregated	30 DSL	9.079287	0.007414128	0.008440421	0.097766506	1.546743675	0.007579552	802.2808378	0.002578483	0.002466939	0.126107375
SANTA CLARA	2043 T6 OOS small	Aggregated	35 DSL	13.05418	0.006105996	0.006951212	0.0736939	1.120165691	0.006774577	717.0757931	0.003119019	0.002984091	0.112714329
SANTA CLARA	2043 T6 OOS small	Aggregated	40 DSL	12.76687	0.005242424	0.005968101	0.055223246	0.800237023	0.00612546	657.5859028	0.003985723	0.003813302	0.103363346
SANTA CLARA	2043 T6 OOS small	Aggregated	45 DSL	16.30974	0.004823412	0.005491087	0.042354545	0.586558981	0.005893459	623.811168	0.005178595	0.004954571	0.098054429
SANTA CLARA	2043 T6 OOS small	Aggregated	50 DSL	21.80833	0.00484896	0.005520172	0.035087797	0.479338428	0.005817316	615.7515876	0.006697636	0.006407899	0.096787575

SANTA CLARA	2043 T6 OOS small	Aggregated	55 DSL	51.27275	0.005319068	0.006055354	0.033423001	0.478279564	0.005984117	633.4071627	0.008542845	0.008173285	0.099562785
SANTA CLARA	2043 T6 OOS small	Aggregated	60 DSL	178.2051	0.006233736	0.007096634	0.037360158	0.582778429	0.006393862	676.7778933	0.010714223	0.01025073	0.10638006
SANTA CLARA	2043 T6 OOS small	Aggregated	65 DSL	343.7439	0.007592965	0.008644012	0.046899268	0.79313342	0.007046551	745.8637783	0.013211769	0.012640234	0.117239399
SANTA CLARA	2043 T6 OOS small	Aggregated	70 DSL	4.117203	0.00939344	0.010693717	0.062012523	0.791192154	0.007046551	745.8637783	0.013211769	0.012640234	0.117239399
SANTA CLARA	2043 T6 OOS small	Aggregated	75 DSL	0.001541	0.01163766	0.01324859	0.082717442	0.790929641	0.007046551	745.8637783	0.013211769	0.012640234	0.117239399
SANTA CLARA	2043 T6 OOS small	Aggregated	80 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T6 OOS small	Aggregated	85 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T6 OOS small	Aggregated	90 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T6 Public	Aggregated	5 DSL	583.6897	0.059569434	0.067815266	0.682233776	5.318068309	0.018438763	1951.70731	0.005060224	0.004841321	0.30678121
SANTA CLARA	2043 T6 Public	Aggregated	10 DSL	1110.594	0.039651969	0.045140748	0.424831496	4.029839857	0.015277346	1617.077434	0.004392224	0.004202218	0.254182054
SANTA CLARA	2043 T6 Public	Aggregated	15 DSL	888.3003	0.022369065	0.025465477	0.233186323	2.82849939	0.012039459	1274.353368	0.003357074	0.003211848	0.200310603
SANTA CLARA	2043 T6 Public	Aggregated	20 DSL	662.7143	0.014511699	0.016520464	0.156129033	2.233415804	0.010278701	1087.980586	0.002704282	0.002587296	0.171015397
SANTA CLARA	2043 T6 Public	Aggregated	25 DSL	939.0097	0.011191358	0.012740509	0.11940516	1.761297556	0.008978078	950.3121182	0.002478206	0.002370999	0.149375831
SANTA CLARA	2043 T6 Public	Aggregated	30 DSL	1303.747	0.008951195	0.010190254	0.091913879	1.342809988	0.007901347	836.3422606	0.002550192	0.002439872	0.131461357
SANTA CLARA	2043 T6 Public	Aggregated	35 DSL	1663.643	0.007272555	0.00827925	0.069706037	1.007629496	0.007073632	748.7302726	0.002886817	0.002761934	0.117689972
SANTA CLARA	2043 T6 Public	Aggregated	40 DSL	1913.058	0.006124142	0.006971869	0.052703461	0.755436577	0.006494372	687.4166471	0.003487276	0.003336418	0.108052324
SANTA CLARA	2043 T6 Public	Aggregated	45 DSL	1771.577	0.005482892	0.006241855	0.040848541	0.587397654	0.006163235	652.3665	0.00435107	0.004162844	0.102542929
SANTA CLARA	2043 T6 Public	Aggregated	50 DSL	1274.651	0.005331811	0.006069886	0.034098822	0.50324699	0.006080015	643.5577949	0.005477865	0.005240895	0.101158323
SANTA CLARA	2043 T6 Public	Aggregated	55 DSL	1500.769	0.005658372	0.006441626	0.032423019	0.502808372	0.006244572	660.9758119	0.00686743	0.006570348	0.103896193
SANTA CLARA	2043 T6 Public	Aggregated	60 DSL	1723.829	0.006456441	0.007350167	0.03581319	0.585038655	0.006657778	704.7129438	0.008464941	0.008098752	0.110771061
SANTA CLARA	2043 T6 Public	Aggregated	65 DSL	733.3825	0.007671917	0.008733894	0.04415132	0.749263757	0.007318244	774.6219795	0.010248084	0.009804757	0.121759788
SANTA CLARA	2043 T6 Public	Aggregated	70 DSL	310.7019	0.009222826	0.010499486	0.057169704	0.750526362	0.007318244	774.6219795	0.010248084	0.009804757	0.121759788
SANTA CLARA	2043 T6 Public	Aggregated	75 DSL	75.62901	0.011155971	0.012700224	0.075004684	0.751956994	0.007318244	774.6219795	0.010248084	0.009804757	0.121759788
SANTA CLARA	2043 T6 Public	Aggregated	80 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T6 Public	Aggregated	85 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T6 Public	Aggregated	90 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T6 utility	Aggregated	5 DSL	38.77722	0.04155368	0.047305701	0.632275056	4.546964691	0.017750063	1878.809771	0.002545743	0.002435616	0.295322732
SANTA CLARA	2043 T6 utility	Aggregated	10 DSL	139.3123	0.026075315	0.029684761	0.38873117	3.425097137	0.014675528	1553.376174	0.002238737	0.00214189	0.244169102
SANTA CLARA	2043 T6 utility	Aggregated	15 DSL	148.2375	0.014496428	0.01650308	0.210618939	2.389730485	0.011548412	1222.377008	0.001773622	0.001696896	0.192140643
SANTA CLARA	2043 T6 utility	Aggregated	20 DSL	124.9337	0.009847308	0.011210411	0.140665507	1.885071656	0.009862162	1043.890752	0.001507039	0.001444845	0.164085089
SANTA CLARA	2043 T6 utility	Aggregated	25 DSL	148.701	0.007733236	0.008803701	0.107510757	1.467347392	0.008606552	910.986849	0.001438988	0.001376738	0.143194446
SANTA CLARA	2043 T6 utility	Aggregated	30 DSL	192.6901	0.006254645	0.007120437	0.082476956	1.092029347	0.007561174	800.3355919	0.001569468	0.001501574	0.12580161
SANTA CLARA	2043 T6 utility	Aggregated	35 DSL	235.0635	0.005151089	0.005864123	0.062169026	0.791610181	0.006758151	715.3371391	0.001898481	0.001816354	0.112441037
SANTA CLARA	2043 T6 utility	Aggregated	40 DSL	309.4877	0.00442257	0.005034759	0.046586969	0.566044934	0.006197482	655.9914907	0.002426026	0.002321077	0.103112727
SANTA CLARA	2043 T6 utility	Aggregated	45 DSL	318.3544	0.004069086	0.004632345	0.035730784	0.415141428	0.005879169	622.2986476	0.003152102	0.003015743	0.097816681
SANTA CLARA	2043 T6 utility	Aggregated	50 DSL	294.7595	0.004090639	0.004656881	0.029600471	0.338895899	0.005803211	614.2586088	0.00407671	0.003900353	0.096552899
SANTA CLARA	2043 T6 utility	Aggregated	55 DSL	458.4849	0.004487228	0.005108367	0.02819603	0.337749126	0.005969607	631.8713755	0.00519985	0.004974907	0.099321381
SANTA CLARA	2043 T6 utility	Aggregated	60 DSL	309.5557	0.005258852	0.005986803	0.031517461	0.411340978	0.006378359	675.1369474	0.006521522	0.006239404	0.106122126
SANTA CLARA	2043 T6 utility	Aggregated	65 DSL	2.34453	0.006405513	0.007292189	0.039564764	0.56161406	0.007029466	744.0553237	0.008041726	0.007693844	0.116955135
SANTA CLARA	2043 T6 utility	Aggregated	70 DSL	0.000414	0.007972721	0.009024525	0.05233794	0.560458463	0.007029466	744.0553237	0.008041726	0.007693844	0.116955135
SANTA CLARA	2043 T6 utility	Aggregated	75 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T6 utility	Aggregated	80 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T6 utility	Aggregated	85 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T6 utility	Aggregated	90 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T6TS	Aggregated	5 GAS	979.6747	0.060573659	0.088388942	0.335212602	0.155476854	0.030862757	3118.769999	0.007785807	0.007158762	0.015072609
SANTA CLARA	2043 T6TS	Aggregated	10 GAS	5158.653	0.038089219	0.055579699	0.305097178	0.135242156	0.025053824	2531.760638	0.004898811	0.004504276	0.013110969
SANTA CLARA	2043 T6TS	Aggregated	15 GAS	5818.674	0.02541046	0.037078883	0.279963505	0.118279485	0.020488876	2070.45954	0.003251714	0.002989831	0.011466533
SANTA CLARA	2043 T6TS	Aggregated	20 GAS	6358.011	0.017783588	0.02594977	0.256203481	0.106241155	0.017031006	1721.031906	0.002277035	0.002093649	0.010299523
SANTA CLARA	2043 T6TS	Aggregated	25 GAS	7181.842	0.013137884	0.01917077	0.235229306	0.09684449	0.014557166	1471.043322	0.001682138	0.001546663	0.00938853
SANTA CLARA	2043 T6TS	Aggregated	30 GAS	7807.275	0.010228737	0.01492575	0.216345105	0.089886328	0.012916981	1305.297879	0.001310951	0.001205371	0.008713976
SANTA CLARA	2043 T6TS	Aggregated	35 GAS	11203.13	0.008385476	0.012236067	0.199148137	0.085075589	0.011973767	1209.983467	0.001077823	0.000991018	0.008247601
SANTA CLARA	2043 T6TS	Aggregated	40 GAS	14790.78	0.007263156	0.010598381	0.184082834	0.081639317	0.011590871	1171.290723	0.000934852	0.000859562	0.007914474
SANTA CLARA	2043 T6TS	Aggregated	45 GAS	12918.4	0.006656392	0.009712991	0.17110221	0.079048386	0.011631636	1175.410105	0.000855408	0.000786516	0.007663298
SANTA CLARA	2043 T6TS	Aggregated	50 GAS	12581.55	0.006397045	0.009334553	0.158548293	0.078793306	0.011973046	1209.910539	0.000825731	0.000759229	0.007638569
SANTA CLARA	2043 T6TS	Aggregated	55 GAS	14159.31	0.006486761	0.009465467	0.147336439	0.079836533	0.012464803	1259.604043	0.000840888	0.000773166	0.007739704
SANTA CLARA	2043 T6TS	Aggregated	60 GAS	14955.43	0.006953914	0.010147135	0.1375673	0.081668137	0.012970264	1310.68232	0.000903384	0.000830629	0.007917268
SANTA CLARA	2043 T6TS	Aggregated	65 GAS	1949.664	0.007957777	0.011611969	0.130267297	0.082987052	0.013366469	1350.719961	0.001023864	0.000941405	0.00804513
SANTA CLARA	2043 T7 CAIRP	Aggregated	5 DSL	1715.762	0.123463545	0.140553848	2.107410331	13.72282862	0.022176409	2347.32995	0.011142619	0.010660594	0.36896758
SANTA CLARA	2043 T7 CAIRP	Aggregated	10 DSL	3901.267	0.077474507	0.088198828	1.295664087	10.32840541	0.018335175	1940.742736	0.009798862	0.009374968	0.305057732



SANTA CLARA	2043 T7 CAIRP	Aggregated	15 DSL	3648.339	0.043071527	0.049033655	0.702005438	7.217297578	0.014428248	1527.202064	0.007763073	0.007427246	0.240054897
SANTA CLARA	2043 T7 CAIRP	Aggregated	20 DSL	5330.26	0.029258144	0.03330817	0.468846493	5.703129848	0.012321305	1304.18626	0.00659625	0.006310899	0.204999918
SANTA CLARA	2043 T7 CAIRP	Aggregated	25 DSL	4688.209	0.022976852	0.026157397	0.358339741	4.439117489	0.010752449	1138.125841	0.006298393	0.006025927	0.178897533
SANTA CLARA	2043 T7 CAIRP	Aggregated	30 DSL	2591.224	0.018583688	0.021156114	0.274900594	3.303286559	0.009446213	999.8632934	0.006869502	0.00657233	0.157164586
SANTA CLARA	2043 T7 CAIRP	Aggregated	35 DSL	3464.229	0.015304823	0.0117423376	0.207213059	2.393333871	0.008442732	893.6468545	0.008309577	0.007950109	0.140468841
SANTA CLARA	2043 T7 CAIRP	Aggregated	40 DSL	3206.647	0.013140259	0.014959185	0.155277136	1.709574468	0.007741663	819.4400538	0.010618619	0.010159262	0.128804565
SANTA CLARA	2043 T7 CAIRP	Aggregated	45 DSL	4271.695	0.012089996	0.01376354	0.119092826	1.253881958	0.007343958	777.3437105	0.013796626	0.01319979	0.122187606
SANTA CLARA	2043 T7 CAIRP	Aggregated	50 DSL	6287.451	0.012154033	0.013836441	0.098660129	1.025585421	0.007248596	767.249823	0.0178436	0.017071694	0.120600988
SANTA CLARA	2043 T7 CAIRP	Aggregated	55 DSL	15094.34	0.01333237	0.015177888	0.093979044	1.023346912	0.007455837	789.1859139	0.02275954	0.021774972	0.124049036
SANTA CLARA	2043 T7 CAIRP	Aggregated	60 DSL	55079.93	0.015625007	0.017787881	0.105049571	1.246940303	0.007965583	843.1415404	0.028544446	0.027309626	0.132530109
SANTA CLARA	2043 T7 CAIRP	Aggregated	65 DSL	100914.3	0.019031945	0.021666421	0.131871711	1.696393876	0.008778715	929.2099243	0.035198318	0.033675654	0.14605886
SANTA CLARA	2043 T7 CAIRP	Aggregated	70 DSL	1240.184	0.023543887	0.026802923	0.174357922	1.692548442	0.008778715	929.2099243	0.035198318	0.033675654	0.14605886
SANTA CLARA	2043 T7 CAIRP	Aggregated	75 DSL	0.392945	0.029167838	0.033205363	0.232563355	1.692416294	0.008778715	929.2099243	0.035198318	0.033675654	0.14605886
SANTA CLARA	2043 T7 CAIRP	Aggregated	80 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T7 CAIRP	Aggregated	85 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T7 CAIRP	Aggregated	90 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T7 CAIRP construction	Aggregated	5 DSL	2444.037	0.124304925	0.141511695	2.1217719717	13.89751594	0.024571226	2600.816647	0.01129534	0.010806709	0.408812158
SANTA CLARA	2043 T7 CAIRP construction	Aggregated	10 DSL	1681.096	0.078002481	0.088799886	1.304493782	10.42839017	0.020315179	2150.322334	0.009933166	0.009503461	0.338000726
SANTA CLARA	2043 T7 CAIRP construction	Aggregated	15 DSL	357.1168	0.043365051	0.04936781	0.706789467	7.285082614	0.015986345	1692.123663	0.007869474	0.007529044	0.265978276
SANTA CLARA	2043 T7 CAIRP construction	Aggregated	20 DSL	355.7545	0.029457533	0.033535159	0.47204159	5.754741309	0.013652088	1445.047011	0.006686658	0.006397396	0.227141267
SANTA CLARA	2043 T7 CAIRP construction	Aggregated	25 DSL	479.8412	0.023133435	0.026335655	0.360781756	4.480429001	0.01191396	1261.069534	0.006384719	0.006108519	0.198222569
SANTA CLARA	2043 T7 CAIRP construction	Aggregated	30 DSL	576.0313	0.018710332	0.021300289	0.276773987	3.333843709	0.010466854	1107.89616	0.006963656	0.006662411	0.174145848
SANTA CLARA	2043 T7 CAIRP construction	Aggregated	35 DSL	743.8862	0.015409123	0.017542113	0.208625175	2.416626372	0.009355237	990.2336936	0.008423469	0.008059073	0.155650947
SANTA CLARA	2043 T7 CAIRP construction	Aggregated	40 DSL	953.7766	0.013229808	0.015061129	0.156335119	1.728621756	0.00857911	908.0821354	0.010764158	0.010298505	0.142737866
SANTA CLARA	2043 T7 CAIRP construction	Aggregated	45 DSL	1158.911	0.012172387	0.013857336	0.11990442	1.267742627	0.008138472	861.4414863	0.013985724	0.013506605	0.135406605
SANTA CLARA	2043 T7 CAIRP construction	Aggregated	50 DSL	1164.606	0.01223686	0.013930734	0.099332478	1.034736422	0.008033324	850.3117451	0.018088165	0.017305679	0.133657165
SANTA CLARA	2043 T7 CAIRP construction	Aggregated	55 DSL	1420.921	0.013423227	0.015281323	0.094619492	1.031541841	0.008263665	874.692913	0.023071483	0.022073421	0.137489545
SANTA CLARA	2043 T7 CAIRP construction	Aggregated	60 DSL	5215.415	0.015731489	0.017909103	0.105765464	1.258921894	0.008829496	934.5849902	0.028935678	0.027683933	0.146903746
SANTA CLARA	2043 T7 CAIRP construction	Aggregated	65 DSL	2557	0.019161644	0.021814074	0.132770391	1.710446757	0.009730816	1029.987975	0.035680748	0.034137215	0.161899766
SANTA CLARA	2043 T7 CAIRP construction	Aggregated	70 DSL	570.9005	0.023705565	0.026986981	0.17555773	1.718406475	0.009730816	1029.987975	0.035680748	0.034137215	0.161899766
SANTA CLARA	2043 T7 CAIRP construction	Aggregated	75 DSL	452.9649	0.029369377	0.03343448	0.234175704	1.721254453	0.009730816	1029.987975	0.035680748	0.034137215	0.161899766
SANTA CLARA	2043 T7 CAIRP construction	Aggregated	80 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T7 CAIRP construction	Aggregated	85 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T7 CAIRP construction	Aggregated	90 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T7 NNOOS	Aggregated	5 DSL	2091.552	0.115934566	0.131982678	1.978897624	12.50366578	0.022180907	2347.806028	0.009776814	0.009353874	0.369042413
SANTA CLARA	2043 T7 NNOOS	Aggregated	10 DSL	4755.732	0.072750003	0.082820341	1.216652754	9.41072037	0.018338894	1941.136352	0.008597768	0.008225832	0.305119603
SANTA CLARA	2043 T7 NNOOS	Aggregated	15 DSL	4447.407	0.040444965	0.046043514	0.659196205	6.57595112	0.014431174	1527.511807	0.006811515	0.006516852	0.240103584
SANTA CLARA	2043 T7 NNOOS	Aggregated	20 DSL	6497.706	0.027473942	0.031276992	0.440255606	5.196288244	0.012323835	1304.453994	0.005787715	0.005537341	0.205042002
SANTA CLARA	2043 T7 NNOOS	Aggregated	25 DSL	5715.032	0.021575692	0.024562283	0.336487703	4.044594352	0.010754681	1138.362144	0.005526368	0.0052873	0.178934676
SANTA CLARA	2043 T7 NNOOS	Aggregated	30 DSL	3158.761	0.017450429	0.019865985	0.258136787	3.009693755	0.009448207	1000.074428	0.006027474	0.005766728	0.157197773
SANTA CLARA	2043 T7 NNOOS	Aggregated	35 DSL	4222.972	0.014371514	0.016360875	0.194576929	2.180592016	0.008444556	893.8399161	0.007291032	0.006975625	0.140499187
SANTA CLARA	2043 T7 NNOOS	Aggregated	40 DSL	3908.975	0.012338948	0.014046953	0.145808128	1.557576216	0.007743438	819.6279193	0.009317043	0.008913992	0.128834095
SANTA CLARA	2043 T7 NNOOS	Aggregated	45 DSL	5207.292	0.011352731	0.01292422	0.111830386	1.142353387	0.007345654	777.5232748	0.012105507	0.011581828	0.122215831
SANTA CLARA	2043 T7 NNOOS	Aggregated	50 DSL	7664.543	0.011412863	0.012992675	0.092643702	0.934312128	0.007250346	767.4351015	0.015656424	0.014979134	0.120630111
SANTA CLARA	2043 T7 NNOOS	Aggregated	55 DSL	18400.34	0.012519343	0.014252319	0.088248076	0.932233475	0.007457733	789.3865592	0.019969793	0.019105909	0.124080574
SANTA CLARA	2043 T7 NNOOS	Aggregated	60 DSL	67143.66	0.014672173	0.016703152	0.098643508	1.135911526	0.007967731	843.3688606	0.025045615	0.023962153	0.13256584
SANTA CLARA	2043 T7 NNOOS	Aggregated	65 DSL	123016.8	0.017871351	0.020345172	0.123829997	1.545372074	0.008781081	929.4604495	0.03088389	0.029547866	0.146098239
SANTA CLARA	2043 T7 NNOOS	Aggregated	70 DSL	1511.812	0.02210906	0.025169481	0.163733928	1.541868981	0.008781081	929.4604495	0.03088389	0.029547866	0.146098239
SANTA CLARA	2043 T7 NNOOS	Aggregated	75 DSL	0.479009	0.027391191	0.031182785	0.21840168	1.541748597	0.008781081	929.4604495	0.03088389	0.029547866	0.146098239
SANTA CLARA	2043 T7 NNOOS	Aggregated	80 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T7 NNOOS	Aggregated	85 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T7 NNOOS	Aggregated	90 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T7 NOOS	Aggregated	5 DSL	674.1089	0.123611073	0.140721798	2.109928507	13.74604623	0.022188508	2348.610551	0.011169335	0.010686155	0.369168872
SANTA CLARA	2043 T7 NOOS	Aggregated	10 DSL	1532.776	0.077567082	0.088304218	1.297212295	10.34597591	0.018345178	1941.801521	0.009822356	0.009397446	0.305224158
SANTA CLARA	2043 T7 NOOS	Aggregated	15 DSL	1433.403	0.043122994	0.049092246	0.702844275	7.229666696	0.014436119	1528.03524	0.007781686	0.007445054	0.240185861
SANTA CLARA	2043 T7 NOOS	Aggregated	20 DSL	2094.216	0.029293105	0.033347971	0.469406725	5.712955396	0.012328012	1304.896123	0.006612065	0.00632603	0.205111499
SANTA CLARA	2043 T7 NOOS	Aggregated	25 DSL	1841.96	0.023004308	0.026188653	0.358767926	4.446781767	0.010758288	1138.74396	0.006313494	0.006040375	0.178994693
SANTA CLARA	2043 T7 NOOS	Aggregated	30 DSL	1018.071	0.018605894	0.021181394	0.275229076	3.309006704	0.009451326	1000.404515	0.006885973	0.006588088	0.157249658
SANTA CLARA	2043 T7 NOOS	Aggregated	35 DSL	1361.068	0.015323111	0.017444196	0.207460661	2.397504834	0.008447281	894.1283581	0.008329501	0.00796917	0.140544526

SANTA CLARA	2043 T7 NOOS	Aggregated	40 DSL	1259.866	0.013155961	0.01497706	0.155462679	1.712591709	0.007745782	819.8760429	0.010644078	0.01018362	0.128873096
SANTA CLARA	2043 T7 NOOS	Aggregated	45 DSL	1678.314	0.012104442	0.013779986	0.119235132	1.256144235	0.007347859	777.7566128	0.013829706	0.013231439	0.122252509
SANTA CLARA	2043 T7 NOOS	Aggregated	50 DSL	2470.289	0.012168556	0.013852974	0.098778019	1.027490447	0.007252407	767.6532563	0.017886383	0.017112626	0.120664402
SANTA CLARA	2043 T7 NOOS	Aggregated	55 DSL	5930.444	0.013348301	0.015196024	0.094091341	1.025290017	0.007459709	789.5957411	0.022814109	0.021827181	0.124113455
SANTA CLARA	2043 T7 NOOS	Aggregated	60 DSL	21640.46	0.015643678	0.017809137	0.105175097	1.249316287	0.007969657	843.5727724	0.028612886	0.027375105	0.132597892
SANTA CLARA	2043 T7 NOOS	Aggregated	65 DSL	39648.4	0.019054687	0.021692311	0.132029286	1.699597559	0.008783205	929.6851767	0.035282712	0.033756397	0.146133563
SANTA CLARA	2043 T7 NOOS	Aggregated	70 DSL	487.2581	0.023571313	0.026834146	0.174559612	1.695744863	0.008783205	929.6851767	0.035282712	0.033756397	0.146133563
SANTA CLARA	2043 T7 NOOS	Aggregated	75 DSL	0.154385	0.029201104	0.032343234	0.232825482	1.695612465	0.008783205	929.6851767	0.035282712	0.033756397	0.146133563
SANTA CLARA	2043 T7 NOOS	Aggregated	80 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T7 NOOS	Aggregated	85 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T7 NOOS	Aggregated	90 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T7 other port	Aggregated	5 DSL	1105.957	0.131124425	0.149275177	2.238174461	15.04512323	0.023684398	2506.947572	0.012533084	0.011990909	0.394057247
SANTA CLARA	2043 T7 other port	Aggregated	10 DSL	2011.658	0.082281779	0.093671542	1.376059625	11.29503164	0.019581961	2072.712569	0.011021643	0.010544851	0.325801552
SANTA CLARA	2043 T7 other port	Aggregated	15 DSL	1859.936	0.045744104	0.05207618	0.745564649	7.881839986	0.015409364	1631.051275	0.008731811	0.008354077	0.256378547
SANTA CLARA	2043 T7 other port	Aggregated	20 DSL	1438.221	0.031073605	0.035374933	0.497938267	6.21619884	0.013159354	1392.892152	0.007419383	0.007098423	0.218943249
SANTA CLARA	2043 T7 other port	Aggregated	25 DSL	1494.648	0.02440256	0.027780457	0.380574606	4.838224217	0.011483959	1215.554818	0.007084357	0.00677789	0.19106829
SANTA CLARA	2043 T7 other port	Aggregated	30 DSL	1852.142	0.019736801	0.022468845	0.291958087	3.601450022	0.010089082	1067.909801	0.007726733	0.007392478	0.167860549
SANTA CLARA	2043 T7 other port	Aggregated	35 DSL	2286.464	0.016254484	0.018504492	0.220070562	2.609912546	0.009017586	954.4940268	0.009346513	0.008942187	0.150033169
SANTA CLARA	2043 T7 other port	Aggregated	40 DSL	2837.196	0.013955609	0.015887399	0.164912032	1.866237301	0.008269471	875.3074952	0.011943695	0.011427016	0.137586149
SANTA CLARA	2043 T7 other port	Aggregated	45 DSL	2969.364	0.012840177	0.014617564	0.126482498	1.369155709	0.007844737	830.3502077	0.01551828	0.014846966	0.130519489
SANTA CLARA	2043 T7 other port	Aggregated	50 DSL	3017.913	0.012908187	0.014694988	0.104781958	1.117255777	0.007743384	819.6221627	0.020070267	0.019202036	0.12883319
SANTA CLARA	2043 T7 other port	Aggregated	55 DSL	2646.304	0.01415964	0.016119672	0.099810413	1.112153888	0.007965411	843.1233618	0.025599658	0.024492228	0.132527251
SANTA CLARA	2043 T7 other port	Aggregated	60 DSL	1746.639	0.016594535	0.018891615	0.111567863	1.353791427	0.00851082	900.8538049	0.032106451	0.03071754	0.141601673
SANTA CLARA	2043 T7 other port	Aggregated	65 DSL	687.0358	0.020212873	0.023010817	0.140054308	1.840902276	0.00937961	992.8134907	0.039590646	0.037877972	0.156056455
SANTA CLARA	2043 T7 other port	Aggregated	70 DSL	15.70449	0.025014652	0.028477278	0.185269748	1.836396793	0.00937961	992.8134907	0.039590646	0.037877972	0.156056455
SANTA CLARA	2043 T7 other port	Aggregated	75 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T7 other port	Aggregated	80 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T7 other port	Aggregated	85 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T7 other port	Aggregated	90 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T7 POAK	Aggregated	5 DSL	9534.11	0.13210766	0.150394515	2.254957366	15.20528505	0.023685558	2507.070352	0.012711462	0.01216157	0.394076546
SANTA CLARA	2043 T7 POAK	Aggregated	10 DSL	17341.88	0.082898768	0.094373937	1.386377979	11.41527212	0.01958292	2072.814082	0.011178509	0.010694932	0.325817508
SANTA CLARA	2043 T7 POAK	Aggregated	15 DSL	16033.93	0.046087115	0.052466673	0.75115525	7.96574557	0.015410118	1631.131157	0.008856087	0.008472977	0.256391103
SANTA CLARA	2043 T7 POAK	Aggregated	20 DSL	12398.46	0.03130661	0.035640192	0.501672046	6.282372957	0.013159999	1392.96037	0.00752498	0.007199452	0.218953972
SANTA CLARA	2043 T7 POAK	Aggregated	25 DSL	12884.9	0.024585542	0.027988768	0.383428337	4.889729199	0.011484522	1215.614351	0.007185185	0.006874357	0.191077647
SANTA CLARA	2043 T7 POAK	Aggregated	30 DSL	15966.74	0.019884797	0.022637327	0.294147328	3.63978901	0.010089576	1067.962103	0.007836705	0.007497692	0.16786877
SANTA CLARA	2043 T7 POAK	Aggregated	35 DSL	19710.9	0.016376368	0.018643248	0.221720756	2.63769619	0.009018028	954.5407739	0.009479538	0.009069457	0.150040517
SANTA CLARA	2043 T7 POAK	Aggregated	40 DSL	24458.59	0.014060255	0.01600653	0.166148622	1.886104202	0.008269876	875.3503641	0.012113685	0.011589652	0.137592887
SANTA CLARA	2043 T7 POAK	Aggregated	45 DSL	25597.97	0.012936459	0.014727174	0.127430924	1.383730962	0.007845121	830.3908747	0.015739145	0.015058277	0.130525882
SANTA CLARA	2043 T7 POAK	Aggregated	50 DSL	26016.5	0.013004979	0.014805179	0.105567663	1.129149446	0.007743763	819.6623044	0.020355919	0.019475331	0.1288395
SANTA CLARA	2043 T7 POAK	Aggregated	55 DSL	22812.97	0.014265816	0.016240545	0.100558839	1.123993246	0.007965802	843.1646544	0.025964007	0.024840815	0.132533742
SANTA CLARA	2043 T7 POAK	Aggregated	60 DSL	15057.23	0.016718969	0.019033273	0.112404453	1.368203121	0.008511237	900.8979249	0.032563408	0.03115473	0.141608608
SANTA CLARA	2043 T7 POAK	Aggregated	65 DSL	5922.724	0.020364438	0.023183363	0.141104502	1.860499474	0.009380069	992.8621145	0.040154123	0.038417074	0.156064098
SANTA CLARA	2043 T7 POAK	Aggregated	70 DSL	135.3835	0.025202224	0.028690814	0.18665899	1.855946029	0.009380069	992.8621145	0.040154123	0.038417074	0.156064098
SANTA CLARA	2043 T7 POAK	Aggregated	75 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T7 POAK	Aggregated	80 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T7 POAK	Aggregated	85 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T7 POAK	Aggregated	90 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T7 Public	Aggregated	5 DSL	315.972	0.223475733	0.254410111	1.663785604	10.48399521	0.027288971	2888.484651	0.020340299	0.019460386	0.454029563
SANTA CLARA	2043 T7 Public	Aggregated	10 DSL	554.4872	0.160909553	0.183183278	1.077197916	8.137572464	0.022818651	2415.309973	0.01731435	0.016565339	0.379653093
SANTA CLARA	2043 T7 Public	Aggregated	15 DSL	425.8737	0.093743763	0.106720139	0.61667584	5.748835208	0.018095589	1915.383007	0.012554371	0.012011124	0.301071535
SANTA CLARA	2043 T7 Public	Aggregated	20 DSL	317.9874	0.058450075	0.066540961	0.417743649	4.537648469	0.01543253	1633.503371	0.00937711	0.008971176	0.256763982
SANTA CLARA	2043 T7 Public	Aggregated	25 DSL	528.6952	0.043787564	0.049848808	0.318995671	3.743039011	0.013531591	1432.292678	0.008114383	0.007763358	0.225136463
SANTA CLARA	2043 T7 Public	Aggregated	30 DSL	859.0941	0.034159656	0.038888168	0.246320709	3.067800845	0.011997125	1269.872374	0.007705308	0.007371979	0.199606253
SANTA CLARA	2043 T7 Public	Aggregated	35 DSL	1008.063	0.026957265	0.030688794	0.188348467	2.524628871	0.010813637	1144.602491	0.007885186	0.007544076	0.179915572
SANTA CLARA	2043 T7 Public	Aggregated	40 DSL	1053.194	0.021853192	0.024878196	0.144175799	2.116774858	0.009976568	1056.00043	0.008648032	0.008273922	0.155988562
SANTA CLARA	2043 T7 Public	Aggregated	45 DSL	1104.93	0.018606316	0.021181874	0.113137148	1.849074749	0.009483247	1003.783277	0.009990121	0.009557953	0.157780753
SANTA CLARA	2043 T7 Public	Aggregated	50 DSL	723.5306	0.017038945	0.019397542	0.094742049	1.712192833	0.009331863	987.7723254	0.011908975	0.011393798	0.155264054
SANTA CLARA	2043 T7 Public	Aggregated	55 DSL	721.9974	0.017020138	0.019376131	0.088629063	1.709269576	0.009521695	1007.848193	0.014402863	0.013779802	0.158419701
SANTA CLARA	2043 T7 Public	Aggregated	60 DSL	846.548	0.018455584	0.021010277	0.095066602	1.838062938	0.01005941	1064.76901	0.017125893	0.016385035	0.167366861

SANTA CLARA	2043 T7 Public	Aggregated	65 DSL	378.4263	0.020828381	0.023711527	0.112846681	2.090977228	0.01093432	1157.376544	0.019921415	0.019059623	0.181923475
SANTA CLARA	2043 T7 Public	Aggregated	70 DSL	206.5072	0.023708885	0.026990761	0.139970641	2.0975159	0.01093432	1157.376544	0.019921415	0.019059623	0.181923475
SANTA CLARA	2043 T7 Public	Aggregated	75 DSL	60.32393	0.027299315	0.031078192	0.177130036	2.100999948	0.01093432	1157.376544	0.019921415	0.019059623	0.181923475
SANTA CLARA	2043 T7 Public	Aggregated	80 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T7 Public	Aggregated	85 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T7 Public	Aggregated	90 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T7 Single	Aggregated	5 DSL	751.3207	0.112195407	0.127725931	1.915073926	11.55293787	0.027333286	2893.175366	0.009076884	0.008684222	0.454766878
SANTA CLARA	2043 T7 Single	Aggregated	10 DSL	1750.642	0.070403647	0.080149193	1.17741309	8.743570068	0.022598816	2392.040828	0.007982247	0.007636938	0.375995507
SANTA CLARA	2043 T7 Single	Aggregated	15 DSL	2177.128	0.039140521	0.044558504	0.637935712	6.152080693	0.017783376	1882.335882	0.006323874	0.006050306	0.295876988
SANTA CLARA	2043 T7 Single	Aggregated	20 DSL	2781.597	0.026587844	0.030268236	0.426056417	4.881451613	0.015186724	1607.485257	0.005373368	0.005140919	0.252674297
SANTA CLARA	2043 T7 Single	Aggregated	25 DSL	3823.782	0.020879826	0.023770092	0.325635252	3.805245372	0.013253212	1402.826806	0.005130731	0.004908778	0.220504838
SANTA CLARA	2043 T7 Single	Aggregated	30 DSL	4820.421	0.016887612	0.019225261	0.249811321	2.839367826	0.011643436	1232.435159	0.005595962	0.005353883	0.193721644
SANTA CLARA	2043 T7 Single	Aggregated	35 DSL	4154.644	0.013907999	0.015833198	0.188301405	2.071806562	0.010406862	1101.546213	0.006769061	0.006476235	0.173147725
SANTA CLARA	2043 T7 Single	Aggregated	40 DSL	2660.788	0.011940988	0.013593906	0.141105503	1.501299636	0.005434391	1010.159969	0.008650029	0.008275832	0.158783008
SANTA CLARA	2043 T7 Single	Aggregated	45 DSL	2132.254	0.010986579	0.010823616	0.108223616	1.127168015	0.009053321	958.2764284	0.011238864	0.010752676	0.150627771
SANTA CLARA	2043 T7 Single	Aggregated	50 DSL	5040.498	0.011044772	0.012573632	0.089655744	0.949586544	0.008936353	945.895589	0.014535568	0.013906765	0.148681614
SANTA CLARA	2043 T7 Single	Aggregated	55 DSL	12975.01	0.012115565	0.013792649	0.085401886	0.968036955	0.009192586	973.0174527	0.018540139	0.017738101	0.152944794
SANTA CLARA	2043 T7 Single	Aggregated	60 DSL	9355.392	0.014198961	0.016164436	0.095462043	1.183195935	0.009822022	1039.642019	0.023252579	0.022246683	0.163417248
SANTA CLARA	2043 T7 Single	Aggregated	65 DSL	2991.449	0.017294958	0.019688994	0.119836214	1.591232106	0.01082466	1145.769288	0.028672887	0.027432511	0.180098976
SANTA CLARA	2043 T7 Single	Aggregated	70 DSL	261.1313	0.021046983	0.023960388	0.155166758	1.59259191	0.01082466	1145.769288	0.028672887	0.027432511	0.180098976
SANTA CLARA	2043 T7 Single	Aggregated	75 DSL	9.664697	0.025723729	0.029284507	0.203569042	1.597990776	0.01082466	1145.769288	0.028672887	0.027432511	0.180098976
SANTA CLARA	2043 T7 Single	Aggregated	80 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T7 Single	Aggregated	85 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T7 Single	Aggregated	90 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T7 single construction	Aggregated	5 DSL	6063.206	0.109711083	0.124897716	1.85052743	11.19107065	0.026180012	2771.103468	0.008545041	0.008175386	0.435578875
SANTA CLARA	2043 T7 single construction	Aggregated	10 DSL	4170.49	0.069030967	0.078586502	1.138165171	8.418850229	0.021647149	2291.308734	0.007510463	0.007185563	0.360161825
SANTA CLARA	2043 T7 single construction	Aggregated	15 DSL	885.9411	0.038354422	0.04366359	0.616883261	5.899845617	0.017035304	1803.153883	0.005940693	0.005683702	0.28343068
SANTA CLARA	2043 T7 single construction	Aggregated	20 DSL	882.5614	0.025955939	0.029548861	0.4670478608	0.014547463	0.004818294	1539.820727	0.005036156	0.004818294	0.242038375
SANTA CLARA	2043 T7 single construction	Aggregated	25 DSL	1190.398	0.020369932	0.023189617	0.314922443	3.641100491	0.01269572	1343.817337	0.004800994	0.004593305	0.211229372
SANTA CLARA	2043 T7 single construction	Aggregated	30 DSL	1429.028	0.016474534	0.018755002	0.241646199	2.71483853	0.011154421	1180.673862	0.005225275	0.004999232	0.185585489
SANTA CLARA	2043 T7 single construction	Aggregated	35 DSL	1845.445	0.013565894	0.015443737	0.18220719	1.975531611	0.009970406	1055.348193	0.006306363	0.006033553	0.165886039
SANTA CLARA	2043 T7 single construction	Aggregated	40 DSL	2366.144	0.011643024	0.013254696	0.136602721	1.423057254	0.009143664	967.8391083	0.008044231	0.007696241	0.15213083
SANTA CLARA	2043 T7 single construction	Aggregated	45 DSL	2875.046	0.010705196	0.012187051	0.104830808	1.055695585	0.008674187	918.1458902	0.010438864	0.009987283	0.144319748
SANTA CLARA	2043 T7 single construction	Aggregated	50 DSL	2889.173	0.010751874	0.01224019	0.086889988	0.874030311	0.008561971	906.2680842	0.013490249	0.012906667	0.142452722
SANTA CLARA	2043 T7 single construction	Aggregated	55 DSL	3525.044	0.011782661	0.013413663	0.082779182	0.879695324	0.008807014	932.205389	0.01719838	0.016454386	0.146529705
SANTA CLARA	2043 T7 single construction	Aggregated	60 DSL	12938.49	0.013794794	0.015704323	0.092491531	1.073309631	0.009409318	995.9580683	0.021557898	0.020625313	0.156550739
SANTA CLARA	2043 T7 single construction	Aggregated	65 DSL	6343.446	0.016783514	0.019106753	0.116016535	1.449302541	0.010368792	1097.51649	0.026566859	0.025417588	0.172514308
SANTA CLARA	2043 T7 single construction	Aggregated	70 DSL	1416.299	0.020599892	0.023451409	0.151953052	1.456047001	0.010368792	1097.51649	0.026566859	0.025417588	0.172514308
SANTA CLARA	2043 T7 single construction	Aggregated	75 DSL	1123.723	0.025356851	0.028866845	0.201185509	1.458460161	0.010368792	1097.51649	0.026566859	0.025417588	0.172514308
SANTA CLARA	2043 T7 single construction	Aggregated	80 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T7 single construction	Aggregated	85 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T7 single construction	Aggregated	90 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T7 SWCV	Aggregated	5 NG	55.55178	0.157685254	0.179512659	0.455921621	23.02354502	0.075744201	8017.376831	0.018891541	0.018074301	1.260219989
SANTA CLARA	2043 T7 SWCV	Aggregated	5 NG	455.8664	0.253466296	12.95946789	45.05143205	1.607470484	0	4300.839665	0.005534626	0.005295401	0.876754301
SANTA CLARA	2043 T7 SWCV	Aggregated	10 DSL	145.2394	0.115330364	0.131294841	0.332034964	19.53716345	0.067708649	7166.829234	0.016836312	0.01610798	1.126525752
SANTA CLARA	2043 T7 SWCV	Aggregated	10 NG	1191.857	0.202288814	10.47546556	36.48690973	1.310244608	0	3814.171267	0.004945029	0.00473111	0.777543764
SANTA CLARA	2043 T7 SWCV	Aggregated	15 DSL	155.4205	0.073996194	0.084239035	0.213287312	14.52128089	0.056108597	5938.986239	0.013685176	0.013093161	0.933525932
SANTA CLARA	2043 T7 SWCV	Aggregated	15 NG	179.6643	0.134680959	7.32470621	25.69605592	0.924908586	0	3199.975452	0.00416379	0.003983666	0.652335929
SANTA CLARA	2043 T7 SWCV	Aggregated	20 DSL	130.596	0.051796953	0.058966888	0.149733462	11.53796926	0.047597899	5038.145378	0.011449131	0.010953847	0.791926293
SANTA CLARA	2043 T7 SWCV	Aggregated	20 NG	1071.691	0.092136505	5.262864046	18.58849545	0.677882962	0	2794.802808	0.003641588	0.003484055	0.569738835
SANTA CLARA	2043 T7 SWCV	Aggregated	25 DSL	158.5679	0.038840534	0.044216991	0.11180567	10.41766027	0.042831872	4533.6706	0.010332881	0.009885885	0.712629883
SANTA CLARA	2043 T7 SWCV	Aggregated	25 NG	1301.232	0.067580078	3.857256024	13.62294673	0.523620783	0	2578.690528	0.003291588	0.003149195	0.525682933
SANTA CLARA	2043 T7 SWCV	Aggregated	30 DSL	164.9703	0.029643615	0.033746999	0.084447814	9.750369332	0.039800709	4212.82793	0.009804229	0.009380102	0.662197883
SANTA CLARA	2043 T7 SWCV	Aggregated	30 NG	1353.771	0.050425408	2.846759714	10.03980158	0.431902097	0	2441.092134	0.003026527	0.002895601	0.497632601
SANTA CLARA	2043 T7 SWCV	Aggregated	35 DSL	179.6643	0.022825748	0.025985377	0.063729067	9.217252839	0.037380786	3956.683768	0.009675698	0.009257132	0.621935588
SANTA CLARA	2043 T7 SWCV	Aggregated	35 NG	1474.352	0.037712553	2.10161339	7.399266481	0.371159272	0	2332.134308	0.002813873	0.002692147	0.475420835
SANTA CLARA	2043 T7 SWCV	Aggregated	40 DSL	196.9261	0.017921429	0.020402183	0.048308768	8.803317423	0.035474237	3754.879254	0.00993171	0.009502068	0.590214729
SANTA CLARA	2043 T7 SWCV	Aggregated	40 NG	1616.006	0.028335531	1.552435957	5.453392217	0.328457388	0	2242.692099	0.002642005	0.002527713	0.457187456
SANTA CLARA	2043 T7 SWCV	Aggregated	45 DSL	217.9033	0.014587616	0.016606891	0.037198944	8.504352128	0.034023691	3601.341695	0.010562565	0.010105633	0.566080763

SANTA CLARA	2043 T7 SWCV	Aggregated	45 NG	1788.148	0.021479313	1.148098539	4.019458055	0.29750293	0	2167.330217	0.002503686	0.002395378	0.441824443
SANTA CLARA	2043 T7 SWCV	Aggregated	50 DSL	201.6459	0.012571511	0.014311708	0.029671534	8.312882176	0.032992907	3492.235231	0.011561817	0.011061658	0.548930746
SANTA CLARA	2043 T7 SWCV	Aggregated	50 NG	1654.737	0.016543282	0.850922833	2.962811959	0.274651762	0	2102.568255	0.002394106	0.002290538	0.428622293
SANTA CLARA	2043 T7 SWCV	Aggregated	55 DSL	160.6229	0.011686682	0.013304555	0.025190005	8.223758672	0.032357676	3424.997295	0.012924957	0.012365829	0.538361879
SANTA CLARA	2043 T7 SWCV	Aggregated	55 NG	1318.096	0.013084827	0.633142638	2.184225065	0.257741999	0	2046.053183	0.002309902	0.002209977	0.417101326
SANTA CLARA	2043 T7 SWCV	Aggregated	60 DSL	232.287	0.012305105	0.014008425	0.024638301	8.230290463	0.032277258	3416.485211	0.014088509	0.013479046	0.537023898
SANTA CLARA	2043 T7 SWCV	Aggregated	60 NG	1906.183	0.011804111	0.547402614	1.875534144	0.251261685	0	2020.350003	0.002276526	0.002178045	0.411861565
SANTA CLARA	2043 T7 SWCV	Aggregated	65 DSL	44.41783	0.014109235	0.016066229	0.027050353	8.250372351	0.032539037	3444.194028	0.014856938	0.014214234	0.541379338
SANTA CLARA	2043 T7 SWCV	Aggregated	65 NG	364.4995	0.011804111	0.547402614	1.875534144	0.251251964	0	2020.350003	0.002276526	0.002178045	0.411861565
SANTA CLARA	2043 T7 SWCV	Aggregated	70 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T7 SWCV	Aggregated	70 NG	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T7 SWCV	Aggregated	75 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T7 SWCV	Aggregated	75 NG	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T7 SWCV	Aggregated	80 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T7 SWCV	Aggregated	80 NG	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T7 SWCV	Aggregated	85 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T7 SWCV	Aggregated	85 NG	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T7 SWCV	Aggregated	90 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T7 SWCV	Aggregated	90 NG	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T7 tractor	Aggregated	5 DSL	1611.816	0.12367671	0.14079652	2.111048897	13.72242808	0.022831126	2416.630469	0.011178902	0.010695308	0.379860656
SANTA CLARA	2043 T7 tractor	Aggregated	10 DSL	3442.275	0.07760827	0.088351108	1.297901126	10.33020373	0.018876487	1998.039529	0.00983077	0.009405495	0.314063999
SANTA CLARA	2043 T7 tractor	Aggregated	15 DSL	4389.019	0.043145892	0.049118314	0.703217491	7.224528045	0.014854215	1572.289844	0.007788351	0.007451431	0.247142068
SANTA CLARA	2043 T7 tractor	Aggregated	20 DSL	5014.951	0.02930866	0.033365678	0.469655984	5.709187512	0.012684333	1342.612088	0.006617729	0.006331449	0.211039923
SANTA CLARA	2043 T7 tractor	Aggregated	25 DSL	6100.172	0.023016523	0.026202559	0.358958435	4.443327724	0.011068646	1171.594706	0.006318902	0.006045549	0.184158372
SANTA CLARA	2043 T7 tractor	Aggregated	30 DSL	7704.425	0.018615773	0.021192641	0.275375225	3.307466425	0.00972319	1029.180796	0.006891871	0.006593732	0.161772889
SANTA CLARA	2043 T7 tractor	Aggregated	35 DSL	8986.257	0.015331248	0.017453459	0.207570824	2.39896238	0.008689292	919.7447004	0.008336635	0.007975996	0.144571059
SANTA CLARA	2043 T7 tractor	Aggregated	40 DSL	11254.26	0.013162947	0.014985013	0.155545231	1.716778	0.007965276	843.1090348	0.010653196	0.010192343	0.132524999
SANTA CLARA	2043 T7 tractor	Aggregated	45 DSL	13264.31	0.012111087	0.013787303	0.119298447	1.262089421	0.007555775	799.7641583	0.013841552	0.013242772	0.125711788
SANTA CLARA	2043 T7 tractor	Aggregated	50 DSL	20151.96	0.012175017	0.01386033	0.098830471	1.033673273	0.007455826	789.1847771	0.017901704	0.017127284	0.124048857
SANTA CLARA	2043 T7 tractor	Aggregated	55 DSL	45241.99	0.013355389	0.015204093	0.094141304	1.032553286	0.007666695	811.5047514	0.022833651	0.021845878	0.127557246
SANTA CLARA	2043 T7 tractor	Aggregated	60 DSL	142439.1	0.015651985	0.017818593	0.105230946	1.258178407	0.008187899	866.6732888	0.028637395	0.027398554	0.136228972
SANTA CLARA	2043 T7 tractor	Aggregated	65 DSL	98474.22	0.019064805	0.021703829	0.132099395	1.715823087	0.009023725	955.1438074	0.035312934	0.033785312	0.150135305
SANTA CLARA	2043 T7 tractor	Aggregated	70 DSL	29743.87	0.023549159	0.026808925	0.174325836	1.722001701	0.009023725	955.1438074	0.035312934	0.033785312	0.150135305
SANTA CLARA	2043 T7 tractor	Aggregated	75 DSL	1515.667	0.029138724	0.033172219	0.232175389	1.721598624	0.009023725	955.1438074	0.035312934	0.033785312	0.150135305
SANTA CLARA	2043 T7 tractor	Aggregated	80 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T7 tractor	Aggregated	85 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T7 tractor	Aggregated	90 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T7 tractor construction	Aggregated	5 DSL	5001.611	0.12862856	0.146433824	2.190147279	14.46942016	0.025629212	2712.802443	0.012039618	0.011518789	0.426414766
SANTA CLARA	2043 T7 tractor construction	Aggregated	10 DSL	3440.287	0.080764872	0.091944659	1.346658666	10.86894226	0.021190318	2242.95412	0.010587444	0.010129436	0.352561153
SANTA CLARA	2043 T7 tractor construction	Aggregated	15 DSL	730.8234	0.044909066	0.051125554	0.729704191	7.603428866	0.016675224	1765.040156	0.008387169	0.008024343	0.277439733
SANTA CLARA	2043 T7 tractor construction	Aggregated	20 DSL	728.0355	0.030492908	0.034713855	0.487353905	6.012045598	0.01424034	1507.312335	0.007125297	0.00681706	0.236928508
SANTA CLARA	2043 T7 tractor construction	Aggregated	25 DSL	981.9733	0.023942405	0.027256606	0.372486433	4.682938105	0.012427418	1315.41808	0.006802354	0.006508087	0.206765404
SANTA CLARA	2043 T7 tractor construction	Aggregated	30 DSL	1178.822	0.019362598	0.022042844	0.285760467	3.486889719	0.010918119	1155.661747	0.007416991	0.007096135	0.181653933
SANTA CLARA	2043 T7 tractor construction	Aggregated	35 DSL	1522.329	0.015944246	0.018151311	0.215409062	2.531056377	0.009758721	1032.941654	0.008968819	0.008580832	0.162364043
SANTA CLARA	2043 T7 tractor construction	Aggregated	40 DSL	1951.861	0.013686632	0.015581189	0.161430221	1.815277266	0.008949215	947.2570849	0.011457823	0.010962163	0.148895622
SANTA CLARA	2043 T7 tractor construction	Aggregated	45 DSL	2371.659	0.012589227	0.014331876	0.123822473	1.337359714	0.008489599	898.6076217	0.014883993	0.014240118	0.141248604
SANTA CLARA	2043 T7 tractor construction	Aggregated	50 DSL	2383.314	0.012651639	0.014402928	0.102584733	1.09807244	0.00837987	886.992998	0.019247322	0.018414692	0.139422947
SANTA CLARA	2043 T7 tractor construction	Aggregated	55 DSL	2907.851	0.013873583	0.015794018	0.097716202	1.099470342	0.008620026	912.4130382	0.024547807	0.02348588	0.143418624
SANTA CLARA	2043 T7 tractor construction	Aggregated	60 DSL	10673.11	0.01625522	0.018505331	0.109216712	1.342378379	0.009210077	974.8688259	0.030784557	0.029452831	0.153235804
SANTA CLARA	2043 T7 tractor construction	Aggregated	65 DSL	5232.785	0.019795465	0.022535663	0.137083603	1.819923709	0.010150006	1074.358478	0.037957248	0.036315235	0.168874191
SANTA CLARA	2043 T7 tractor construction	Aggregated	70 DSL	1168.322	0.024404374	0.027782522	0.180482896	1.828392887	0.010150006	1074.358478	0.037957248	0.036315235	0.168874191
SANTA CLARA	2043 T7 tractor construction	Aggregated	75 DSL	926.9722	0.03014919	0.034322558	0.239939238	1.83142315	0.010150006	1074.358478	0.037957248	0.036315235	0.168874191
SANTA CLARA	2043 T7 tractor construction	Aggregated	80 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T7 tractor construction	Aggregated	85 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T7 tractor construction	Aggregated	90 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T7 utility	Aggregated	5 DSL	20.56641	0.089860674	0.102299537	1.533840568	8.023885266	0.026588205	2814.309954	0.005035327	0.004817501	0.442370333
SANTA CLARA	2043 T7 utility	Aggregated	10 DSL	80.8472	0.056388397	0.064193897	0.943025717	6.087491037	0.021982792	2326.835902	0.004428086	0.004236529	0.365746201
SANTA CLARA	2043 T7 utility	Aggregated	15 DSL	79.64821	0.03134882	0.035688245	0.510941986	4.288607357	0.017298617	1831.025064	0.003508117	0.003356357	0.287811642
SANTA CLARA	2043 T7 utility	Aggregated	20 DSL	62.35328	0.021295003	0.02424274	0.341241457	3.405155471	0.014772747	1563.666625	0.002980832	0.002851883	0.245786618

SANTA CLARA	2043 T7 utility	Aggregated	25 DSL	76.10924	0.01672328	0.019038181	0.260811112	2.657977519	0.012891941	1364.586983	0.002846231	0.002723104	0.214494071
SANTA CLARA	2043 T7 utility	Aggregated	30 DSL	100.3479	0.013525796	0.015398089	0.200081435	1.985835918	0.011326046	1198.840062	0.003104314	0.002970023	0.188440963
SANTA CLARA	2043 T7 utility	Aggregated	35 DSL	124.1026	0.011139335	0.012681285	0.150816284	1.451661041	0.010123181	1071.519034	0.003755081	0.003592638	0.16842787
SANTA CLARA	2043 T7 utility	Aggregated	40 DSL	170.767	0.009563897	0.010887768	0.113015661	1.055370027	0.009283343	982.6238984	0.004798533	0.00459095	0.154454793
SANTA CLARA	2043 T7 utility	Aggregated	45 DSL	171.2215	0.008799481	0.01001754	0.086679564	0.795956395	0.008806535	932.1546571	0.006234668	0.005964959	0.146521731
SANTA CLARA	2043 T7 utility	Aggregated	50 DSL	164.0134	0.008846089	0.010070599	0.071807994	0.674565775	0.008692755	920.1113085	0.008063487	0.007714664	0.144628684
SANTA CLARA	2043 T7 utility	Aggregated	55 DSL	256.1766	0.009703721	0.011046947	0.068400951	0.691185921	0.008942005	946.4938541	0.010284991	0.009840067	0.148775653
SANTA CLARA	2043 T7 utility	Aggregated	60 DSL	192.6716	0.011372375	0.012946583	0.076458434	0.846118699	0.009554283	1011.302294	0.012899178	0.012341165	0.158962637
SANTA CLARA	2043 T7 utility	Aggregated	65 DSL	1.869334	0.013852052	0.015769507	0.095980444	1.141303492	0.010529589	1114.536626	0.01590605	0.015217961	0.175189637
SANTA CLARA	2043 T7 utility	Aggregated	70 DSL	0.003285	0.016777669	0.019100099	0.123529211	1.1358497	0.010529589	1114.536626	0.01590605	0.015217961	0.175189637
SANTA CLARA	2043 T7 utility	Aggregated	75 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T7 utility	Aggregated	80 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T7 utility	Aggregated	85 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T7 utility	Aggregated	90 DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043 T7IS	Aggregated	5 GAS	4.820527	2.079069577	3.033773446	54.08135218	5.510209916	0.035893005	3627.090959	0.007799141	0.007171023	0.233274509
SANTA CLARA	2043 T7IS	Aggregated	10 GAS	18.81811	1.313385952	1.916489698	49.44206173	4.750053002	0.029208157	2951.567907	0.004907201	0.00451199	0.201093298
SANTA CLARA	2043 T7IS	Aggregated	15 GAS	20.83446	0.872833663	1.273636832	45.20105	4.186357808	0.023952197	2420.438098	0.003257283	0.002994951	0.177229285
SANTA CLARA	2043 T7IS	Aggregated	20 GAS	38.53024	0.609290628	0.889075454	41.26274999	3.780820139	0.019962496	2017.267361	0.002280934	0.002097235	0.160060864
SANTA CLARA	2043 T7IS	Aggregated	25 GAS	51.61983	0.450563022	0.657460504	37.92063442	3.437406838	0.017101247	1728.130006	0.001685018	0.001549312	0.145522477
SANTA CLARA	2043 T7IS	Aggregated	30 GAS	91.53306	0.351794835	0.513338198	34.97208264	3.173356874	0.015193069	1535.303093	0.001313197	0.001207436	0.134343932
SANTA CLARA	2043 T7IS	Aggregated	35 GAS	169.1733	0.289502547	0.422441438	32.31106784	2.982102882	0.014080485	1422.873351	0.001079669	0.000992715	0.126247202
SANTA CLARA	2043 T7IS	Aggregated	40 GAS	129.5673	0.251133737	0.366453759	29.910254	2.852163564	0.013607723	1375.099378	0.000936453	0.000861034	0.120746227
SANTA CLARA	2043 T7IS	Aggregated	45 GAS	154.8827	0.229003929	0.334161995	27.66747303	2.792097694	0.013618042	1376.142149	0.000856873	0.000787863	0.118203341
SANTA CLARA	2043 T7IS	Aggregated	50 GAS	129.7649	0.221047776	0.322552396	25.74584242	2.758024363	0.013974584	1412.171763	0.000827145	0.000760529	0.116760848
SANTA CLARA	2043 T7IS	Aggregated	55 GAS	200.9858	0.225911849	0.32965004	24.10654628	2.747527412	0.014506393	1465.912521	0.000842329	0.00077449	0.11631646
SANTA CLARA	2043 T7IS	Aggregated	60 GAS	43.05391	0.241198257	0.35195593	22.42006273	2.836363163	0.015053387	1521.187822	0.000904932	0.000832051	0.120077317
SANTA CLARA	2043 T7IS	Aggregated	65 GAS	23.63634	0.273198254	0.398650251	21.0211551	2.942116952	0.015481757	1564.475872	0.001025617	0.000943017	0.1245544
SANTA CLARA	2043 UBUS	Aggregated	5 GAS	15.67131	0.073658009	0.107481594	0.491049997	0.41783958	0.030558698	3088.043963	0.007801816	0.007173482	0.036229203
SANTA CLARA	2043 UBUS	Aggregated	5 DSL	619.3168	0.002466441	0.176174337	0.381350852	2.372894013	0.024809777	2624.374547	0.006892935	0.006594749	0.412515132
SANTA CLARA	2043 UBUS	Aggregated	5 NG	250.2405	0.138838502	9.917035827	64.17302039	0.755516196	0	2814.84951	0.006388026	0.006111683	0.573825487
SANTA CLARA	2043 UBUS	Aggregated	10 GAS	52.10524	0.046349519	0.067633109	0.447238906	0.362996214	0.024807139	2506.832448	0.004908884	0.004513537	0.031473953
SANTA CLARA	2043 UBUS	Aggregated	10 DSL	2059.154	0.001890329	0.135023495	0.26626691	1.659277445	0.020729193	2192.73092	0.00630128	0.00602869	0.344666765
SANTA CLARA	2043 UBUS	Aggregated	10 NG	832.0197	0.115469576	8.247826826	57.00147289	0.62402197	0	2419.954681	0.005235851	0.00500935	0.493323592
SANTA CLARA	2043 UBUS	Aggregated	15 GAS	88.39861	0.030778826	0.04491239	0.408572152	0.320245904	0.020287275	2050.087262	0.0032584	0.002995978	0.027767244
SANTA CLARA	2043 UBUS	Aggregated	15 DSL	3493.437	0.001352019	0.096572751	1.0572785	0.016529626	0.016529626	1748.501334	0.005440475	0.005205123	0.27484006
SANTA CLARA	2043 UBUS	Aggregated	15 NG	1411.555	0.10179963	7.271402154	52.80638653	0.547102778	0	2188.956014	0.004223831	0.00404111	0.446233003
SANTA CLARA	2043 UBUS	Aggregated	20 GAS	773.5282	0.021538559	0.031429015	0.373861574	0.287713513	0.01686357	1704.112043	0.002281717	0.002097954	0.024946491
SANTA CLARA	2043 UBUS	Aggregated	20 DSL	30569.16	0.001084197	0.077442639	0.125692472	0.785716011	0.014239728	1506.276335	0.005009674	0.004792958	0.236765664
SANTA CLARA	2043 UBUS	Aggregated	20 NG	12351.75	0.09210065	6.578617824	49.82992539	0.492527743	0	2025.059852	0.003351967	0.003206963	0.412821698
SANTA CLARA	2043 UBUS	Aggregated	25 GAS	9.958221	0.016036361	0.023400221	0.34584381	0.258059491	0.014414197	1456.595906	0.001685596	0.001549844	0.022375309
SANTA CLARA	2043 UBUS	Aggregated	25 DSL	393.5403	0.000919388	0.065670537	0.100603492	0.598436223	0.012802474	1354.243776	0.005008878	0.004792196	0.212868263
SANTA CLARA	2043 UBUS	Aggregated	25 NG	159.0135	0.084577536	6.041252551	47.52120276	0.450196057	0	1897.932112	0.00262026	0.002506908	0.386905877
SANTA CLARA	2043 UBUS	Aggregated	30 GAS	9.88104	0.012489861	0.018225176	0.318189497	0.239395205	0.012790166	1292.482855	0.001313647	0.00120785	0.020757003
SANTA CLARA	2043 UBUS	Aggregated	30 DSL	390.4902	0.000805971	0.057569363	0.084217553	0.439272009	0.011673072	1234.775843	0.005438086	0.005202837	0.194089567
SANTA CLARA	2043 UBUS	Aggregated	30 NG	157.7811	0.078430704	5.602193153	45.63483903	0.415608552	0	1794.061186	0.002028708	0.001940947	0.365731109
SANTA CLARA	2043 UBUS	Aggregated	35 GAS	13.73342	0.01023733	0.014938289	0.29284727	0.226715893	0.01185619	1198.101967	0.001080039	0.000993056	0.01965763
SANTA CLARA	2043 UBUS	Aggregated	35 DSL	542.733	0.000722302	0.051593026	0.07263176	0.313290704	0.010786597	1141.004642	0.006297299	0.00602458	0.17935004
SANTA CLARA	2043 UBUS	Aggregated	35 NG	219.2962	0.073233632	5.230973721	44.03994121	0.386365232	0	1706.239569	0.001577313	0.001509079	0.347828098
SANTA CLARA	2043 UBUS	Aggregated	40 GAS	19.09219	0.008869018	0.012941651	0.270748211	0.217453812	0.011476981	1159.781789	0.000936774	0.00086133	0.018854552
SANTA CLARA	2043 UBUS	Aggregated	40 DSL	754.507	0.000657573	0.046969488	0.063983327	0.220492309	0.0101434049	1072.930174	0.007586516	0.007258327	0.168649682
SANTA CLARA	2043 UBUS	Aggregated	40 NG	304.8654	0.068731724	4.909408823	42.65837789	0.361033517	0	1630.165024	0.001266074	0.001211304	0.332319804
SANTA CLARA	2043 UBUS	Aggregated	45 GAS	16.04928	0.008125841	0.011857208	0.251588869	0.21064844	0.011517235	1163.849563	0.000857166	0.000788133	0.018264486
SANTA CLARA	2043 UBUS	Aggregated	45 DSL	634.2538	0.000605731	0.043266505	0.057267577	0.160876823	0.009742427	1030.55244	0.009305737	0.008903175	0.161988492
SANTA CLARA	2043 UBUS	Aggregated	45 NG	256.276	0.064760759	4.625768481	41.43975267	0.33868936	0	1563.062519	0.00109499	0.001047622	0.31864052
SANTA CLARA	2043 UBUS	Aggregated	50 GAS	14.20907	0.007800882	0.011383029	0.232889359	0.210521636	0.011855146	1197.996422	0.000827428	0.00076079	0.018253491
SANTA CLARA	2043 UBUS	Aggregated	50 DSL	561.5303	0.000563102	0.040221584	0.051893555	0.134444247	0.009584731	1013.871439	0.011454963	0.010959427	0.159366471
SANTA CLARA	2043 UBUS	Aggregated	50 NG	226.8914	0.06120861	4.372043549	40.34965526	0.318701831	0	1503.037284	0.001064063	0.001018032	0.306403983
SANTA CLARA	2043 UBUS	Aggregated	55 GAS	20.87478	0.007895511	0.011521112	0.216030302	0.0154050028	0.012341919	1247.186284	0.000842617	0.000774756	0.018559424
SANTA CLARA	2043 UBUS	Aggregated	55 DSL	824.9531	0.000527314	0.037665294	0.047490323	0.14119458	0.009669962	1022.887172	0.014034194	0.013427081	0.160783619

SANTA CLARA	2043	UBUS	Aggregated	55	NG	333.3298	0.0579953	4.14252143	39.36354221	0.300620911	0	1448.737853	0.001173292	0.001122536	0.295334689
SANTA CLARA	2043	UBUS	Aggregated	60	GAS	28.48603	0.008450471	0.012330908	0.201393013	0.219721421	0.012842276	1297.748769	0.000905242	0.000832336	0.019051168
SANTA CLARA	2043	UBUS	Aggregated	60	DSL	1125.743	0.000496761	0.035482961	0.043812966	0.181127823	0.00999812	1057.599638	0.017043429	0.016306138	0.166239935
SANTA CLARA	2043	UBUS	Aggregated	60	NG	454.8667	0.055061778	3.932984151	38.46329153	0.284114325	0	1399.166357	0.001422677	0.001361133	0.285229215
SANTA CLARA	2043	UBUS	Aggregated	65	GAS	4.124294	0.009646975	0.014076843	0.190260687	0.224344589	0.013234485	1337.382647	0.001025969	0.00094334	0.019452024
SANTA CLARA	2043	UBUS	Aggregated	65	DSL	162.9885	0.000470315	0.033593951	0.040693082	0.254243975	0.010569204	1118.008837	0.020482668	0.019596597	0.17573542
SANTA CLARA	2043	UBUS	Aggregated	65	NG	65.85699	0.0523632	3.74022854	37.63514118	0.268929738	0	1353.565001	0.001812218	0.001733822	0.27593308
SANTA CLARA	2043	UBUS	Aggregated	70	GAS	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043	UBUS	Aggregated	70	DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043	UBUS	Aggregated	70	NG	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043	UBUS	Aggregated	75	GAS	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043	UBUS	Aggregated	75	DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043	UBUS	Aggregated	75	NG	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043	UBUS	Aggregated	80	GAS	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043	UBUS	Aggregated	80	DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043	UBUS	Aggregated	80	NG	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043	UBUS	Aggregated	85	GAS	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043	UBUS	Aggregated	85	DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043	UBUS	Aggregated	85	NG	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043	UBUS	Aggregated	90	GAS	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043	UBUS	Aggregated	90	DSL	0	0	0	0	0	0	0	0	0	0
SANTA CLARA	2043	UBUS	Aggregated	90	NG	0	0	0	0	0	0	0	0	0	0

*VMT Cross-Check*

Web tool: 54617597 \*doesn't include PTO truck (deleted VMT from line 246). PTO isn't included in desktop EMFAC2017 model for unknown reason  
 Desktop Model: 54617597  
 Difference: 0

## Peak Hour Traffic Volumes

Scenario	Intersection	Node	NBL	NBT	NBR	SBL	SBT	SBR	ELB	EBT	EBR	WBL	WBT	WBR
2017 AM NP	Capitol/Capitol	1	13	2856	572	290	1307	27	68	94	18	320	55	458
2017 AM NP	Capitol/Story	2	288	2491	333	522	1179	113	208	665	211	310	828	730
2017 AM NP	Capitol/Ocala	3	395	2386	124	333	1049	147	85	331	174	147	478	415
2017 AM NP	Capitol/Cunningham	4	15	2619	212	67	1303	30	4	6	6	168	2	315
2017 AM PP	Capitol/Capitol	1	13	2821	565	288	1297	27	67	93	18	321	55	460
2017 AM PP	Capitol/Story	2	284	2458	329	521	1177	113	208	664	211	309	825	727
2017 AM PP	Capitol/Ocala	3	388	2345	122	336	1059	148	84	328	173	146	474	412
2017 AM PP	Capitol/Cunningham	4	15	2575	208	68	1317	30	4	6	6	167	2	313
2016 PM NP	Capitol/Capitol	1	31	1707	292	356	2784	48	40	108	68	584	63	292
2016 PM NP	Capitol/Story	2	131	1175	201	611	2425	92	167	1004	589	301	529	623
2017 PM NP	Capitol/Ocala	3	222	1188	236	584	2029	143	87	257	242	180	303	287
2017 PM NP	Capitol/Cunningham	4	14	1508	209	52	2472	26	27	7	30	81	2	68
2016 PM PP	Capitol/Capitol	1	31	1695	290	351	2745	47	40	107	67	565	61	282
2016 PM PP	Capitol/Story	2	130	1166	199	594	2357	89	163	982	576	292	513	604
2017 PM PP	Capitol/Ocala	3	220	1179	234	539	1872	132	83	244	230	171	288	272
2017 PM PP	Capitol/Cunningham	4	14	1498	208	49	2321	24	26	7	29	78	2	65
2023 AM NP	Capitol/Capitol	1	14	3117	624	306	1379	28	80	111	21	281	48	402
2023 AM NP	Capitol/Story	2	315	2724	364	591	1336	128	187	599	190	292	779	687
2023 AM NP	Capitol/Ocala	3	439	2654	138	368	1158	162	89	345	182	161	523	454
2023 AM NP	Capitol/Cunningham	4	16	2853	231	78	1507	35	6	8	8	233	3	437
2023 AM PP	Capitol/Capitol	1	14	3086	618	306	1378	28	80	110	21	284	49	406
2023 AM PP	Capitol/Story	2	297	2568	343	589	1329	127	191	610	193	300	803	708
2023 AM PP	Capitol/Ocala	3	416	2515	131	360	1134	159	89	345	182	150	489	424
2023 AM PP	Capitol/Cunningham	4	15	2703	219	76	1480	34	5	8	8	223	3	419
2023 PM NP	Capitol/Capitol	1	34	1859	318	362	2834	49	37	100	63	421	45	211
2023 PM NP	Capitol/Story	2	150	1343	230	654	2594	98	165	994	583	285	501	589
2023 PM NP	Capitol/Ocala	3	265	1416	281	600	2084	147	95	280	263	232	390	369
2023 PM NP	Capitol/Cunningham	4	16	1735	240	55	2631	28	32	8	36	97	2	82
2023 PM PP	Capitol/Capitol	1	33	1831	313	359	2811	48	37	99	62	391	42	196
2023 PM PP	Capitol/Story	2	147	1315	225	639	2537	96	163	979	574	285	501	590
2023 PM PP	Capitol/Ocala	3	259	1387	275	568	1972	139	96	284	267	228	384	364
2023 PM PP	Capitol/Cunningham	4	16	1699	235	53	2505	26	31	8	34	93	2	78
2043 AM NP	Capitol/Capitol	1	15	3251	651	317	1428	30	84	116	22	399	69	571
2043 AM NP	Capitol/Story	2	339	2933	392	684	1545	148	229	732	232	290	775	684
2043 AM NP	Capitol/Ocala	3	482	2910	151	468	1474	207	113	441	232	180	585	508
2043 AM NP	Capitol/Cunningham	4	18	3128	253	99	1919	44	6	10	10	268	3	503
2043 AM PP	Capitol/Capitol	1	15	3246	650	314	1414	29	83	115	22	399	69	572
2043 AM PP	Capitol/Story	2	308	2662	356	677	1528	146	237	759	241	314	838	738
2043 AM PP	Capitol/Ocala	3	446	2691	140	459	1446	203	113	441	232	184	597	518
2043 AM PP	Capitol/Cunningham	4	17	2893	234	97	1886	43	6	9	9	254	3	476
2043 PM NP	Capitol/Capitol	1	50	2771	474	368	2878	50	41	111	70	849	92	424
2043 PM NP	Capitol/Story	2	216	1934	331	776	3079	117	190	1142	670	282	496	584
2043 PM NP	Capitol/Ocala	3	379	2030	403	690	2397	169	111	329	310	240	404	383
2043 PM NP	Capitol/Cunningham	4	23	2490	345	64	3048	32	40	10	44	119	3	100
2043 PM PP	Capitol/Capitol	1	50	2728	467	366	2865	49	41	110	70	816	88	408
2043 PM PP	Capitol/Story	2	212	1901	325	762	3025	115	178	1073	629	287	504	593
2043 PM PP	Capitol/Ocala	3	373	1995	396	620	2153	152	191	564	531	240	404	383
2043 PM PP	Capitol/Cunningham	4	23	2447	339	58	2780	29	37	10	41	111	3	93

**NBL = Northbound Left Turn**  
**NBT = Northbound Through**  
**NBR = Northbound Right Turn**  
  
**SBL = Southbound Left Turn**  
**SBT = Southbound Through**  
**SBR = Southbound Right Turn**  
  
**ELB = Eastbound Left Turn**  
**EBT = Eastbound Through**  
**EBR = Eastbound Right Turn**  
  
**WBL = Westbound Left Turn**  
**WBT = Westbound Through**  
**WBR = Westbound Right Turn**



## **Peak Hour Traffic to Average Daily Traffic Volume Conversion**

AM Peak Hour Segment Volumes		2017 No Project	2017 With Project	2023 No Project	2023 With Project	2043 No Project	2043 With Project
Capitol Avenue	North of Capitol Avenue	5,006	4,960	5,313	5,284	5,680	5,658
	Between Capitol Expressway and Story Road	5,243	5,204	5,654	5,512	6,223	5,989
	Between Story Road and Ocala Avenue	4,812	4,767	5,221	5,031	5,732	5,430
	Between Ocala Avenue and Cunningham Avenue	4,338	4,306	4,915	4,717	5,700	5,401
	South of Cunningham Avenue	4,323	4,288	4,849	4,649	5,596	5,293
Cross Streets	Excalibur - West of Capitol Expressway	275	273	304	303	335	334
	Capitol Avenue - East of Capitol Expressway	1,789	1,782	1,774	1,773	2,122	2,119
	Story Road - West of Capitol Expressway	2,313	2,304	2,199	2,220	2,456	2,529
	Story Road - East of Capitol Expressway	3,388	3,375	3,313	3,352	3,558	3,681
	Ocala Avenue - West of Capitol Expressway	1,610	1,596	1,740	1,680	2,060	2,032
	Ocala Avenue - East of Capitol Expressway	1,828	1,818	1,989	1,900	2,333	2,339
	Cunningham Avenue - West of Capitol Expressway	63	63	76	73	91	87
	Cunningham Avenue - East of Capitol Expressway	770	763	989	947	1,136	1,073

PM Peak Hour Segment Volumes		2017 No Project	2017 With Project	2023 No Project	2023 With Project	2043 No Project	2043 With Project
Capitol Avenue	North of Capitol Avenue	5,227	5,160	5,352	5,282	6,532	6,458
	Between Capitol Expressway and Story Road	5,466	5,393	5,529	5,442	7,092	6,995
	Between Story Road and Ocala Avenue	4,822	4,720	5,184	5,083	6,512	6,380
	Between Ocala Avenue and Cunningham Avenue	4,153	3,983	4,563	4,392	5,774	5,688
	South of Cunningham Avenue	4,314	4,146	4,755	4,582	6,069	5,742
Cross Streets	Excalibur - West of Capitol Expressway	358	353	328	322	414	408
	Capitol Avenue - East of Capitol Expressway	1,695	1,656	1,457	1,401	2,318	2,255
	Story Road - West of Capitol Expressway	2,512	2,454	2,490	2,460	2,830	2,711
	Story Road - East of Capitol Expressway	3,269	3,184	3,252	3,220	3,611	3,544
	Ocala Avenue - West of Capitol Expressway	1,254	1,196	1,439	1,430	1,703	2,214
	Ocala Avenue - East of Capitol Expressway	1,847	1,748	2,152	2,104	2,449	2,606
	Cunningham Avenue - West of Capitol Expressway	106	102	123	118	152	143
	Cunningham Avenue - East of Capitol Expressway	419	408	485	470	642	615

Daily Segment Volumes (PM Peak Hour * 10)		2017 No Project	2017 With Project	2023 No Project	2023 With Project	2043 No Project	2043 With Project
Capitol Avenue	North of Capitol Avenue	52,270	51,601	53,522	52,820	65,324	64,577
	Between Capitol Expressway and Story Road	54,660	53,927	55,291	54,418	70,923	69,948
	Between Story Road and Ocala Avenue	48,220	47,197	51,839	50,827	65,117	63,796
	Between Ocala Avenue and Cunningham Avenue	41,530	39,828	45,626	43,917	57,737	56,883
	South of Cunningham Avenue	43,140	41,464	47,553	45,822	60,693	57,419
Cross Streets	Excalibur - West of Capitol Expressway	3,580	3,526	3,278	3,217	4,141	4,078
	Capitol Avenue - East of Capitol Expressway	16,950	16,557	14,573	14,006	23,183	22,555
	Story Road - West of Capitol Expressway	25,120	24,540	24,904	24,603	28,303	27,110
	Story Road - East of Capitol Expressway	32,690	31,835	32,516	32,201	36,108	35,440
	Ocala Avenue - West of Capitol Expressway	12,540	11,959	14,388	14,301	17,028	22,137
	Ocala Avenue - East of Capitol Expressway	18,470	17,477	21,516	21,038	24,489	26,063
	Cunningham Avenue - West of Capitol Expressway	1,060	1,017	1,229	1,180	1,524	1,426
	Cunningham Avenue - East of Capitol Expressway	4,190	4,082	4,852	4,698	6,419	6,147
	<b>Maximum</b>	<b>54,660</b>	<b>53,927</b>	<b>55,291</b>	<b>54,418</b>	<b>70,923</b>	<b>69,948</b>

Daily Segment Volumes - Project Effect		2017 Project Effect	2023 Project Effect	2043 Project Effect
Capitol Avenue	North of Capitol Avenue	-669	-703	-747
	Between Capitol Expressway and Story Road	-733	-873	-975
	Between Story Road and Ocala Avenue	-1,023	-1,012	-1,321
	Between Ocala Avenue and Cunningham Avenue	-1,702	-1,710	-854
	South of Cunningham Avenue	-1,676	-1,731	-3,274
Cross Streets	Excalibur - West of Capitol Expressway	-54	-61	-63
	Capitol Avenue - East of Capitol Expressway	-393	-568	-628
	Story Road - West of Capitol Expressway	-580	-300	-1,193
	Story Road - East of Capitol Expressway	-855	-315	-668
	Ocala Avenue - West of Capitol Expressway	-581	-87	5,109
	Ocala Avenue - East of Capitol Expressway	-993	-478	1,574
	Cunningham Avenue - West of Capitol Expressway	-43	-49	-97
Cunningham Avenue - East of Capitol Expressway	-108	-155	-271	

# **5 Mile per Hour Running Exhaust Emission Factors for Carbon Monoxide Hot Spot Modeling**

Year	CO Running Exhaust (grams/mile)
2017	3.79
2023	1.92
2043	1.56

**EMFAC2017 Input Details**

Santa Clara County

Calendar Years 2017, 2023, 2043

Season: Annual

Vehicle Categories: All

Model Year: Aggregated

Speed: 5 mph

Fuel: All

# **CO Hot Spot Modeling: CALROADS View Modeling Output Files**

Capitol and Story 2017

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: Eastridge to BART  
 RUN: CALINE4 RUN (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= 0.5 M/S                      ZO= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= 0.0 CM/S  
 CLAS= 7 (G)                      VS= 0.0 CM/S  
 MIXH= 1000. M                      AMB= 0.0 PPM  
 SIGTH= 15. DEGREES              TEMP= 5.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* *	LINK COORDINATES (M)				* *	TYPE	VPH	EF (G/MI)	H (M)	W (M)
		X1	Y1	X2	Y2						
A. EBA	*	-1000	-11	0	-11	*	AG	1083	3.8	0.0	27.9
B. EBD	*	0	-5	1000	-5	*	AG	1514	3.8	0.0	17.0
C. WBA	*	1000	11	0	11	*	AG	1861	3.8	0.0	27.9
D. WBD	*	0	5	-1000	5	*	AG	1222	3.8	0.0	17.0
E. SBA	*	-11	1000	-11	0	*	AG	1811	3.8	0.0	27.9
F. SBD	*	-5	0	-5	-1000	*	AG	1697	3.8	0.0	17.0
G. NBA	*	11	-1000	11	0	*	AG	3071	3.8	0.0	27.9
H. NBD	*	5	0	5	1000	*	AG	3393	3.8	0.0	17.0

III. RECEPTOR LOCATIONS

RECEPTOR	* *	COORDINATES (M)		
		X	Y	Z
1. R_001	*	-25	14	1.8
2. R_002	*	14	25	1.8
3. R_003	*	-14	-25	1.8
4. R_004	*	25	-14	1.8

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 2

JOB: Eastridge to BART  
 RUN: CALINE4 RUN (WORST CASE ANGLE)  
 Page 1

Capitol and Story 2017  
 POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* * BRG * (DEG) *	* PRED * CONC * (PPM) *	CONC/LINK (PPM)									
			A	B	C	D	E	F	G	H		
1. R_001	* 97.	* 1.8 *	0.0	0.4	0.5	0.2	0.3	0.0	0.0	0.0	0.3	
2. R_002	* 187.	* 2.3 *	0.0	0.2	0.3	0.0	0.0	0.4	0.8	0.6		
3. R_003	* 9.	* 1.8 *	0.2	0.0	0.0	0.1	0.5	0.3	0.0	0.7		
4. R_004	* 348.	* 1.8 *	0.0	0.3	0.2	0.0	0.3	0.0	0.2	0.7		

1  
EXIT

Capitol and Story 2023\_

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: Eastridge to BART  
 RUN: CALINE4 RUN (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= 0.5 M/S                      ZO= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= 0.0 CM/S  
 CLAS= 7 (G)                      VS= 0.0 CM/S  
 MIXH= 1000. M                      AMB= 0.0 PPM  
 SIGTH= 15. DEGREES              TEMP= 5.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	* Y1	* X2	* Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. EBA	-1000	-11	0	-11	AG	994	1.9	0.0	27.9
B. EBD	0	-5	1000	-5	AG	1542	3.8	0.0	17.0
C. WBA	1000	11	0	11	AG	1811	3.8	0.0	27.9
D. WBD	0	5	-1000	5	AG	1227	3.8	0.0	17.0
E. SBA	-11	1000	-11	0	AG	2045	3.8	0.0	27.9
F. SBD	-5	0	-5	-1000	AG	1822	3.8	0.0	17.0
G. NBA	11	-1000	11	0	AG	3208	3.8	0.0	27.9
H. NBD	5	0	5	1000	AG	3467	3.8	0.0	17.0

III. RECEPTOR LOCATIONS

RECEPTOR	* X	* Y	* Z
1. R_001	-25	14	1.8
2. R_002	14	25	1.8
3. R_003	-14	-25	1.8
4. R_004	25	-14	1.8

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 2

JOB: Eastridge to BART  
 RUN: CALINE4 RUN (WORST CASE ANGLE)  
 Page 1



Capitol and Story 2023\_  
 POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* * BRG * (DEG) *	* PRED * CONC * (PPM) *	CONC/LINK (PPM)									
			A	B	C	D	E	F	G	H		
1. R_001	* 97.	* 1.8 *	0.0	0.4	0.5	0.2	0.4	0.0	0.0	0.0	0.3	
2. R_002	* 187.	* 2.4 *	0.0	0.2	0.3	0.0	0.0	0.4	0.8	0.6		
3. R_003	* 8.	* 1.8 *	0.1	0.0	0.0	0.1	0.5	0.3	0.0	0.7		
4. R_004	* 347.	* 1.9 *	0.0	0.4	0.2	0.0	0.4	0.0	0.2	0.7		

1  
EXIT

Capitol and Story 2043\_

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: Eastridge to BART  
 RUN: CALINE4 RUN (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= 0.5 M/S                      ZO= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= 0.0 CM/S  
 CLAS= 7 (G)                      VS= 0.0 CM/S  
 MIXH= 1000. M                  AMB= 0.0 PPM  
 SIGTH= 15. DEGREES            TEMP= 5.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* *	LINK COORDINATES (M)				* *	TYPE	VPH	EF (G/MI)	H (M)	W (M)
		X1	Y1	X2	Y2						
A. EBA	*	-1000	-11	0	-11	*	AG	1880	1.6	0.0	27.9
B. EBD	*	0	-5	1000	-5	*	AG	2160	1.6	0.0	17.0
C. WBA	*	1000	11	0	11	*	AG	1384	1.6	0.0	27.9
D. WBD	*	0	5	-1000	5	*	AG	831	1.6	0.0	17.0
E. SBA	*	-11	1000	-11	0	*	AG	3902	1.6	0.0	27.9
F. SBD	*	-5	0	-5	-1000	*	AG	3941	1.6	0.0	17.0
G. NBA	*	11	-1000	11	0	*	AG	2438	1.6	0.0	27.9
H. NBD	*	5	0	5	1000	*	AG	2673	1.6	0.0	17.0

III. RECEPTOR LOCATIONS

RECEPTOR	* *	COORDINATES (M)		
		X	Y	Z
1. R_001	*	-25	14	1.8
2. R_002	*	14	25	1.8
3. R_003	*	-14	-25	1.8
4. R_004	*	25	-14	1.8

1

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 2

JOB: Eastridge to BART  
 RUN: CALINE4 RUN (WORST CASE ANGLE)  
 Page 1

Capitol and Story 2043\_  
 POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* * BRG * (DEG) *	* PRED * CONC * (PPM) *	CONC/LINK (PPM)									
			A	B	C	D	E	F	G	H		
1. R_001	* 98.	* 0.8	* 0.0	* 0.2	* 0.2	* 0.1	* 0.3	* 0.0	* 0.0	* 0.0	* 0.1	
2. R_002	* 188.	* 1.0	* 0.0	* 0.1	* 0.1	* 0.0	* 0.0	* 0.3	* 0.3	* 0.2		
3. R_003	* 7.	* 1.1	* 0.1	* 0.0	* 0.0	* 0.0	* 0.4	* 0.3	* 0.0	* 0.2		
4. R_004	* 348.	* 0.8	* 0.0	* 0.2	* 0.1	* 0.0	* 0.2	* 0.0	* 0.1	* 0.3		

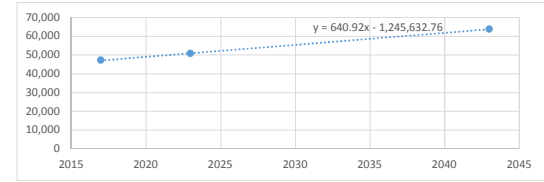
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EXIT

# **Operational Health Risk Scaling Factors and BAAQMD Screening Calculator Results**

Vehicle Emissions Adjustment (accounts for increase in emissions due to increased vehicle population and decreased intensity based on improvements in vehicle emissions technology).

2017	ADT	47,197
2023		50,827
2043		63,796

	ADT	SCALING FACTORS	PM2.5 Exhaust EF (g/m)	SCALING FACTORS
2014	45,181	100%	0.0144	100%
2015	45,822	101%	0.0117	82%
2016	46,463	103%	0.0103	72%
2017	47,104	104%	0.0082	57%
2018	47,745	106%	0.0071	50%
2019	48,385	107%	0.0063	44%
2020	49,026	109%	0.0053	37%
2021	49,667	110%	0.0047	32%
2022	50,308	111%	0.0033	23%
2023	50,949	113%	0.0025	17%
2024	51,590	114%	0.0024	17%
2025	52,231	116%	0.0024	17%
2026	52,872	117%	0.0023	16%
2027	53,513	118%	0.0022	16%
2028	54,154	120%	0.0022	15%
2029	54,795	121%	0.0021	14%
2030	55,436	123%	0.0020	14%
2031	56,077	124%	0.0019	13%
2032	56,717	126%	0.0019	13%
2033	57,358	127%	0.0018	13%
2034	57,999	128%	0.0018	12%
2035	58,640	130%	0.0017	12%
2036	59,281	131%	0.0017	12%
2037	59,922	133%	0.0017	12%
2038	60,563	134%	0.0016	11%
2039	61,204	135%	0.0016	11%
2040	61,845	137%	0.0016	11%
2041	62,486	138%	0.0016	11%
2042	63,127	140%	0.0016	11%
2043	63,768	141%	0.0016	11%



Weighted Scaling for 30 Year Exposure Duration

2014	100%	0.03
2015	83%	0.03
2016	74%	0.03
2017	59%	0.03
2018	52%	0.03
2019	47%	0.03
2020	40%	0.03
2021	36%	0.03
2022	26%	0.03
2023	20%	0.03
2024	19%	0.03
2025	19%	0.03
2026	19%	0.03
2027	18%	0.03
2028	18%	0.03
2029	18%	0.03
2030	17%	0.03
2031	17%	0.03
2032	16%	0.03
2033	16%	0.03
2034	16%	0.03
2035	16%	0.03
2036	15%	0.03
2037	15%	0.03
2038	15%	0.03
2039	15%	0.03
2040	15%	0.03
2041	15%	0.03
2042	15%	0.03
2043	15%	0.03
<b>Weighted</b>	<b>29%</b>	

Roadway Segment	Roadway Direction	Location of Nearest Receptor	Distance of Receptor to Roadway	Average Daily Traffic	Cancer Risk (per million)	Unscaled		Scaled	
						PM2.5 Concentration (micrograms per cubic meter)	Cancer Risk (per million)	PM2.5 Concentration (micrograms per cubic meter)	Cancer Risk (per million)
Ocala East of Capitol Expressway	East-West	South of Roadway	20 feet	26,063	17.36	0.44	6.89	0.13	
Capitol Expressway	North-South	East of Roadway	20 feet	63,796	57.77	1.37	22.94	0.40	
Combined							29.83	0.52	

OEHHA 2015 Update Scalar	1.3744
Cancer Risk Scalar	29%
PM2.5 Scalar	29%

# Health Risk Assessment Calculations and Modeling Files

2019 3rd tri start date

= values used in HRA calcs

ED = grouping the two emission sources into one ED

Emissions = unique to each source

1) ED	Year	frac of yr	3rd tri at beg of all const.			frac of yr	3rd tri at beg of guideway			% of time for apportioning emissins to bins		
			3rd tri	0<2	2<9		3rd tri	0<2	2<9			
	2019	0.62	0.25	0.37		0			0.4055556	0.5944444	0	
	2020	1.00		1.00		0.50	0.25	0.25	0	1	0	
	2021	1.00		0.63	0.36	1.00		1.00	0	0.6353022	0.3646978	
	2022	1.00			1.00	1.00		0.75	1.00	0	1	
	2023	0.72			0.72	0.72			0.72	0	1	
			0.25	2.00	2.08		0.25	2.00	1.72			
		max	0.25	2	7							

2) lb/hr

Guideway ->	Year	days	lbs	avg lbs/day	lbs by bin by year			lbs/hr			qc	
					3rd tri	0<2	2<9	3rd tri	0<2	2<9		
	2019	0			0.00	0	0				0.00	
	2020	183	80.5	0.44007	0.00	80.53	0.00				80.53	
	2021	364	142.0	0.39017	0.00	90.23	51.80				142.02	
	2022	115	38.7	0.33667	0.00	0.00	38.72				38.72	
	2023	0			0.00	0.00	0.00				0.00	
		662	261	1	0.00	171	91	0.00	0.02	0.01	261.27	0.00
All Else ->												
	2019	225	80.5	0.3578	32.65	47.85	0.00				80.50	
	2020	365	58.6	0.1605	0.00	58.60	0.00				58.60	
	2021	364			0.00	0.00	0.00				0.00	
	2022	364	5.6	0.0155	0.00	0.00	5.64				5.64	
	2023	263	7.46	0.0284	0.00	0.00	7.46				7.46	
		1581	152	1	33	106	13	0.00	0.01	0.00	152.20	0.00



2020 3rd tri start date

= values used in HRA calcs

ED = grouping the two emission sources into one ED

Emissions = unique to each source

	frac of yr	3rd tri at beg of all const.			frac of yr	3rd tri at beg of guideway			% of time for apportioning emissins to bins		
		3rd tri	0<2	2<9		3rd tri	0<2	2<9			
1) ED	2019	0.62	0.25	0.37	0						
	2020	1.00		1.00	0.50	0.25	0.25	0.4986339	0.5013661	0	
	2021	1.00		0.63	1.00		1.00	0	1	0	
	2022	1.00		1.00	1.00		0.75	0	0.4296906	0.5703094	
	2023	0.72		0.72	0.72		0.72	0	0	1	
	max		0.25	2	7		0.25	2.00	1.72		

2) lb/hr

	days	lbs	avg lbs/day	lbs by bin by year			lbs/hr			qc		
				3rd tri	0<2	2<9	3rd tri	0<2	2<9			
Guideway ->	2019	0								0.00		
	2020	183	80.5	0.44007	40.16	40.38		0.0182862	0.018386438	80.53		
	2021	364	142.0	0.39017		142.02			0.032514577	142.02		
	2022	115	38.7	0.33667		16.64	22.08		0.012055502	0.0160007	38.72	
	2023	0								0.00		
		662	261	1	40	199	22	0.01	0.03	0.00	261.27	0.00
All Else ->												
	2019	225	80.5	0.3578							0.00	
	2020	365	58.6	0.1605	29.22	109.88					139.10	
	2021	364				0.00					0.00	
	2022	364	5.6	0.0155		2.42	3.22				5.64	
	2023	263	7.46	0.0284			7.46				7.46	
		1581	152	1	29	112	11	0.00	0.01	0.00	152.20	0.00

added 2019 "all else" emissions to 2020 0>2 bin

## Health Risk - Dose and Risk Factors and Values

### Dose factors

		3rd trimester	0<2	2<9	source
Daily Breath Rate (L/kg-day)	Residential	361	1090	631	OEHHA 2015, Table 5.6, 95th %ile for 3rdtri-2yrs old; 80th for 2>9 per BAAQMD guidance
	Recreational	240	1200	640	OEHHA 2015, Table 5.8 (95th, moderate) for all bins but 3rd tri, which was taken from SJVUAPCD's draft guidance
	School	240	1200	520	BAAQMD guidance - 95th percentile
A		1	1	1	OEHHA 2015, page 5-24
EF, Exposure frequency (unitless), days,	Residential	0.96	0.96	0.96	OEHHA 2015, page 5-24, 350 days/yr
	Recreational	0.036	0.036	0.036	3x/week, 2 hours/day, for 9 years
	School	0.12	0.12	0.12	BAAQM Guidance - 180 days/yr, 6 hours/day
Conversion Factor		1.00E-06	1.00E-06	1.00E-06	(mg/ug + m3/L)
Adjustment Factor (schools)		1.00	1.00	1.00	Similar to WAF; OEHHA 2015, Page 4-44 and Equation 4.1; non-continuous emissions adjusted per WAF guidance. DF of 1 since construction and student presence assumed to completely overlap

### Risk Factors

CPF, DPM ([mg/kg-day] <sup>-1</sup> )		1.1	1.1	1.1	OEHHA 2015, Table 7.1
Average Age Sensitivity Factor		10	10	3	OEHHA 2015, Table 8.3
AT, Average Time (days)		70	70	70	Averaging time for lifetime cancer risk
FAH		1.00	1.00	1.00	OEHHA 2015, Table 8.4: Use FAH = 1 if a school is within the 1x10 <sup>-6</sup> (or greater) cancer risk isopleth
ED, Exposure Duration (years)		see ED calculation sheet			
Chronic Inhalation Reference Exposure Level, respiratory, DPM		5			

### conversions:

Second per hour	3600
Grams per ton	907184.74
Million	1,000,000
m2 per acre	4046.86
days per year	365





**Eastridge BART HRA**  
CONSTRUCTION - ASSUMES 3RD TRI EXPOSURE STARTS DAY 1 OF CONSTRUCTION

only >1

Rec ID	X	Y	AERMOD			Scaling factor (lb/hr)									Scaled Concentration ug/m3									Dose Inhalation by Bin									Cancer Risk by Bin									Summed Risk	Cases Per Million	Ch Hl	Annual PM2.5 conc
			concentration ug/m3 (united lb/hr)		Receptor Type	Guideway			All Else			Guideway			All Else			Guideway			All Else			Guideway			All Else																		
			Receptors	All Else		3rd tri	O<2	2<9	3rd tri	O<2	2<9	3rd tri	O<2	2<9	3rd tri	O<2	2<9	3rd tri	O<2	2<9	3rd tri	O<2	2<9	3rd tri	O<2	2<9	3rd tri	O<2	2<9																
			Guideway	All Else	3rd tri	O<2	2<9	3rd tri	O<2	2<9	3rd tri	O<2	2<9	3rd tri	O<2	2<9	3rd tri	O<2	2<9	3rd tri	O<2	2<9	3rd tri	O<2	2<9	3rd tri	O<2	2<9																	
1123	6044910	4133612.20	0.40	0.26	Residential	0.0000	0.021	0.11	0.002	0.006	0.001	0.000	0.009	0.005	0.000	0.001	0.000	0E+00	9E-06	3E-06	7E-07	2E-06	1E-07	0.0E+00	2.8E-06	2.7E-07	1.8E-09	4.8E-08	3.5E-09	3.1E-06	3.15	0.00	0.010												
1124	6044910	4133612.20	0.40	0.26	Residential	0.0000	0.021	0.11	0.002	0.006	0.001	0.000	0.009	0.005	0.000	0.001	0.000	0E+00	9E-06	3E-06	7E-07	2E-06	1E-07	0.0E+00	2.8E-06	2.7E-07	1.8E-09	4.8E-08	3.5E-09	3.1E-06	3.15	0.00	0.010												
1125	6044910	4133612.20	0.25	0.17	Residential	0.0000	0.021	0.11	0.002	0.006	0.001	0.000	0.005	0.003	0.000	0.001	0.000	0E+00	6E-06	2E-06	1E-07	1E-06	5E-08	0.0E+00	1.7E-06	1.6E-07	1.1E-09	3.1E-08	2.4E-09	1.9E-06	1.95	0.00	0.008												
1126	6044910	4133612.20	0.25	0.17	Residential	0.0000	0.021	0.11	0.002	0.006	0.001	0.000	0.005	0.003	0.000	0.001	0.000	0E+00	6E-06	2E-06	1E-07	1E-06	5E-08	0.0E+00	1.7E-06	1.6E-07	1.1E-09	3.1E-08	2.4E-09	1.9E-06	1.95	0.00	0.008												
1127	6044910	4133612.20	0.21	0.14	Residential	0.0000	0.021	0.11	0.002	0.006	0.001	0.000	0.004	0.002	0.000	0.001	0.000	0E+00	5E-06	1E-06	9E-08	8E-07	6E-08	0.0E+00	1.5E-06	1.4E-07	1.0E-09	2.6E-08	2.0E-09	1.6E-06	1.62	0.00	0.005												
1127	6044910	4133612.20	0.21	0.14	Residential	0.0000	0.021	0.11	0.002	0.006	0.001	0.000	0.004	0.002	0.000	0.001	0.000	0E+00	4E-06	1E-06	9E-08	8E-07	6E-08	0.0E+00	1.5E-06	1.4E-07	1.0E-09	2.6E-08	2.0E-09	1.6E-06	1.62	0.00	0.004												
1128	60450910	4133612.20	0.15	0.11	Residential	0.0000	0.021	0.11	0.002	0.006	0.001	0.000	0.003	0.002	0.000	0.001	0.000	0E+00	3E-06	1E-06	7E-08	6E-07	5E-08	0.0E+00	1.1E-06	1.0E-07	7.7E-10	1.7E-08	1.3E-09	1.2E-06	1.21	0.00	0.004												
1129	60450910	4133612.20	0.14	0.10	Residential	0.0000	0.021	0.11	0.002	0.006	0.001	0.000	0.003	0.002	0.000	0.001	0.000	0E+00	3E-06	9E-07	6E-08	6E-07	5E-08	0.0E+00	1.1E-06	1.0E-07	7.7E-10	1.7E-08	1.3E-09	1.2E-06	1.21	0.00	0.003												
1150	60428910	4133632.20	0.14	0.13	Residential	0.0000	0.021	0.11	0.002	0.006	0.001	0.000	0.003	0.002	0.000	0.001	0.000	0E+00	3E-06	1E-06	7E-08	7E-07	5E-08	0.0E+00	1.1E-06	1.0E-07	7.7E-10	1.7E-08	1.3E-09	1.2E-06	1.11	0.00	0.004												
1151	60428910	4133632.20	0.19	0.13	Residential	0.0000	0.021	0.11	0.002	0.006	0.001	0.000	0.004	0.002	0.000	0.001	0.000	0E+00	4E-06	1E-06	1E-07	1E-06	5E-08	0.0E+00	1.4E-06	1.3E-07	1.2E-09	3.3E-08	2.4E-09	1.5E-06	1.53	0.00	0.005												
1152	60430910	4133632.20	0.29	0.29	Residential	0.0000	0.021	0.11	0.002	0.006	0.001	0.000	0.006	0.003	0.001	0.002	0.000	0.000	0E+00	7E-06	2E-06	2E-07	2E-06	1E-07	0.0E+00	2.1E-06	2.0E-07	2.1E-09	5.4E-08	4.0E-09	2.3E-06	2.33	0.00	0.008											
1153	60438910	4133632.20	0.46	0.29	Residential	0.0000	0.021	0.11	0.002	0.006	0.001	0.000	0.010	0.005	0.001	0.002	0.000	0.000	0E+00	1E-05	3E-06	2E-07	2E-06	1E-07	0.0E+00	2.3E-06	2.1E-07	2.0E-09	5.4E-08	4.0E-09	2.6E-06	2.64	0.00	0.012											
1154	60440910	4133632.20	0.35	0.23	Residential	0.0000	0.021	0.11	0.002	0.006	0.001	0.000	0.007	0.004	0.001	0.001	0.000	0.000	0E+00	8E-06	2E-06	1E-07	1E-06	5E-08	0.0E+00	2.4E-06	2.3E-07	1.6E-09	4.2E-08	3.1E-09	2.7E-06	2.72	0.00	0.009											
1155	60442910	4133632.20	0.27	0.18	Residential	0.0000	0.021	0.11	0.002	0.006	0.001	0.000	0.006	0.003	0.000	0.001	0.000	0.000	0E+00	6E-06	2E-06	1E-07	1E-06	5E-08	0.0E+00	1.9E-06	1.8E-07	1.3E-09	3.4E-08	2.5E-09	2.1E-06	2.15	0.00	0.007											
1156	60444910	4133632.20	0.22	0.15	Residential	0.0000	0.021	0.11	0.002	0.006	0.001	0.000	0.005	0.003	0.000	0.001	0.000	0.000	0E+00	5E-06	2E-06	9E-08	9E-07	6E-08	0.0E+00	1.6E-06	1.5E-07	1.1E-09	2.8E-08	2.1E-09	1.8E-06	1.76	0.00	0.006											
1157	60452910	4133632.20	0.13	0.09	Residential	0.0000	0.021	0.11	0.002	0.006	0.001	0.000	0.003	0.001	0.000	0.001	0.000	0.000	0E+00	3E-06	9E-07	6E-08	6E-08	5E-07	4E-08	0.0E+00	8.0E-07	8.6E-08	6.5E-10	1.7E-08	1.3E-09	1.0E-06	1.00	0.00	0.003										
1172	60424910	4133652.20	0.13	0.11	Residential	0.0000	0.021	0.11	0.002	0.006	0.001	0.000	0.003	0.001	0.000	0.001	0.000	0.000	0E+00	3E-06	9E-07	7E-08	7E-07	5E-08	0.0E+00	8.0E-07	8.6E-08	7.9E-10	2.1E-08	1.5E-09	1.0E-06	1.01	0.00	0.003											
1173	60426910	4133652.20	0.17	0.15	Residential	0.0000	0.021	0.11	0.002	0.006	0.001	0.000	0.004	0.002	0.000	0.001	0.000	0.000	0E+00	4E-06	1E-06	9E-08	9E-07	6E-08	0.0E+00	1.2E-06	1.1E-07	1.1E-09	2.8E-08	2.1E-09	1.3E-06	1.34	0.00	0.004											
1174	60428910	4133652.20	0.24	0.23	Residential	0.0000	0.021	0.11	0.002	0.006	0.001	0.000	0.005	0.003	0.000	0.001	0.000	0.000	0E+00	5E-06	2E-06	1E-07	1E-06	5E-08	0.0E+00	1.7E-06	1.6E-07	1.6E-09	4.3E-08	3.2E-09	1.9E-06	1.94	0.00	0.007											
1175	60440910	4133652.20	0.30	0.20	Residential	0.0000	0.021	0.11	0.002	0.006	0.001	0.000	0.006	0.003	0.000	0.001	0.000	0.000	0E+00	7E-06	2E-06	1E-07	1E-06	5E-08	0.0E+00	2.1E-06	2.0E-07	1.4E-09	3.7E-08	2.7E-09	2.4E-06	2.37	0.00	0.008											
1176	60442910	4133652.20	0.24	0.16	Residential	0.0000	0.021	0.11	0.002	0.006	0.001	0.000	0.005	0.003	0.000	0.001	0.000	0.000	0E+00	5E-06	2E-06	1E-07	1E-06	5E-08	0.0E+00	1.7E-06	1.6E-07	1.1E-09	3.0E-08	2.2E-09	1.9E-06	1.91	0.00	0.006											
1177	60444910	4133652.20	0.20	0.14	Residential	0.0000	0.021	0.11	0.002	0.006	0.001	0.000	0.004	0.002	0.000	0.001	0.000	0.000	0E+00	5E-06	1E-06	8E-08	8E-07	6E-08	0.0E+00	1.4E-06	1.4E-07	9.8E-10	2.6E-08	1.9E-09	1.6E-06	1.60	0.00	0.005											
1178	60448910	4133652.20	0.15	0.11	Residential	0.0000	0.021	0.11	0.002	0.006	0.001	0.000	0.003	0.002	0.000	0.001	0.000	0.000	0E+00	3E-06	1E-06	6E-08	6E-07	5E-08	0.0E+00	1.1E-06	1.0E-07	7.6E-10	2.0E-08	1.5E-09	1.2E-06	1.19	0.00	0.004											
1179	60450910	4133652.20	0.13	0.10	Residential	0.0000	0.021	0.11	0.002	0.006	0.001	0.000	0.003	0.002	0.000	0.001	0.000	0.000	0E+00	3E-06	9E-07	6E-08	6E-07	5E-08	0.0E+00	9.4E-07	9.0E-08	6.8E-10	1.8E-08	1.3E-09	1.1E-06	1.05	0.00	0.003											
1196	60424910	4133672.20	0.15	0.13	Residential	0.0000	0.021	0.11	0.002	0.006	0.001	0.000	0.003	0.002	0.000	0.001	0.000	0.000	0E+00	3E-06	1E-06	8E-08	8E-07	6E-08	0.0E+00	1.1E-06	1.0E-07	9.4E-10	2.5E-08	1.8E-09	1.2E-06	1.19	0.00	0.004											
1197	60426910	4133672.20	0.21	0.19	Residential	0.0000	0.021	0.11	0.002	0.006	0.001	0.000	0.004	0.002	0.000	0.001	0.000	0.000	0E+00	5E-06	1E-06	1E-07	1E-06	5E-08	0.0E+00	1.5E-06	1.4E-07	1.4E-09	3.6E-08	2.6E-09	1.6E-06	1.65	0.00	0.006											
1198	60428910	4133672.20	0.44	0.29	Residential	0.0000	0.021	0.11	0.002	0.006	0.001	0.000	0.007	0.004	0.001	0.002	0.000	0.000	0E+00	1E-05	3E-06	2E-07	2E-06	1E-07	0.0E+00	2.8E-06	2.6E-07	2.6E-09	5.1E-08	3.8E-09	2.5E-06	2.53	0.00	0.011											
1199	60430910	4133672.20	0.33	0.23	Residential	0.0000	0.021	0.11	0.002	0.006	0.001	0.000	0.006	0.003	0.000	0.001	0.000	0.000	0E+00	7E-06	2E-06	1E-07	1E-06	5E-08	0.0E+00	2.0E-06	1.9E-07	1.4E-09	4.0E-08	3.0E-09	2.6E-06	2.63	0.00	0.008											
1200	60440910	4133672.20	0.16	0.11	Residential	0.0000	0.021	0.11	0.002	0.006	0.001	0.000	0.003	0.002	0.000	0.001																													



Eastridge BART HRA

CONSTRUCTION - ASSUMES 3RD TRI EXPOSURE STARTS DAY 1 OF CONSTRUCTION

only >1

Table with columns: RecID, X, Y, AERMOD concentration ug/m3, Receptor Type, Scaling factor (lb/hr), Scaled Concentration ug/m3, Dose Inhalation by Bin, Cancer Risk by Bin, Sum of Risk, Cases Per Million, Chl HI, Annual PM2.5 conc.





**Eastridge BART HRA**  
**CONSTRUCTION - ASSUMES 3RD TRI EXPOSURE STARTS DAY 1 OF CONSTRUCTION**

Rec ID	X	Y	AERMOD concentration ug/m3 (unitized lb/hr)		Receptor Type	Scaling factor (lb/hr)									Scaled Concentration ug/m3									Dose Inhalation by Bin						Cancer Risk						Sum of Risk	Cases Per Million	Chr HI	Annual PM2.5 conc	
			Guideway			3rd tri			0<2			2<9			Guideway			All Else			Guideway			All Else			Guideway			All Else										
			3rd tri	0<2		2<9	3rd tri	0<2	2<9	3rd tri	0<2	2<9	3rd tri	0<2	2<9	3rd tri	0<2	2<9	3rd tri	0<2	2<9	3rd tri	0<2	2<9	3rd tri	0<2	2<9	3rd tri	0<2	2<9	3rd tri	0<2	2<9	3rd tri	0<2					2<9
			Guideway	All Else																																				
2796	603669.10	4134912.20	0.35	0.21	Residential	0.0000	0.021	0.011	0.002	0.006	0.001	0.000	0.008	0.004	0.000	0.001	0.000	0E+00	8E-06	2E-06	1E-07	1E-06	9E-08	0.0E+00	2.5E-06	2.4E-07	1.5E-09	3.8E-08	2.8E-09	2.8E-06	2.77	0.00	0.009							
2797	603669.10	4134912.20	0.26	0.16	Residential	0.0000	0.021	0.011	0.002	0.006	0.001	0.000	0.006	0.003	0.000	0.001	0.000	0E+00	6E-06	2E-06	1E-07	9E-07	7E-08	0.0E+00	1.8E-06	1.7E-07	1.1E-09	2.9E-08	2.2E-09	2.0E-06	2.03	0.00	0.006							
2798	603729.10	4134912.20	0.16	0.11	Residential	0.0000	0.021	0.011	0.002	0.006	0.001	0.000	0.003	0.002	0.000	0.001	0.000	0E+00	4E-06	1E-06	6E-08	6E-07	4E-08	0.0E+00	1.1E-06	1.1E-07	7.4E-10	1.9E-08	1.4E-09	1.3E-06	1.25	0.00	0.004							
2799	603749.10	4134912.20	0.13	0.09	Residential	0.0000	0.021	0.011	0.002	0.006	0.001	0.000	0.003	0.001	0.000	0.001	0.000	0E+00	3E-06	9E-07	5E-08	5E-07	4E-08	0.0E+00	8.3E-07	8.9E-08	6.3E-10	1.6E-08	1.4E-09	1.0E-06	1.02	0.00	0.003							
2815	603629.10	4134932.20	0.58	0.29	Residential	0.0000	0.021	0.011	0.002	0.006	0.001	0.000	0.012	0.007	0.001	0.002	0.000	0E+00	1E-05	4E-06	7E-07	1E-06	1E-07	0.0E+00	4.1E-06	2.7E-07	1.5E-09	3.4E-08	4.0E-09	4.5E-06	4.53	0.00	0.014							
2816	603649.10	4134932.20	0.39	0.21	Residential	0.0000	0.021	0.011	0.002	0.006	0.001	0.000	0.008	0.004	0.000	0.001	0.000	0E+00	9E-06	3E-06	1E-07	1E-06	9E-08	0.0E+00	2.8E-06	2.7E-07	1.5E-09	3.0E-08	2.9E-09	3.1E-06	3.09	0.00	0.010							
2817	603669.10	4134932.20	0.29	0.16	Residential	0.0000	0.021	0.011	0.002	0.006	0.001	0.000	0.006	0.003	0.000	0.001	0.000	0E+00	6E-06	2E-06	1E-07	1E-06	7E-08	0.0E+00	2.0E-06	1.9E-07	1.1E-09	3.0E-08	2.9E-09	2.2E-06	2.22	0.00	0.007							
2818	603689.10	4134932.20	0.21	0.13	Residential	0.0000	0.021	0.011	0.002	0.006	0.001	0.000	0.005	0.002	0.000	0.001	0.000	0E+00	5E-06	1E-06	5E-08	5E-07	5E-08	0.0E+00	1.5E-06	1.4E-07	9.1E-10	2.4E-08	1.7E-09	1.7E-06	1.68	0.00	0.005							
2819	603729.10	4134932.20	0.14	0.09	Residential	0.0000	0.021	0.011	0.002	0.006	0.001	0.000	0.003	0.002	0.000	0.001	0.000	0E+00	3E-06	9E-07	5E-08	5E-07	4E-08	0.0E+00	8.6E-07	9.1E-08	6.3E-10	1.7E-08	1.4E-09	1.1E-06	1.07	0.00	0.003							
2833	603629.10	4134932.20	0.46	0.23	Residential	0.0000	0.021	0.011	0.002	0.006	0.001	0.000	0.010	0.005	0.000	0.001	0.000	0E+00	1E-05	3E-06	1E-07	1E-06	7E-08	0.0E+00	3.2E-06	3.1E-07	1.6E-09	4.2E-08	3.8E-09	3.6E-06	3.57	0.00	0.011							
2834	603649.10	4134952.20	0.32	0.17	Residential	0.0000	0.021	0.011	0.002	0.006	0.001	0.000	0.007	0.004	0.000	0.001	0.000	0E+00	7E-06	2E-06	1E-07	1E-06	7E-08	0.0E+00	2.7E-06	2.6E-07	1.7E-09	3.1E-08	2.9E-09	2.5E-06	2.48	0.00	0.008							
2835	603669.10	4134952.20	0.23	0.13	Residential	0.0000	0.021	0.011	0.002	0.006	0.001	0.000	0.005	0.003	0.000	0.001	0.000	0E+00	5E-06	2E-06	8E-08	8E-07	6E-08	0.0E+00	1.6E-06	1.6E-07	9.4E-10	2.5E-08	1.9E-09	1.8E-06	1.82	0.00	0.006							
2836	603709.10	4134952.20	0.14	0.09	Residential	0.0000	0.021	0.011	0.002	0.006	0.001	0.000	0.003	0.002	0.000	0.001	0.000	0E+00	3E-06	3E-06	5E-08	5E-07	4E-08	0.0E+00	1.0E-06	9.9E-08	6.4E-10	1.7E-08	1.4E-09	1.1E-06	1.11	0.00	0.004							
2865	603629.10	4134972.20	0.36	0.18	Residential	0.0000	0.021	0.011	0.002	0.006	0.001	0.000	0.008	0.004	0.000	0.001	0.000	0E+00	8E-06	3E-06	1E-07	1E-06	8E-08	0.0E+00	2.6E-06	2.5E-07	1.3E-09	3.3E-08	2.5E-09	2.9E-06	2.85	0.00	0.009							
2866	603649.10	4134972.20	0.26	0.14	Residential	0.0000	0.021	0.011	0.002	0.006	0.001	0.000	0.005	0.003	0.000	0.001	0.000	0E+00	6E-06	2E-06	8E-08	8E-07	6E-08	0.0E+00	1.8E-06	1.7E-07	9.8E-10	2.6E-08	1.9E-09	2.0E-06	2.01	0.00	0.006							
2867	603669.10	4134972.20	0.19	0.11	Residential	0.0000	0.021	0.011	0.002	0.006	0.001	0.000	0.004	0.002	0.000	0.001	0.000	0E+00	4E-06	1E-06	7E-08	7E-07	5E-08	0.0E+00	1.3E-06	1.3E-07	7.9E-10	2.1E-08	1.5E-09	1.5E-06	1.49	0.00	0.004							
2894	603529.10	4134992.20	0.14	0.12	Residential	0.0000	0.021	0.011	0.002	0.006	0.001	0.000	0.003	0.002	0.000	0.001	0.000	0E+00	3E-06	1E-06	7E-08	7E-07	5E-08	0.0E+00	9.9E-07	9.9E-08	8.1E-10	2.1E-08	1.6E-09	1.1E-06	1.11	0.00	0.004							
2895	603609.10	4134992.20	0.42	0.20	Residential	0.0000	0.021	0.011	0.002	0.006	0.001	0.000	0.009	0.005	0.000	0.001	0.000	0E+00	9E-06	3E-06	1E-07	1E-06	8E-08	0.0E+00	3.0E-06	2.9E-07	1.4E-09	3.6E-08	2.7E-09	3.3E-06	3.30	0.00	0.010							
2922	603529.10	4135012.20	0.17	0.14	Residential	0.0000	0.021	0.011	0.002	0.006	0.001	0.000	0.004	0.002	0.000	0.001	0.000	0E+00	4E-06	1E-06	8E-08	8E-07	6E-08	0.0E+00	1.2E-06	1.2E-07	9.9E-10	2.6E-08	1.9E-09	1.4E-06	1.38	0.00	0.005							
2923	603589.10	4135012.20	0.48	0.22	Residential	0.0000	0.021	0.011	0.002	0.006	0.001	0.000	0.010	0.005	0.000	0.001	0.000	0E+00	1E-05	3E-06	1E-07	1E-06	9E-08	0.0E+00	3.4E-06	3.2E-07	1.5E-09	4.0E-08	3.0E-09	3.7E-06	3.74	0.00	0.011							
2924	603609.10	4135012.20	0.30	0.16	Residential	0.0000	0.021	0.011	0.002	0.006	0.001	0.000	0.006	0.003	0.000	0.001	0.000	0E+00	7E-06	2E-06	1E-07	9E-07	7E-08	0.0E+00	2.1E-06	2.0E-07	1.1E-09	2.9E-08	2.2E-09	2.3E-06	2.35	0.00	0.007							
2925	603629.10	4135012.20	0.20	0.12	Residential	0.0000	0.021	0.011	0.002	0.006	0.001	0.000	0.004	0.002	0.000	0.001	0.000	0E+00	5E-06	1E-06	7E-08	7E-07	5E-08	0.0E+00	1.4E-06	1.4E-07	8.7E-10	2.3E-08	1.7E-09	1.6E-06	1.59	0.00	0.005							
2948	603509.10	4135032.20	0.14	0.11	Residential	0.0000	0.021	0.011	0.002	0.006	0.001	0.000	0.003	0.002	0.000	0.001	0.000	0E+00	3E-06	1E-06	7E-08	7E-07	5E-08	0.0E+00	9.9E-07	9.9E-08	7.8E-10	2.0E-08	1.5E-09	1.1E-06	1.11	0.00	0.004							
2949	603529.10	4135032.20	0.22	0.18	Residential	0.0000	0.021	0.011	0.002	0.006	0.001	0.000	0.005	0.002	0.000	0.001	0.000	0E+00	5E-06	2E-06	1E-07	1E-06	8E-08	0.0E+00	1.5E-06	1.5E-07	1.3E-09	3.4E-08	2.6E-09	1.7E-06	1.73	0.00	0.006							
2950	603589.10	4135032.20	0.28	0.18	Residential	0.0000	0.021	0.011	0.002	0.006	0.001	0.000	0.006	0.003	0.000	0.001	0.000	0E+00	6E-06	2E-06	1E-07	1E-06	7E-08	0.0E+00	2.0E-06	1.9E-07	1.2E-09	3.3E-08	2.4E-09	2.2E-06	2.23	0.00	0.007							
2951	603609.10	4135032.20	0.19	0.13	Residential	0.0000	0.021	0.011	0.002	0.006	0.001	0.000	0.004	0.002	0.000	0.001	0.000	0E+00	4E-06	1E-06	8E-08	8E-07	6E-08	0.0E+00	1.3E-06	1.3E-07	9.4E-10	2.5E-08	1.8E-09	1.5E-06	1.47	0.00	0.005							
2952	603629.10	4135032.20	0.13	0.11	Residential	0.0000	0.021	0.011	0.002	0.006	0.001	0.000	0.003	0.002	0.000	0.001	0.000	0E+00	3E-06	9E-07	6E-08	6E-07	4E-08	0.0E+00	9.5E-07	9.1E-08	7.4E-10	1.9E-08	1.4E-09	1.1E-06	1.06	0.00	0.003							
2975	603509.10	4135052.20	0.15	0.14	Residential	0.0000	0.021	0.011	0.002	0.006	0.001	0.000	0.003	0.002	0.000	0.001	0.000	0E+00	3E-06	1E-06	7E-08	7E-07	5E-08	0.0E+00	1.3E-06	1.3E-07	1.0E-09	2.6E-08	2.0E-09	1.2E-06	1.22	0.00	0.004							
2976	603569.10	4135052.20	0.17	0.20	Residential	0.0000	0.021	0.011	0.002	0.006	0.001	0.000	0.004	0.002	0.000	0.001	0.000	0E+00	4E-06	1E-06	1E-07	1E-06	8E-08	0.0E+00	1.1E-06	1.0E-07	1.0E-09	2.6E-08												

Eastridge BART HRA

CONSTRUCTION - ASSUMES 3RD TRI EXPOSURE STARTS DAY 1 OF GUIDEWAY CONSTRUCTION, JULY 2020

only >1

Table with columns: RecID, X, Y, AERMOD concentration ug/m3 (unitized lb/hr), Receptor Type, Scaling factor (lb/hr), Scaled Concentration ug/m3, Dose Inhalation by Bin, Cancer Risk by Bin, Sum of Risk, Cases Per Million, Chl HI, Annual PM2.5 conc. Rows include receptor coordinates (X, Y), receptor types (Residential), scaling factors, scaled concentrations, and various risk metrics.

Eastridge BART HRA

CONSTRUCTION - ASSUMES 3RD TRI EXPOSURE STARTS DAY 1 OF GUIDEWAY CONSTRUCTION, JULY 2020

only >1

RecID	X	Y	AERMOD concentration ug/m3 (unitized lb/hr)		Receptor Type	Scaling factor (lb/hr)									Scaled Concentration ug/m3									Dose Inhalation by Bin									Cancer Risk by Bin									Summed Risk	Cases Per Million	Chl HI	Annual PM2.5 conc
			Guideway			All Else		Guideway			All Else			Guideway			All Else			Guideway			All Else																						
			3rd tri	O-2		2-9	3rd tri	O-2	2-9	3rd tri	O-2	2-9	3rd tri	O-2	2-9	3rd tri	O-2	2-9	3rd tri	O-2	2-9	3rd tri	O-2	2-9	3rd tri	O-2	2-9	3rd tri	O-2	2-9															
695	60469.10	413341.20	0.13	0.12	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.003	0.000	0.000	0.001	0.000	0.000	0.001	0.000	25-07	35-06	25-07	65-08	75-07	45-08	8.8E-09	1.1E-06	1.7E-08	7.3E-10	2.3E-08	1.1E-09	1.1E-06	1.10	0.00	0.004									
723	60469.10	413341.20	0.18	0.16	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.003	0.000	0.000	0.001	0.000	0.000	0.001	0.000	25-07	35-06	25-07	65-08	75-07	45-08	8.8E-09	1.1E-06	1.7E-08	7.3E-10	2.3E-08	1.1E-09	1.10	0.00	0.004										
724	604449.10	413357.20	0.15	0.18	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.003	0.000	0.000	0.001	0.000	0.000	0.001	0.000	35-07	45-06	35-07	75-07	15-06	6E-08	1.1E-06	1.7E-08	7.3E-10	2.3E-08	1.1E-09	1.10	0.00	0.005											
725	604449.10	413357.20	0.22	0.30	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.005	0.001	0.002	0.000	0.000	0.002	0.000	0.000	45-07	6E-06	45-07	75-07	15-06	15-07	1.5E-08	1.8E-06	3.0E-08	1.9E-09	5.9E-08	2.9E-09	3.9E-06	1.91	0.00	0.007									
726	60469.10	413341.20	0.13	0.12	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.005	0.001	0.000	0.001	0.000	0.000	0.000	0.001	0.000	45-07	5E-06	35-07	75-07	15-06	15-07	1.5E-08	1.8E-06	3.0E-08	1.9E-09	5.9E-08	2.9E-09	3.9E-06	1.91	0.00	0.005								
727	60469.10	413341.20	0.18	0.16	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.004	0.000	0.000	0.001	0.000	0.000	0.001	0.000	45-07	5E-06	35-07	75-07	15-06	15-07	1.5E-08	1.8E-06	3.0E-08	1.9E-09	5.9E-08	2.9E-09	3.9E-06	1.91	0.00	0.006									
728	60469.10	413341.20	0.15	0.14	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.004	0.000	0.000	0.001	0.000	0.000	0.001	0.000	35-07	4E-06	35-07	75-07	15-06	15-07	1.5E-08	1.8E-06	3.0E-08	1.9E-09	5.9E-08	2.9E-09	3.9E-06	1.91	0.00	0.005									
729	60469.10	413341.20	0.13	0.12	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.003	0.000	0.000	0.001	0.000	0.000	0.001	0.000	35-07	4E-06	35-07	75-07	15-06	15-07	1.5E-08	1.8E-06	3.0E-08	1.9E-09	5.9E-08	2.9E-09	3.9E-06	1.91	0.00	0.004									
756	604429.10	413337.20	0.14	0.15	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.003	0.000	0.000	0.001	0.000	0.000	0.001	0.000	25-07	4E-06	25-07	85-08	15-06	15-07	1.5E-08	1.8E-06	3.0E-08	1.9E-09	5.9E-08	2.9E-09	3.9E-06	1.18	0.00	0.004									
757	604449.10	413337.20	0.18	0.23	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.005	0.001	0.002	0.000	0.000	0.001	0.000	0.000	25-07	4E-06	35-07	75-07	15-06	15-07	1.5E-08	1.8E-06	3.0E-08	1.9E-09	5.9E-08	2.9E-09	3.9E-06	2.25	0.00	0.006									
758	604429.10	413337.20	0.38	0.35	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.002	0.009	0.001	0.001	0.002	0.000	0.000	0.001	0.000	0.000	0.000	0.000	75-07	15-06	6E-07	25-07	15-06	15-07	2.0E-08	2.4E-06	4.3E-08	6.9E-09	3.1E-08	1.5E-09	3.2E-06	2.25	0.00	0.012						
759	604449.10	413337.20	0.29	0.26	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.007	0.001	0.001	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	5E-07	7E-06	5E-07	15-07	25-06	3E-08	2.0E-08	2.4E-06	4.3E-08	2.5E-06	2.47	0.00	0.009									
788	604409.10	413339.20	0.12	0.13	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.003	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	25-07	3E-06	25-07	75-08	9E-07	5E-08	8.4E-09	1.0E-07	1.7E-08	8.4E-10	2.6E-08	1.2E-09	1.1E-06	1.06	0.00	0.004						
789	604429.10	413339.20	0.16	0.19	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.004	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	25-07	4E-06	35-07	75-08	1E-06	6E-08	1.1E-08	1.3E-06	2.4E-08	1.2E-09	3.7E-08	1.7E-09	1.4E-06	1.39	0.00	0.005						
790	604509.10	413339.20	0.44	0.41	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.002	0.011	0.001	0.001	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	25-07	3E-06	15-07	75-08	3E-06	1E-07	3.0E-08	3.6E-06	6.0E-08	2.6E-09	7.9E-08	3.7E-09	3.8E-06	3.77	0.00	0.013						
791	604529.10	413339.20	0.32	0.30	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.002	0.008	0.001	0.001	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	8E-07	8E-06	5E-07	2E-07	2E-06	1E-07	2.2E-08	2.6E-06	4.4E-08	1.9E-09	5.8E-08	2.7E-09	2.8E-06	2.79	0.00	0.010						
792	604569.10	413339.20	0.21	0.19	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.005	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1E-07	1E-06	6E-08	1.4E-07	1.7E-08	2.9E-08	1.2E-09	3.6E-08	1.7E-09	1.8E-06	1.78	0.00	0.005									
793	604589.10	413339.20	0.18	0.16	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.004	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	8E-08	1E-06	5E-08	1.2E-08	1.4E-06	2.4E-08	9.8E-10	3.0E-08	1.4E-09	1.5E-06	1.51	0.00	0.006									
819	604409.10	413412.20	0.14	0.16	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.004	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2E-07	4E-06	2E-07	8E-08	1E-06	5E-08	9.8E-09	1.2E-06	1.9E-08	1.0E-09	3.1E-08	1.5E-09	1.2E-06	1.23	0.00	0.005						
820	604429.10	413412.20	0.20	0.24	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.005	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2E-07	2E-06	8E-08	1.4E-08	1.6E-06	2.7E-08	1.5E-09	4.7E-08	2.2E-09	1.7E-06	1.71	0.00	0.006									
821	604509.10	413412.20	0.37	0.34	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.002	0.009	0.001	0.001	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	6E-07	1E-06	5E-07	2E-07	2E-06	1E-07	2.5E-08	3.0E-06	5.0E-08	2.2E-09	6.7E-08	3.2E-09	3.2E-06	3.19	0.00	0.011						
822	604529.10	413412.20	0.28	0.25	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.007	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	5E-07	7E-06	5E-07	1E-07	2E-06	9E-08	1.9E-08	2.3E-06	3.9E-08	1.6E-09	4.9E-08	2.3E-09	2.4E-06	2.49	0.00	0.009						
823	604569.10	413412.20	0.19	0.17	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.005	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3E-07	5E-06	3E-07	9E-08	1E-06	6E-08	1.3E-08	1.6E-06	2.6E-08	1.0E-09	3.2E-08	1.5E-09	1.6E-06	1.64	0.00	0.006						
824	604589.10	413412.20	0.16	0.14	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.004	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3E-07	4E-06	3E-07	8E-08	9E-07	5E-08	1.1E-08	1.3E-06	2.0E-08	8.9E-10	2.7E-08	1.3E-09	1.4E-06	1.61	0.00	0.006						
825	604609.10	413412.20	0.14	0.12	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.004	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2E-07	4E-06	2E-07	7E-08	9E-07	4E-08	9.9E-09	1.2E-06	2.0E-08	7.8E-10	2.4E-08	1.3E-09	1.2E-06	1.24	0.00	0.004						
826	604629.10	413412.20	0.13	0.14	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.003	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2E-07	3E-06	2E-07	6E-08	7E-07	4E-08	8.8E-09	1.1E-06	1.7E-08	6.9E-10	2.1E-08	1.0E-09	1.1E-06	1.11	0.00	0.004						
851	604409.10	413341.20	0.17	0.20	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.004	0.000	0.000	0.001																													

Eastridge BART HRA

CONSTRUCTION - ASSUMES 3RD TRI EXPOSURE STARTS DAY 1 OF GUIDEWAY CONSTRUCTION, JULY 2020

only 10

		AERMOD concentration ug/m3 (unitized lb/hr)			Scaling factor (lb/hr)									Scaled Concentration ug/m3									Dose Inhalation by Bin									Cancer Risk by Bin									Sum of Risk			HI	PM2.5 conc
		Receptors		Receptor Type	Guideway			All Else			Guideway			All Else			Guideway			All Else			Guideway			All Else			Summed Risk	Cases Per Million	Chr HI														
RecID	X	Y	Guideway	All Else	3rd tri	O-2	2-9	3rd tri	O-2	2-9	3rd tri	O-2	2-9	3rd tri	O-2	2-9	3rd tri	O-2	2-9	3rd tri	O-2	2-9	3rd tri	O-2	2-9	3rd tri	O-2	2-9	3rd tri	O-2	2-9	3rd tri	O-2	2-9	3rd tri	O-2	2-9								
1067	604469.10	4133572.20	0.25	0.17	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.006	0.001	0.000	0.001	0.000	0.001	0.000	0.000	0.001	0.000	0.000	46:07	65:06	46:07	96:08	11:06	65:08	1.77E-08	2.0E-08	3.4E-08	1.1E-09	3.4E-08	1.6E-09	2.1E-06	2.12	0.00	0.007						
1068	604469.10	4133572.20	0.18	0.13	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.006	0.001	0.000	0.001	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.000	46:07	56:06	36:07	96:08	11:06	65:08	1.4E-08	1.7E-08	2.8E-08	9.3E-10	3.1E-08	1.4E-09	1.8E-06	1.77	0.00	0.006					
1069	604469.10	4133572.20	0.18	0.13	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.006	0.001	0.000	0.001	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.000	36:07	56:06	36:07	96:08	11:06	65:08	1.4E-08	1.7E-08	2.8E-08	9.3E-10	3.1E-08	1.4E-09	1.8E-06	1.77	0.00	0.005					
1070	604529.10	4133572.20	0.15	0.11	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.004	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.000	36:07	46:06	36:07	66:08	76:07	46:08	1.1E-08	1.3E-08	2.1E-08	7.0E-10	2.1E-08	1.0E-09	1.3E-06	1.32	0.00	0.005					
1071	604529.10	4133572.20	0.12	0.09	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.003	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.000	26:07	36:06	26:07	66:08	76:07	46:08	9.0E-09	1.0E-08	1.6E-08	5.7E-10	1.6E-08	8.0E-10	1.1E-06	1.11	0.00	0.004					
1071	604529.10	4133592.20	0.13	0.12	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.003	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.000	26:07	36:06	26:07	66:08	76:07	46:08	9.0E-09	1.1E-08	1.6E-08	5.7E-10	1.6E-08	8.0E-10	1.1E-06	1.11	0.00	0.004					
1092	604369.10	4133592.20	0.18	0.16	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.004	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.000	36:07	56:06	36:07	96:08	11:06	65:08	1.0E-08	1.2E-08	2.0E-08	7.0E-10	2.3E-08	1.1E-09	1.5E-06	1.52	0.00	0.004					
1093	604369.10	4133592.20	0.26	0.26	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.007	0.001	0.000	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.000	56:07	76:06	46:07	96:08	11:06	65:08	1.8E-08	2.2E-08	3.6E-08	1.2E-09	3.6E-08	1.6E-09	2.1E-06	2.12	0.00	0.008						
1094	604409.10	4133592.20	0.47	0.30	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.002	0.012	0.001	0.001	0.000	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.000	86:07	16:05	86:07	96:08	11:06	65:08	3.0E-08	3.6E-08	6.0E-08	1.9E-09	5.9E-08	2.8E-09	4.0E-06	4.00	0.00	0.010					
1095	604429.10	4133592.20	0.35	0.23	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.002	0.009	0.001	0.001	0.000	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.000	66:07	96:06	66:07	96:08	11:06	65:08	2.4E-08	2.9E-08	4.8E-08	1.5E-09	4.6E-08	2.3E-09	3.0E-06	2.98	0.00	0.013					
1096	604449.10	4133592.20	0.27	0.19	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.007	0.001	0.001	0.000	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.000	56:07	76:06	56:07	96:08	11:06	65:08	1.7E-08	2.0E-08	3.3E-08	1.0E-09	3.0E-08	1.4E-09	2.4E-06	2.35	0.00	0.008					
1097	604469.10	4133592.20	0.23	0.16	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.006	0.001	0.000	0.001	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.000	46:07	66:06	46:07	86:08	11:06	65:08	1.5E-08	1.9E-08	3.1E-08	9.8E-10	3.0E-08	1.4E-09	1.9E-06	1.93	0.00	0.007					
1098	604489.10	4133592.20	0.19	0.13	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.005	0.001	0.000	0.001	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.000	36:07	56:06	36:07	76:08	96:07	56:08	1.3E-08	1.6E-08	2.6E-08	8.4E-10	2.6E-08	1.2E-09	1.6E-06	1.63	0.00	0.006					
1099	604509.10	4133592.20	0.16	0.12	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.004	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.000	36:07	46:06	36:07	66:08	76:07	46:08	1.1E-08	1.4E-08	2.4E-08	7.4E-10	2.3E-08	1.1E-09	1.4E-06	1.41	0.00	0.005					
1100	604529.10	4133592.20	0.14	0.10	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.003	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.000	66:08	66:07	46:08	9.9E-09	1.2E-08	2.0E-08	6.6E-10	2.0E-08	9.6E-10	1.2E-06	1.24	0.00	0.004								
1101	604549.10	4133592.20	0.13	0.09	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.003	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.000	56:08	66:07	36:08	8.8E-09	1.1E-08	1.7E-08	5.9E-10	1.8E-08	8.7E-10	1.1E-06	1.10	0.00	0.004								
1121	604289.10	4133612.20	0.16	0.14	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.004	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.000	36:07	46:06	36:07	86:08	96:07	56:08	1.1E-08	1.3E-08	2.1E-08	8.9E-10	2.8E-08	1.3E-09	1.4E-06	1.33	0.00	0.005					
1122	604309.10	4133612.20	0.22	0.21	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.006	0.001	0.000	0.001	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.000	46:07	66:06	46:07	96:08	11:06	65:08	1.5E-08	1.8E-08	3.0E-08	1.3E-09	4.1E-08	1.9E-09	1.9E-06	1.93	0.00	0.007					
1123	604409.10	4133612.20	0.40	0.26	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.002	0.010	0.001	0.001	0.000	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.000	76:07	16:05	76:07	96:08	11:06	65:08	2.7E-08	3.3E-08	5.4E-08	1.6E-09	5.0E-08	2.4E-09	3.4E-06	3.43	0.00	0.012					
1124	604429.10	4133612.20	0.31	0.20	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.002	0.008	0.001	0.000	0.001	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.000	56:07	86:06	56:07	96:08	11:06	65:08	2.1E-08	2.5E-08	4.2E-08	1.3E-09	4.0E-08	1.9E-09	2.6E-06	2.63	0.00	0.009					
1125	604449.10	4133612.20	0.25	0.17	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.006	0.001	0.000	0.001	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.000	46:07	66:06	46:07	96:08	11:06	65:08	1.7E-08	2.0E-08	3.4E-08	1.1E-09	3.3E-08	1.5E-09	2.1E-06	2.12	0.00	0.007					
1126	604469.10	4133612.20	0.21	0.14	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.005	0.001	0.000	0.001	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.000	46:07	56:06	36:07	86:08	96:07	56:08	1.4E-08	1.7E-08	2.8E-08	9.0E-10	2.8E-08	1.3E-09	1.8E-06	1.77	0.00	0.006					
1127	604489.10	4133612.20	0.18	0.12	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.004	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.000	36:07	56:06	36:07	76:08	86:07	46:08	1.2E-08	1.4E-08	2.4E-08	7.8E-10	2.4E-08	1.1E-09	1.5E-06	1.51	0.00	0.005					
1128	604509.10	4133612.20	0.15	0.11	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.004	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.000	36:07	46:06	36:07	66:08	76:07	46:08	1.1E-08	1.3E-08	2.3E-08	6.9E-10	2.1E-08	1.0E-09	1.3E-06	1.32	0.00	0.004					
1129	604529.10	4133612.20																																											

Eastridge BART HRA  
CONSTRUCTION - ASSUMES 3RD TRI EXPOSURE STARTS DAY 1 OF GUIDEWAY CONSTRUCTION, JULY 2020

only >1

Table with columns: RecID, X, Y, AERMOD concentration ug/m3 (united lb/hr), Receptor Type, Scaling factor (lb/hr), Scaled Concentration ug/m3, Dose Inhalation by Bin, Cancer Risk by Bin, Sum of Risk, Cases Per Million, Chr HI, Annual PM2.5 conc.

Eastridge BART HRA

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Table with columns: RecID, X, Y, AERMOD concentration ug/m3 (unitized lb/hr), Receptor Type, Scaling factor (lb/hr), Scaled Concentration ug/m3, Dose Inhalation by Bin, Cancer Risk by Bin, HI, PM2.5 conc. Rows include receptor locations like 604193.10, 604193.10, 604193.10, etc.

Eastridge BART HRA

CONSTRUCTION - ASSUMES 3RD TRI EXPOSURE STARTS DAY 1 OF GUIDEWAY CONSTRUCTION, JULY 2020

only >1

RecID	AERMOD concentration ug/m3 (united lb/hr)		Receptor Type	Scaling factor (lb/hr)									Scaled Concentration ug/m3									Dose Inhalation by Bin									Cancer Risk by Bin									Sum of Risk	Cases Per Million	Chr HI	Annual PM2.5 conc
	X	Y		Guideway			All Else			Guideway			All Else			Guideway			All Else			Guideway			All Else																		
				3rd tri	O<2	2<9	3rd tri	O<2	2<9	3rd tri	O<2	2<9	3rd tri	O<2	2<9	3rd tri	O<2	2<9	3rd tri	O<2	2<9	3rd tri	O<2	2<9	3rd tri	O<2	2<9																
				Guideway			All Else			Guideway			All Else			Guideway			All Else			Guideway			All Else																		
1948	604099	4134312	0.12	0.10	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.003	0.000	0.000	0.001	0.000	25-07	35-06	25-07	65-08	65-07	45-08	8.4E-09	1.0E-06	1.7E-08	6.5E-10	2.0E-08	9.5E-10	1.1E-06	1.05	0.00	0.004										
1949	603899	4134312	0.12	0.10	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.003	0.000	0.000	0.001	0.000	35-07	45-06	35-07	65-08	65-07	45-08	8.4E-09	1.0E-06	1.7E-08	6.5E-10	2.0E-08	9.5E-10	1.1E-06	1.05	0.00	0.004										
1950	603899	4134312	0.12	0.10	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.003	0.000	0.000	0.001	0.000	45-07	65-06	45-07	75-07	75-06	55-07	1.0E-08	1.5E-06	3.0E-08	3.0E-10	1.0E-08	4.5E-10	2.0E-06	1.95	0.00	0.007										
1951	604099	4134312	0.45	0.30	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.002	0.011	0.001	0.000	0.002	0.000	85-07	15-08	85-07	25-07	25-06	15-07	3.1E-11	3.7E-09	6.8E-08	1.9E-09	5.8E-08	2.8E-09	3.9E-06	3.89	0.00	0.013										
1952	604099	4134312	0.45	0.30	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.007	0.001	0.000	0.001	0.000	55-07	75-06	55-07	15-07	15-06	05-07	1.0E-08	1.5E-06	3.0E-08	3.0E-10	1.0E-08	4.5E-10	2.0E-06	1.95	0.00	0.008										
1953	604099	4134312	0.45	0.30	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.006	0.001	0.000	0.001	0.000	85-08	15-06	85-08	1.6E-08	1.9E-06	3.1E-08	1.6E-08	1.9E-06	3.1E-08	9.8E-10	3.0E-08	2.0E-09	1.97	0.00	0.007											
1973	603899	4134332	0.20	0.20	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.007	0.001	0.000	0.001	0.000	25-07	35-06	25-07	65-08	65-07	45-08	8.4E-09	1.0E-06	1.7E-08	6.5E-10	2.0E-08	9.5E-10	1.1E-06	1.05	0.00	0.009										
1974	603899	4134332	0.53	0.34	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.003	0.013	0.013	0.001	0.001	0.002	95-07	15-05	95-07	25-07	25-06	15-07	3.6E-08	4.4E-06	7.7E-08	2.2E-09	6.7E-08	3.2E-09	4.5E-06	4.54	0.00	0.015										
1975	604099	4134332	0.39	0.25	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.002	0.010	0.010	0.001	0.000	0.002	75-07	15-05	75-07	15-07	15-06	05-07	2.7E-08	3.2E-06	5.4E-08	1.5E-09	5.0E-08	2.4E-09	3.4E-06	3.37	0.00	0.011										
1976	604099	4134332	0.31	0.20	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.002	0.008	0.008	0.001	0.000	0.001	55-07	85-06	55-07	15-07	15-06	05-07	2.1E-08	2.5E-06	4.1E-08	1.1E-09	4.0E-08	1.7E-09	2.5E-06	2.50	0.00	0.009										
1977	604099	4134332	0.21	0.14	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.005	0.001	0.000	0.001	0.000	45-07	65-06	45-07	85-08	85-07	65-08	1.0E-08	1.7E-06	3.5E-08	8.0E-10	2.5E-08	1.3E-09	1.8E-06	1.81	0.00	0.006										
1978	604099	4134332	0.18	0.12	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.005	0.001	0.000	0.001	0.000	45-07	55-06	45-07	75-08	75-07	45-08	1.2E-08	1.5E-06	3.2E-08	7.7E-10	2.4E-08	1.1E-09	1.5E-06	1.55	0.00	0.005										
1997	603899	4134352	0.45	0.29	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.002	0.011	0.011	0.001	0.000	0.002	85-07	15-05	85-07	25-07	25-06	15-07	3.1E-08	3.7E-06	6.2E-08	1.8E-09	5.6E-08	2.7E-09	3.9E-06	3.90	0.00	0.013										
1998	604099	4134352	0.35	0.22	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.002	0.009	0.009	0.001	0.000	0.001	65-07	95-06	65-07	15-07	15-06	05-08	2.4E-08	2.9E-06	4.7E-08	1.4E-09	4.4E-08	2.1E-09	3.0E-06	2.97	0.00	0.010										
1999	604099	4134352	0.28	0.18	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.007	0.001	0.000	0.001	0.000	55-07	75-06	55-07	15-07	15-06	05-08	1.9E-08	2.3E-06	3.8E-08	1.1E-09	3.5E-08	1.7E-09	2.4E-06	2.37	0.00	0.008										
2000	604099	4134352	0.23	0.15	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.006	0.001	0.000	0.001	0.000	85-08	95-07	85-08	1.6E-08	1.9E-06	3.1E-08	1.6E-08	1.9E-06	3.1E-08	9.5E-10	3.0E-08	2.0E-09	1.96	0.00	0.007											
2001	604099	4134352	0.17	0.11	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.004	0.000	0.000	0.001	0.000	65-08	75-07	65-08	1.1E-08	1.4E-06	2.3E-08	7.2E-10	2.2E-08	1.0E-09	1.4E-06	1.43	0.00	0.005													
2002	604109	4134352	0.15	0.10	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.004	0.000	0.000	0.001	0.000	35-07	45-06	35-07	55-08	55-07	45-08	1.0E-08	1.2E-06	2.0E-08	6.3E-10	2.0E-08	9.3E-10	1.3E-06	1.26	0.00	0.004										
2018	603969	4134372	0.54	0.33	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.003	0.013	0.013	0.001	0.001	0.002	95-07	15-05	95-07	25-07	25-06	15-07	3.7E-08	4.4E-06	7.3E-08	2.1E-09	6.4E-08	3.0E-09	4.6E-06	4.58	0.00	0.015										
2019	603969	4134372	0.40	0.25	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.002	0.010	0.010	0.001	0.000	0.001	75-07	15-05	75-07	15-07	15-06	05-08	2.7E-08	3.3E-06	5.4E-08	1.6E-09	4.8E-08	2.3E-09	3.4E-06	3.39	0.00	0.011										
2020	604009	4134372	0.31	0.20	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.002	0.008	0.001	0.000	0.001	0.000	55-07	85-06	55-07	15-07	15-06	05-08	2.1E-08	2.5E-06	4.2E-08	1.2E-09	3.8E-08	1.8E-09	2.6E-06	2.64	0.00	0.009										
2021	604029	4134372	0.25	0.16	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.006	0.001	0.000	0.001	0.000	45-07	75-06	45-07	95-08	95-07	65-08	1.7E-08	2.1E-06	3.4E-08	1.0E-09	3.2E-08	1.5E-09	2.1E-06	2.14	0.00	0.007										
2022	604049	4134372	0.21	0.14	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.005	0.001	0.000	0.001	0.000	45-07	55-06	45-07	75-08	75-07	45-08	1.4E-08	1.7E-06	2.8E-08	8.7E-10	2.7E-08	1.3E-09	1.8E-06	1.79	0.00	0.006										
2023	604069	4134372	0.18	0.12	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.004	0.000	0.000	0.001	0.000	35-07	55-06	35-07	65-08	65-07	45-08	1.2E-08	1.5E-06	2.4E-08	7.6E-10	2.3E-08	1.1E-09	1.5E-06	1.53	0.00	0.005										
2024	604129	4134372	0.17	0.09	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.003	0.000	0.000	0.001	0.000	25-07	35-06	25-07	55-08	55-07	35-08	8.9E-09	1.0E-06	1.7E-08	5.4E-10	1.7E-08	7.9E-10	1.0E-06	1.04	0.00	0.004										
2041	604099	4134392	0.29	0.19	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.007	0.001	0.000	0.001	0.000	95-08	15-06	95-08	1.9E-08	2.3E-06	3.8E-08	1.1E-09	3.4E-08	1.6E-09	2.4E-06	2.36	0.00	0.008													
2042	604099	4134392	0.23	0.15	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.006	0.001	0.000	0.001	0.000	45-07	65-06	45-07	85-08	85-07	65-08	1.6E-08	1.9E-06	3.2E-08	4.9E-10	1.4E-08	6.8E-10	2.0E-06	1.94	0.00	0.007										
2043	604099	4134392	0.19	0.13	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.005	0.001	0.000	0.001	0.000	35-07	55-06	35-07	75-08	75-07	45-08	1.3E-08	1.6E-06	2.6E-08	8.0E-10	2.5E-08	1.2E-09	1.6E-06	1.64	0.00	0.006										
2044	604069	4134392	0.16	0.11	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.004	0.000	0.000	0.001	0.000	35-07	45-06	35-07	65-08	65-07	45-08	1.1E-08	1.4E-06	2.3E-08	7.0E-10	2.1E-08	1.0E-09	1.4E-06	1.41	0.00	0.005										
2045	604099	4134392	0.14	0.10	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.004	0.000	0.000	0.001	0.000	35-07	45-06	35-07	55-08	55-07	35-08	9.0E-09	1.1E-06	1.9E-08	6.0E-10	1.9E-08	8.3E-10	1.2E-06	1.23	0.00	0.004										
2046	604109	4134392	0.13	0.08	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.003	0.000	0.000	0.001	0.000	55-07	65-06	55-07	95-08	95-07	65-08	8.0E-09	1.0E-06	1.8E-08	5.0E-10	1.5E-08	6.3E-10	1.1E-06	1.09	0.00	0.004										
2065	603899	4134412	0.14	0.12	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.004	0.000	0.000	0.001	0.000	25-07	45-06	25-07	65-08	65-07	45-08	9.8E-09	1.2E-06	1.9E-08	7.4E-10	2.3E-08	1.1E-09	1.2E-06	1.23	0.00	0.004										
2066	604029	4134412	0.21	0.14	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.005	0.001	0.000	0.001	0.000	45-07	55-06	45-07	75-08	75-07	45-08	1.4E-08	1.7E-06	2.8E-08	8.5E-10	2.6E-08	1.2E-09														

**Eastridge BART HRA**  
CONSTRUCTION - ASSUMES 3RD TRI EXPOSURE STARTS DAY 1 OF GUIDEWAY CONSTRUCTION, JULY 2020

only >1

RecID	X	Y	AERMOD concentration ug/m3 (unitized lb/hr)		Receptor Type	Scaling factor (lb/hr)									Scaled Concentration ug/m3									Dose Inhalation by Bin									Cancer Risk									Sum of Risk	Cases Per Million	Chl HI	Annual PM2.5 conc
						Guideway			All Else			Guideway			All Else			Guideway			All Else			Guideway			All Else																		
			Guideway	All Else		3rd tri	O<2	2<9	3rd tri	O<2	2<9	3rd tri	O<2	2<9	3rd tri	O<2	2<9	3rd tri	O<2	2<9	3rd tri	O<2	2<9	3rd tri	O<2	2<9	3rd tri	O<2	2<9	3rd tri	O<2	2<9													
2402	603890.10	4134672.20	0.19	0.18	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.005	0.001	0.000	0.001	0.000	35.07	55.06	35.07	15.07	15.06	65.08	1.32E-08	1.65E-08	2.65E-08	1.11E-09	3.55E-09	1.65E-09	1.75E-09	1.65	0.00	0.006												
2403	603890.10	4134672.20	0.14	0.13	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.004	0.000	0.000	0.001	0.000	35.07	45.06	35.07	15.07	15.06	55.08	1.11E-08	1.35E-08	2.15E-08	9.45E-10	3.05E-09	1.45E-09	1.45E-09	1.35	0.00	0.005												
2404	603890.10	4134672.20	0.14	0.13	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.003	0.000	0.000	0.001	0.000	25.07	45.06	25.07	15.07	15.06	45.08	9.45E-09	1.15E-08	1.85E-08	7.85E-10	2.55E-09	1.25E-09	1.25E-09	1.15	0.00	0.004												
2405	603929.10	4134672.20	0.12	0.11	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.003	0.000	0.000	0.001	0.000	25.07	35.06	25.07	15.08	15.07	45.08	8.25E-09	9.85E-09	1.65E-08	6.75E-10	2.15E-09	9.85E-10	1.05E-09	1.05	0.00	0.004												
2430	603792.10	4134592.20	0.17	0.16	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.004	0.000	0.000	0.001	0.000	35.07	45.06	25.07	15.07	15.06	55.08	1.05E-08	1.35E-08	2.15E-08	1.05E-09	3.45E-09	1.65E-09	1.65E-09	1.55	0.00	0.005												
2431	603899.10	4134592.20	0.25	0.24	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.002	0.009	0.001	0.001	0.002	0.000	65.07	95.06	65.07	25.07	25.06	15.07	2.45E-08	2.95E-08	4.85E-08	2.15E-09	6.55E-09	3.05E-09	3.05E-09	2.75	0.00	0.011												
2432	603899.10	4134592.20	0.25	0.24	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.007	0.001	0.001	0.002	0.000	55.07	75.06	45.07	15.07	15.06	75.08	1.85E-08	2.25E-08	3.65E-08	1.65E-09	4.95E-09	2.35E-09	2.35E-09	2.25	0.00	0.008												
2433	603849.10	4134592.20	0.21	0.20	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.005	0.001	0.001	0.001	0.000	45.07	55.06	45.07	15.07	15.06	75.08	1.45E-08	1.75E-08	2.85E-08	1.25E-09	3.85E-09	1.85E-09	1.85E-09	1.80	0.00	0.006												
2434	603899.10	4134592.20	0.17	0.16	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.004	0.000	0.000	0.001	0.000	35.07	55.06	35.07	15.08	15.07	55.08	1.25E-08	1.45E-08	2.35E-08	9.85E-10	3.15E-09	1.55E-09	1.55E-09	1.45	0.00	0.005												
2435	603899.10	4134592.20	0.15	0.13	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.004	0.000	0.000	0.001	0.000	35.07	45.06	25.07	15.08	15.07	55.08	1.05E-08	1.25E-08	2.05E-08	8.15E-10	2.75E-09	1.35E-09	1.35E-09	1.25	0.00	0.004												
2436	603909.10	4134592.20	0.13	0.11	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.003	0.000	0.000	0.001	0.000	25.07	35.06	25.07	15.08	15.07	45.08	8.65E-09	1.05E-08	1.75E-08	7.15E-10	2.25E-09	1.15E-09	1.15E-09	1.08	0.00	0.004												
2459	603709.10	4134712.20	0.18	0.24	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.004	0.000	0.000	0.001	0.000	35.07	55.06	35.07	15.07	15.06	65.08	1.25E-08	1.55E-08	2.45E-08	1.55E-09	4.65E-09	2.25E-09	1.55E-09	1.54	0.00	0.006												
2460	603809.10	4134712.20	0.29	0.28	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.007	0.001	0.001	0.002	0.000	55.07	85.06	55.07	15.07	15.06	15.07	2.05E-08	2.45E-08	4.05E-08	1.85E-09	5.45E-09	2.55E-09	2.55E-09	2.55	0.00	0.009												
2461	603829.10	4134712.20	0.23	0.21	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.006	0.001	0.001	0.001	0.000	45.07	65.06	45.07	15.07	15.06	75.08	1.65E-08	1.95E-08	3.15E-08	1.35E-09	4.25E-09	2.05E-09	1.95E-09	1.95	0.00	0.007												
2462	603849.10	4134712.20	0.19	0.17	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.005	0.001	0.001	0.001	0.000	35.07	55.06	35.07	15.08	15.06	65.08	1.35E-08	1.55E-08	2.55E-08	1.15E-09	3.35E-09	1.65E-09	1.65E-09	1.60	0.00	0.006												
2463	603869.10	4134712.20	0.16	0.14	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.004	0.000	0.000	0.001	0.000	35.07	45.06	35.07	15.08	15.07	55.08	1.15E-08	1.35E-08	2.15E-08	8.85E-10	2.75E-09	1.35E-09	1.35E-09	1.34	0.00	0.005												
2464	603889.10	4134712.20	0.13	0.12	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.003	0.000	0.000	0.001	0.000	25.07	35.06	25.07	15.08	15.07	45.08	9.15E-09	1.15E-08	1.95E-08	7.55E-10	2.35E-09	1.15E-09	1.15E-09	1.14	0.00	0.004												
2488	603669.10	4134732.20	0.12	0.13	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.003	0.000	0.000	0.001	0.000	25.07	35.06	25.07	15.08	15.07	45.08	8.15E-09	9.65E-09	1.65E-08	8.15E-10	2.55E-09	1.25E-09	1.25E-09	1.02	0.00	0.004												
2489	603689.10	4134732.20	0.16	0.19	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.004	0.000	0.000	0.001	0.000	35.07	45.06	35.07	15.07	15.06	75.08	1.15E-08	1.35E-08	2.15E-08	1.25E-09	3.85E-09	1.95E-09	1.95E-09	1.85	0.00	0.005												
2490	603809.10	4134732.20	0.25	0.23	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.006	0.001	0.001	0.001	0.000	45.07	75.06	45.07	15.07	15.06	85.08	1.75E-08	2.15E-08	3.45E-08	1.55E-09	4.65E-09	2.25E-09	2.25E-09	2.18	0.00	0.008												
2491	603829.10	4134732.20	0.20	0.18	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.005	0.001	0.001	0.001	0.000	45.07	55.06	35.07	15.07	15.06	65.08	1.45E-08	1.75E-08	2.75E-08	1.25E-09	3.65E-09	1.75E-09	1.75E-09	1.73	0.00	0.006												
2492	603849.10	4134732.20	0.17	0.15	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.004	0.000	0.000	0.001	0.000	35.07	45.06	35.07	15.08	15.07	55.08	1.15E-08	1.45E-08	2.35E-08	9.45E-10	2.95E-09	1.45E-09	1.45E-09	1.43	0.00	0.005												
2493	603869.10	4134732.20	0.14	0.12	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.003	0.000	0.000	0.001	0.000	25.07	45.06	25.07	15.08	15.07	45.08	9.65E-09	1.25E-08	1.95E-08	7.95E-10	2.45E-09	1.15E-09	1.15E-09	1.25	0.00	0.004												
2494	603889.10	4134732.20	0.12	0.11	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.003	0.000	0.000	0.001	0.000	25.07	35.06	25.07	15.08	15.07	45.08	8.35E-09	1.05E-08	1.95E-08	6.75E-10	2.15E-09	9.85E-10	1.05E-09	1.04	0.00	0.004												
2509	603669.10	4134752.20	0.14	0.16	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.003	0.000	0.000	0.001	0.000	25.07	45.06	25.07	15.08	15.06	55.08	9.95E-09	1.15E-08	1.95E-08	1.05E-09	3.15E-09	1.55E-09	1.55E-09	1.70	0.00	0.004												
2520	603869.10	4134752.20	0.19	0.20	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.005	0.001	0.001	0.002	0.000	35.07	55.06	35.07	15.07	15.06	65.08	1.35E-08	1.65E-08	2.65E-08	1.15E-09	3.25E-09	1.65E-09	1.65E-09	1.53	0.00	0.006												
2521	603899.10	4134752.20	0.19	0.20	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.004	0.000	0.000	0.001	0.000	35.07	55.06	35.07	15.08	15.07	55.08	1.35E-08	1.65E-08	2.65E-08	1.15E-09	3.25E-09	1.65E-09	1.65E-09	1.53	0.00	0.006												
2522	603849.10	4134752.20	0.15	0.13	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.003	0.000	0.000	0.001	0.000	25.07	45.06	25.07	15.08	15.07	45.08	1.05E-08	1.25E-08	2.05E-08	8.35E-10	2.65E-09	1.35E-09	1.35E-09	1.25	0.00	0.004												
2523	603869.10	4134752.20	0.13	0.11	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.003	0.000	0.000	0.001	0.000	25.07	35.06	25.07	15.08	15.07	45.08	8.75E-09	1.05E-08	1.75E-08	7.05E-10	2.25E-09	1.05E-09	1.15E-09	1.10	0.00	0.004												
2547	603749.10	4134772.20	0.17	0.14	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.003	0.000	0.000	0.001	0.000	25.07	35.06	25.07	15.08	15.07	45.08	8.65E-09	1.05E-08	1.75E-08	6.95E-10	2.25E-09	1.05E-09	1.15E-09	1.07	0.00	0.004												
2549	603789.10	4134772.20	0.24	0.22	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.006	0.001	0.001	0.001	0.000	45.07	65.06	45.07	15.07	15.06	75.08	1.65E-08	1.95E-08	3.15E-08	1.45E-09	4.25E-09	2.05E-09	2.05E-09	2.07	0.00	0.007												
2550	603899.10	4134772.20	0.19	0.17	Residential	0.0051	0.025	0.00																																					



**Eastridge BART HRA**

CONSTRUCTION - ASSUMES 3RD TRI EXPOSURE STARTS DAY 1 OF GUIDEWAY CONSTRUCTION, JULY 2020

only >1

												Cancer Risk															PM2.5						
			Scaling factor (lb/hr)						Scaled Concentration ug/m3						Dose Inhalation by Bin						Cancer Risk by Bin							HI					
Receptors			AERMOD concentration ug/m3 (unitized lb/hr)		Receptor Type	Guideway			All Else			Guideway			All Else			Guideway			All Else			Sum of Risk			Annual PM2.5 conc						
Rec ID	X	Y	Guideway	All Else		3rd tri	0<2	2<9	3rd tri	0<2	2<9	3rd tri	0<2	2<9	3rd tri	0<2	2<9	3rd tri	0<2	2<9	3rd tri	0<2	2<9	3rd tri	0<2	2<9		3rd tri	0<2	2<9	Summed Risk	Cases Per Million	Chr HI
2951	603609.10	4135032.20	0.19	0.13	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.005	0.001	0.000	0.001	0.000	3E-07	5E-06	3E-07	7E-08	8E-07	5E-08	1.3E-08	1.5E-06	2.5E-08	8.4E-10	2.6E-08	1.2E-09	1.6E-06	1.60	0.00	0.005
2952	603609.10	4135052.20	0.13	0.11	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.003	0.000	0.000	0.001	0.000	2E-07	4E-06	2E-07	6E-08	7E-07	4E-08	9.2E-09	1.1E-06	1.8E-08	6.6E-10	2.1E-08	9.7E-10	1.2E-06	1.15	0.00	0.004
2975	603509.10	4135052.20	0.15	0.14	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.004	0.000	0.000	0.001	0.000	3E-07	4E-06	3E-07	8E-08	9E-07	5E-08	1.1E-08	1.3E-06	2.1E-08	9.0E-10	2.8E-08	1.3E-09	1.3E-06	1.33	0.00	0.005
2976	603509.10	4135052.20	0.17	0.20	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.004	0.000	0.000	0.001	0.000	3E-07	5E-06	3E-07	1E-07	1E-06	7E-08	1.2E-08	1.4E-06	2.4E-08	1.3E-09	4.0E-08	1.9E-09	1.5E-06	1.52	0.00	0.006
2977	603509.10	4135052.20	0.14	0.15	Residential	0.0051	0.025	0.003	0.002	0.006	0.001	0.001	0.003	0.000	0.000	0.001	0.000	2E-07	4E-06	2E-07	8E-08	9E-07	5E-08	9.2E-09	1.1E-06	1.8E-08	6.6E-10	2.1E-08	1.4E-09	1.2E-06	1.18	0.00	0.004

Eastridge\_BART

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\*\* AERMOD Input Produced by:  
\*\* AERMOD View Ver. 9.6.0  
\*\* Lakes Environmental Software Inc.  
\*\* Date: 9/7/2018  
\*\* File: C:\Lakes\AERMOD View\Eastridge\_BART\Eastridge\_BART.ADI

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\*\* AERMOD Control Pathway  
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CO STARTING  
TITLEONE Eastridge to Bart Extension HRA  
TITLETWO Cancer, chronic, and annual PM2.5 - unitized emissions - 5 years met  
MODELOPT DFAULT CONC  
AVERTIME ANNUAL  
URBANOPT 1865450  
POLLUTID OTHER  
FLAGPOLE 1.50  
RUNORNOT RUN  
ERRORFIL AERMOD.ERR

CO FINISHED

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\*\* AERMOD Source Pathway  
\*\*\*\*\*

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SO STARTING  
\*\* Source Location \*\*  
\*\* Source ID - Type - X Coord. - Y Coord. \*\*  
LOCATION GDWY AREAPOLY 605196.496 4132195.130 0.0  
\*\* DESCRSRC Guideway Area  
LOCATION ALLELSE AREAPOLY 605440.511 4131846.320 0.0  
\*\* DESCRSRC Guideway Area  
\*\* Source Parameters \*\*  
SRCPARAM GDWY 3.827E-06 5.000 48 2.300  
AREAVERT GDWY 605196.496 4132195.130 605069.280 4132421.028  
AREAVERT GDWY 605022.036 4132533.233 604964.457 4132646.915  
AREAVERT GDWY 604883.750 4132787.171 604768.375 4132987.839  
AREAVERT GDWY 604768.006 4132988.480 604694.273 4133098.188  
AREAVERT GDWY 604649.988 4133145.932 604595.048 4133213.823

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AREAVERT GDWY	604553.013	4133277.524	604521.543	4133327.527
AREAVERT GDWY	604370.952	4133594.752	604297.132	4133724.674
AREAVERT GDWY	604141.961	4133990.794	604047.841	4134156.445
AREAVERT GDWY	603942.427	4134349.704	603852.072	4134550.492
AREAVERT GDWY	603740.383	4134746.261	603640.648	4134896.378
AREAVERT GDWY	603605.621	4134948.149	603545.869	4135053.719
AREAVERT GDWY	603534.575	4135046.190	603603.037	4134935.741
AREAVERT GDWY	603639.989	4134880.539	603729.089	4134748.771
AREAVERT GDWY	603813.169	4134604.454	603869.641	4134478.961
AREAVERT GDWY	603922.348	4134357.233	603944.937	4134315.821
AREAVERT GDWY	603990.114	4134239.270	604057.880	4134115.032
AREAVERT GDWY	604130.666	4133989.539	604208.472	4133857.771
AREAVERT GDWY	604321.416	4133655.728	604409.168	4133508.518
AREAVERT GDWY	604455.693	4133428.585	604512.165	4133329.446
AREAVERT GDWY	604542.283	4133271.719	604617.884	4133173.267
AREAVERT GDWY	604723.240	4133043.816	604797.615	4132919.204
AREAVERT GDWY	604893.644	4132751.912	604970.214	4132621.666
AREAVERT GDWY	605021.666	4132507.467	605068.099	4132404.563
AREAVERT GDWY	605130.084	4132290.859	605188.572	4132191.492
SRCPARAM ALLELSE	7.5066E-07	5.000	59	2.300
AREAVERT ALLELSE	605440.511	4131846.320	605364.493	4131983.995
AREAVERT ALLELSE	605287.849	4132113.157	605199.913	4132292.342
AREAVERT ALLELSE	605223.381	4132316.243	605207.379	4132337.573
AREAVERT ALLELSE	605184.965	4132317.295	604992.450	4132624.062
AREAVERT ALLELSE	604760.372	4133015.694	604557.303	4133286.452
AREAVERT ALLELSE	604494.448	4133397.656	604136.283	4134011.508
AREAVERT ALLELSE	603899.703	4134455.857	603830.100	4134616.800
AREAVERT ALLELSE	603703.917	4134829.280	603608.769	4134941.806
AREAVERT ALLELSE	603551.634	4135042.925	603474.738	4135177.390
AREAVERT ALLELSE	603449.109	4135164.694	603537.565	4135028.724
AREAVERT ALLELSE	603537.922	4135027.253	603559.846	4134977.404
AREAVERT ALLELSE	603588.089	4134926.766	603613.695	4134887.894
AREAVERT ALLELSE	603645.132	4134835.560	603695.599	4134747.016
AREAVERT ALLELSE	603756.336	4134653.394	603823.331	4134527.452
AREAVERT ALLELSE	603851.131	4134470.054	603859.661	4134443.970
AREAVERT ALLELSE	603898.504	4134352.402	603964.179	4134237.764
AREAVERT ALLELSE	604005.130	4134164.253	604078.328	4134033.789
AREAVERT ALLELSE	604134.647	4133932.800	604286.245	4133671.709
AREAVERT ALLELSE	604335.421	4133592.954	604437.612	4133412.175
AREAVERT ALLELSE	604469.590	4133353.512	604485.161	4133321.424
AREAVERT ALLELSE	604490.536	4133310.829	604498.600	4133291.922
AREAVERT ALLELSE	604583.110	4133178.080	604668.782	4133077.802
AREAVERT ALLELSE	604717.218	4133005.422	604753.368	4132941.578
AREAVERT ALLELSE	604783.603	4132886.905	604830.248	4132809.509
AREAVERT ALLELSE	604897.545	4132688.548	604987.878	4132538.767
AREAVERT ALLELSE	605070.545	4132396.857	605137.931	4132267.580
AREAVERT ALLELSE	605127.841	4132254.579	605138.555	4132227.972
AREAVERT ALLELSE	605152.948	4132240.945	605184.292	4132196.369

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AREAVERT ALLELSE 605277.809 4132060.102 605335.465 4131954.285
AREAVERT ALLELSE 605403.792 4131834.582
URBANSRC ALL

\*\* Variable Emissions Type: "By Hour / Day (HRDOW)"

\*\* Variable Emission Scenario: "Daytime"

\*\* WeekDays:

EMISFACT ALLELSE HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT ALLELSE HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT ALLELSE HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT ALLELSE HRDOW 0.0 0.0 0.0 0.0 0.0 0.0

\*\* Saturday:

EMISFACT ALLELSE HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT ALLELSE HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT ALLELSE HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT ALLELSE HRDOW 0.0 0.0 0.0 0.0 0.0 0.0

\*\* Sunday:

EMISFACT ALLELSE HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT ALLELSE HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT ALLELSE HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT ALLELSE HRDOW 0.0 0.0 0.0 0.0 0.0 0.0

\*\* WeekDays:

EMISFACT GDWY HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT GDWY HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT GDWY HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT GDWY HRDOW 0.0 0.0 0.0 0.0 0.0 0.0

\*\* Saturday:

EMISFACT GDWY HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT GDWY HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT GDWY HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT GDWY HRDOW 0.0 0.0 0.0 0.0 0.0 0.0

\*\* Sunday:

EMISFACT GDWY HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT GDWY HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT GDWY HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT GDWY HRDOW 0.0 0.0 0.0 0.0 0.0 0.0

SRCGROUP GDWY GDWY
SRCGROUP ALLELSE ALLELSE
SRCGROUP ALL

SO FINISHED

\*\*

\*\*\*\*\*

\*\* AERMOD Receptor Pathway

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\*\*

\*\*

RE STARTING

\*\* DESCRREC "" ""

Eastridge\_BART

	DISCCART	604148.90	4134177.70	0.00	0.00	0.00
**	DESCRREC	"School"	"Ryan Elementary"			
	DISCCART	604070.50	4134301.60	0.00	0.00	0.00
**	DESCRREC	""	""			
	DISCCART	604228.50	4134439.70	0.00	0.00	0.00
	DISCCART	604326.20	4134268.90	0.00	0.00	0.00
**	DESCRREC	"Rec2"	"RagingWaters"			
	DISCCART	605118.40	4132499.40	0.00	0.00	0.00
	DISCCART	604794.10	4133004.40	0.00	0.00	0.00
	DISCCART	605759.80	4133407.60	0.00	0.00	0.00
	DISCCART	606204.20	4132800.20	0.00	0.00	0.00
**	DESCRREC	""	""			
	DISCCART	604002.40	4134033.70	0.00	0.00	0.00
	DISCCART	604029.90	4133988.40	0.00	0.00	0.00
	DISCCART	603946.00	4133926.80	0.00	0.00	0.00
	DISCCART	603918.20	4133960.90	0.00	0.00	0.00
	DISCCART	605649.10	4131512.20	0.00	0.00	0.00
	DISCCART	605629.10	4131552.20	0.00	0.00	0.00
	DISCCART	605629.10	4131572.20	0.00	0.00	0.00
	DISCCART	605649.10	4131572.20	0.00	0.00	0.00
	DISCCART	605629.10	4131592.20	0.00	0.00	0.00
	DISCCART	605649.10	4131592.20	0.00	0.00	0.00
	DISCCART	605629.10	4131612.20	0.00	0.00	0.00
	DISCCART	605649.10	4131612.20	0.00	0.00	0.00
	DISCCART	605609.10	4131632.20	0.00	0.00	0.00
	DISCCART	605629.10	4131632.20	0.00	0.00	0.00
	DISCCART	605649.10	4131632.20	0.00	0.00	0.00
	DISCCART	605669.10	4131632.20	0.00	0.00	0.00
	DISCCART	605609.10	4131652.20	0.00	0.00	0.00
	DISCCART	605629.10	4131652.20	0.00	0.00	0.00
	DISCCART	605669.10	4131652.20	0.00	0.00	0.00
	DISCCART	605689.10	4131652.20	0.00	0.00	0.00
	DISCCART	605709.10	4131652.20	0.00	0.00	0.00
	DISCCART	605609.10	4131672.20	0.00	0.00	0.00
	DISCCART	605629.10	4131672.20	0.00	0.00	0.00
	DISCCART	605689.10	4131672.20	0.00	0.00	0.00
	DISCCART	605589.10	4131692.20	0.00	0.00	0.00
	DISCCART	605609.10	4131692.20	0.00	0.00	0.00
	DISCCART	605629.10	4131692.20	0.00	0.00	0.00
	DISCCART	605649.10	4131692.20	0.00	0.00	0.00
	DISCCART	605669.10	4131692.20	0.00	0.00	0.00
	DISCCART	605689.10	4131692.20	0.00	0.00	0.00
	DISCCART	605589.10	4131712.20	0.00	0.00	0.00
	DISCCART	605609.10	4131712.20	0.00	0.00	0.00
	DISCCART	605649.10	4131712.20	0.00	0.00	0.00
	DISCCART	605669.10	4131712.20	0.00	0.00	0.00
	DISCCART	605689.10	4131712.20	0.00	0.00	0.00
	DISCCART	605709.10	4131712.20	0.00	0.00	0.00

Eastridge\_BART

DISCCART	605589.10	4131732.20	0.00	0.00	0.00
DISCCART	605609.10	4131732.20	0.00	0.00	0.00
DISCCART	605649.10	4131732.20	0.00	0.00	0.00
DISCCART	605669.10	4131732.20	0.00	0.00	0.00
DISCCART	605689.10	4131732.20	0.00	0.00	0.00
DISCCART	605709.10	4131732.20	0.00	0.00	0.00
DISCCART	605729.10	4131732.20	0.00	0.00	0.00
** DESCRREC	"Rec" "CreekPath"				
DISCCART	605509.10	4131752.20	0.00	0.00	0.00
** DESCRREC	"" ""				
DISCCART	605589.10	4131752.20	0.00	0.00	0.00
DISCCART	605609.10	4131752.20	0.00	0.00	0.00
DISCCART	605629.10	4131752.20	0.00	0.00	0.00
DISCCART	605709.10	4131752.20	0.00	0.00	0.00
DISCCART	605729.10	4131752.20	0.00	0.00	0.00
DISCCART	605489.10	4131772.20	0.00	0.00	0.00
** DESCRREC	"Rec" "CreekPath"				
DISCCART	605509.10	4131772.20	0.00	0.00	0.00
DISCCART	605529.10	4131772.20	0.00	0.00	0.00
DISCCART	605549.10	4131772.20	0.00	0.00	0.00
DISCCART	605569.10	4131772.20	0.00	0.00	0.00
DISCCART	605589.10	4131772.20	0.00	0.00	0.00
DISCCART	605609.10	4131772.20	0.00	0.00	0.00
** DESCRREC	"" ""				
DISCCART	605629.10	4131772.20	0.00	0.00	0.00
DISCCART	605649.10	4131772.20	0.00	0.00	0.00
DISCCART	605669.10	4131772.20	0.00	0.00	0.00
DISCCART	605689.10	4131772.20	0.00	0.00	0.00
** DESCRREC	"Rec" "CreekPath"				
DISCCART	605489.10	4131792.20	0.00	0.00	0.00
DISCCART	605509.10	4131792.20	0.00	0.00	0.00
DISCCART	605529.10	4131792.20	0.00	0.00	0.00
DISCCART	605549.10	4131792.20	0.00	0.00	0.00
DISCCART	605569.10	4131792.20	0.00	0.00	0.00
DISCCART	605589.10	4131792.20	0.00	0.00	0.00
DISCCART	605609.10	4131792.20	0.00	0.00	0.00
DISCCART	605629.10	4131792.20	0.00	0.00	0.00
DISCCART	605649.10	4131792.20	0.00	0.00	0.00
DISCCART	605669.10	4131792.20	0.00	0.00	0.00
DISCCART	605689.10	4131792.20	0.00	0.00	0.00
** DESCRREC	"" ""				
DISCCART	605709.10	4131792.20	0.00	0.00	0.00
DISCCART	605729.10	4131792.20	0.00	0.00	0.00
DISCCART	605749.10	4131792.20	0.00	0.00	0.00
DISCCART	605469.10	4131812.20	0.00	0.00	0.00
** DESCRREC	"Rec" "CreekPath"				
DISCCART	605489.10	4131812.20	0.00	0.00	0.00
DISCCART	605509.10	4131812.20	0.00	0.00	0.00

Eastridge\_BART

DISCCART	605529.10	4131812.20	0.00	0.00	0.00
DISCCART	605549.10	4131812.20	0.00	0.00	0.00
DISCCART	605569.10	4131812.20	0.00	0.00	0.00
DISCCART	605589.10	4131812.20	0.00	0.00	0.00
DISCCART	605609.10	4131812.20	0.00	0.00	0.00
DISCCART	605629.10	4131812.20	0.00	0.00	0.00
DISCCART	605649.10	4131812.20	0.00	0.00	0.00
DISCCART	605669.10	4131812.20	0.00	0.00	0.00
DISCCART	605689.10	4131812.20	0.00	0.00	0.00
DISCCART	605709.10	4131812.20	0.00	0.00	0.00
DISCCART	605729.10	4131812.20	0.00	0.00	0.00
DISCCART	605469.10	4131832.20	0.00	0.00	0.00
DISCCART	605489.10	4131832.20	0.00	0.00	0.00
DISCCART	605509.10	4131832.20	0.00	0.00	0.00
DISCCART	605569.10	4131832.20	0.00	0.00	0.00
DISCCART	605589.10	4131832.20	0.00	0.00	0.00
DISCCART	605609.10	4131832.20	0.00	0.00	0.00
DISCCART	605629.10	4131832.20	0.00	0.00	0.00
DISCCART	605649.10	4131832.20	0.00	0.00	0.00
DISCCART	605669.10	4131832.20	0.00	0.00	0.00
DISCCART	605689.10	4131832.20	0.00	0.00	0.00
DISCCART	605709.10	4131832.20	0.00	0.00	0.00
DISCCART	605729.10	4131832.20	0.00	0.00	0.00
DISCCART	605749.10	4131832.20	0.00	0.00	0.00
DISCCART	605769.10	4131832.20	0.00	0.00	0.00
DISCCART	605789.10	4131832.20	0.00	0.00	0.00
DISCCART	605809.10	4131832.20	0.00	0.00	0.00
** DESCRREC	""	""			
DISCCART	605449.10	4131852.20	0.00	0.00	0.00
** DESCRREC	"Rec"	"CreekPath"			
DISCCART	605469.10	4131852.20	0.00	0.00	0.00
DISCCART	605489.10	4131852.20	0.00	0.00	0.00
DISCCART	605509.10	4131852.20	0.00	0.00	0.00
** DESCRREC	""	""			
DISCCART	605529.10	4131852.20	0.00	0.00	0.00
DISCCART	605549.10	4131852.20	0.00	0.00	0.00
DISCCART	605569.10	4131852.20	0.00	0.00	0.00
DISCCART	605649.10	4131852.20	0.00	0.00	0.00
** DESCRREC	"Rec"	"CreekPath"			
DISCCART	605669.10	4131852.20	0.00	0.00	0.00
DISCCART	605689.10	4131852.20	0.00	0.00	0.00
DISCCART	605709.10	4131852.20	0.00	0.00	0.00
DISCCART	605729.10	4131852.20	0.00	0.00	0.00
DISCCART	605769.10	4131852.20	0.00	0.00	0.00
DISCCART	605789.10	4131852.20	0.00	0.00	0.00
DISCCART	605809.10	4131852.20	0.00	0.00	0.00
DISCCART	605829.10	4131852.20	0.00	0.00	0.00
DISCCART	605849.10	4131852.20	0.00	0.00	0.00

Eastridge\_BART

DISCCART	605869.10	4131852.20	0.00	0.00	0.00
DISCCART	605889.10	4131852.20	0.00	0.00	0.00
DISCCART	605449.10	4131872.20	0.00	0.00	0.00
DISCCART	605469.10	4131872.20	0.00	0.00	0.00
DISCCART	605489.10	4131872.20	0.00	0.00	0.00
** DESCRREC	""	""			
DISCCART	605529.10	4131872.20	0.00	0.00	0.00
DISCCART	605549.10	4131872.20	0.00	0.00	0.00
DISCCART	605569.10	4131872.20	0.00	0.00	0.00
DISCCART	605589.10	4131872.20	0.00	0.00	0.00
DISCCART	605609.10	4131872.20	0.00	0.00	0.00
DISCCART	605629.10	4131872.20	0.00	0.00	0.00
DISCCART	605649.10	4131872.20	0.00	0.00	0.00
DISCCART	605729.10	4131872.20	0.00	0.00	0.00
** DESCRREC	"Rec"	"CreekPath"			
DISCCART	605849.10	4131872.20	0.00	0.00	0.00
DISCCART	605869.10	4131872.20	0.00	0.00	0.00
DISCCART	605889.10	4131872.20	0.00	0.00	0.00
DISCCART	605909.10	4131872.20	0.00	0.00	0.00
DISCCART	605929.10	4131872.20	0.00	0.00	0.00
DISCCART	605949.10	4131872.20	0.00	0.00	0.00
** DESCRREC	""	""			
DISCCART	605429.10	4131892.20	0.00	0.00	0.00
** DESCRREC	"Rec"	"CreekPath"			
DISCCART	605449.10	4131892.20	0.00	0.00	0.00
DISCCART	605469.10	4131892.20	0.00	0.00	0.00
DISCCART	605489.10	4131892.20	0.00	0.00	0.00
** DESCRREC	""	""			
DISCCART	605529.10	4131892.20	0.00	0.00	0.00
DISCCART	605549.10	4131892.20	0.00	0.00	0.00
DISCCART	605569.10	4131892.20	0.00	0.00	0.00
DISCCART	605589.10	4131892.20	0.00	0.00	0.00
DISCCART	605609.10	4131892.20	0.00	0.00	0.00
DISCCART	605629.10	4131892.20	0.00	0.00	0.00
DISCCART	605649.10	4131892.20	0.00	0.00	0.00
DISCCART	605669.10	4131892.20	0.00	0.00	0.00
DISCCART	605689.10	4131892.20	0.00	0.00	0.00
DISCCART	605709.10	4131892.20	0.00	0.00	0.00
** DESCRREC	"Rec"	"CreekPath"			
DISCCART	605929.10	4131892.20	0.00	0.00	0.00
DISCCART	605949.10	4131892.20	0.00	0.00	0.00
DISCCART	605969.10	4131892.20	0.00	0.00	0.00
DISCCART	605989.10	4131892.20	0.00	0.00	0.00
DISCCART	606009.10	4131892.20	0.00	0.00	0.00
DISCCART	606029.10	4131892.20	0.00	0.00	0.00
DISCCART	605429.10	4131912.20	0.00	0.00	0.00
DISCCART	605449.10	4131912.20	0.00	0.00	0.00
DISCCART	605469.10	4131912.20	0.00	0.00	0.00



Eastridge\_BART

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** DESCRREC "" ""
DISCCART 605509.10 4131912.20 0.00 0.00 0.00
DISCCART 605569.10 4131912.20 0.00 0.00 0.00
DISCCART 605589.10 4131912.20 0.00 0.00 0.00
DISCCART 605609.10 4131912.20 0.00 0.00 0.00
DISCCART 605629.10 4131912.20 0.00 0.00 0.00
DISCCART 605649.10 4131912.20 0.00 0.00 0.00
DISCCART 605669.10 4131912.20 0.00 0.00 0.00
DISCCART 605689.10 4131912.20 0.00 0.00 0.00
DISCCART 605709.10 4131912.20 0.00 0.00 0.00
** DESCRREC "Rec" "CreekPath"
DISCCART 606009.10 4131912.20 0.00 0.00 0.00
DISCCART 606029.10 4131912.20 0.00 0.00 0.00
DISCCART 606049.10 4131912.20 0.00 0.00 0.00
DISCCART 606069.10 4131912.20 0.00 0.00 0.00
DISCCART 606089.10 4131912.20 0.00 0.00 0.00
DISCCART 606109.10 4131912.20 0.00 0.00 0.00
DISCCART 605409.10 4131932.20 0.00 0.00 0.00
DISCCART 605429.10 4131932.20 0.00 0.00 0.00
DISCCART 605449.10 4131932.20 0.00 0.00 0.00
DISCCART 605469.10 4131932.20 0.00 0.00 0.00
** DESCRREC "" ""
DISCCART 605489.10 4131932.20 0.00 0.00 0.00
DISCCART 605509.10 4131932.20 0.00 0.00 0.00
DISCCART 605529.10 4131932.20 0.00 0.00 0.00
DISCCART 605549.10 4131932.20 0.00 0.00 0.00
DISCCART 605569.10 4131932.20 0.00 0.00 0.00
DISCCART 605649.10 4131932.20 0.00 0.00 0.00
DISCCART 605669.10 4131932.20 0.00 0.00 0.00
DISCCART 605689.10 4131932.20 0.00 0.00 0.00
DISCCART 605709.10 4131932.20 0.00 0.00 0.00
** DESCRREC "Rec" "CreekPath"
DISCCART 606069.10 4131932.20 0.00 0.00 0.00
DISCCART 606089.10 4131932.20 0.00 0.00 0.00
DISCCART 606109.10 4131932.20 0.00 0.00 0.00
DISCCART 606129.10 4131932.20 0.00 0.00 0.00
DISCCART 606149.10 4131932.20 0.00 0.00 0.00
DISCCART 606169.10 4131932.20 0.00 0.00 0.00
DISCCART 605409.10 4131952.20 0.00 0.00 0.00
DISCCART 605429.10 4131952.20 0.00 0.00 0.00
DISCCART 605449.10 4131952.20 0.00 0.00 0.00
** DESCRREC "" ""
DISCCART 605489.10 4131952.20 0.00 0.00 0.00
DISCCART 605509.10 4131952.20 0.00 0.00 0.00
DISCCART 605529.10 4131952.20 0.00 0.00 0.00
DISCCART 605549.10 4131952.20 0.00 0.00 0.00
DISCCART 605569.10 4131952.20 0.00 0.00 0.00
DISCCART 605589.10 4131952.20 0.00 0.00 0.00

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Eastridge\_BART

DISCCART	605609.10	4131952.20	0.00	0.00	0.00
DISCCART	605629.10	4131952.20	0.00	0.00	0.00
DISCCART	605649.10	4131952.20	0.00	0.00	0.00
DISCCART	605669.10	4131952.20	0.00	0.00	0.00
DISCCART	605689.10	4131952.20	0.00	0.00	0.00
DISCCART	605709.10	4131952.20	0.00	0.00	0.00
** DESCRREC	"Rec" "CreekPath"				
DISCCART	606149.10	4131952.20	0.00	0.00	0.00
DISCCART	606169.10	4131952.20	0.00	0.00	0.00
DISCCART	605389.10	4131972.20	0.00	0.00	0.00
DISCCART	605409.10	4131972.20	0.00	0.00	0.00
DISCCART	605429.10	4131972.20	0.00	0.00	0.00
** DESCRREC	" " "				
DISCCART	605449.10	4131972.20	0.00	0.00	0.00
DISCCART	605509.10	4131972.20	0.00	0.00	0.00
DISCCART	605529.10	4131972.20	0.00	0.00	0.00
DISCCART	605549.10	4131972.20	0.00	0.00	0.00
DISCCART	605569.10	4131972.20	0.00	0.00	0.00
DISCCART	605589.10	4131972.20	0.00	0.00	0.00
DISCCART	605609.10	4131972.20	0.00	0.00	0.00
DISCCART	605629.10	4131972.20	0.00	0.00	0.00
DISCCART	605649.10	4131972.20	0.00	0.00	0.00
DISCCART	605669.10	4131972.20	0.00	0.00	0.00
DISCCART	605689.10	4131972.20	0.00	0.00	0.00
DISCCART	605369.10	4131992.20	0.00	0.00	0.00
** DESCRREC	"Rec" "CreekPath"				
DISCCART	605389.10	4131992.20	0.00	0.00	0.00
DISCCART	605409.10	4131992.20	0.00	0.00	0.00
DISCCART	605429.10	4131992.20	0.00	0.00	0.00
** DESCRREC	" " "				
DISCCART	605469.10	4131992.20	0.00	0.00	0.00
DISCCART	605489.10	4131992.20	0.00	0.00	0.00
DISCCART	605569.10	4131992.20	0.00	0.00	0.00
DISCCART	605589.10	4131992.20	0.00	0.00	0.00
DISCCART	605609.10	4131992.20	0.00	0.00	0.00
DISCCART	605629.10	4131992.20	0.00	0.00	0.00
DISCCART	605649.10	4131992.20	0.00	0.00	0.00
DISCCART	605669.10	4131992.20	0.00	0.00	0.00
DISCCART	605689.10	4131992.20	0.00	0.00	0.00
** DESCRREC	"Rec" "CreekPath"				
DISCCART	605369.10	4132012.20	0.00	0.00	0.00
DISCCART	605389.10	4132012.20	0.00	0.00	0.00
DISCCART	605409.10	4132012.20	0.00	0.00	0.00
** DESCRREC	" " "				
DISCCART	605449.10	4132012.20	0.00	0.00	0.00
DISCCART	605469.10	4132012.20	0.00	0.00	0.00
DISCCART	605489.10	4132012.20	0.00	0.00	0.00
DISCCART	605509.10	4132012.20	0.00	0.00	0.00

Eastridge\_BART

	DISCCART	605529.10	4132012.20	0.00	0.00	0.00
	DISCCART	605549.10	4132012.20	0.00	0.00	0.00
	DISCCART	605569.10	4132012.20	0.00	0.00	0.00
	DISCCART	605649.10	4132012.20	0.00	0.00	0.00
	DISCCART	605689.10	4132012.20	0.00	0.00	0.00
**	DESCRREC	"Rec"	"CreekPath"			
	DISCCART	605369.10	4132032.20	0.00	0.00	0.00
	DISCCART	605389.10	4132032.20	0.00	0.00	0.00
	DISCCART	605409.10	4132032.20	0.00	0.00	0.00
**	DESCRREC	""	""			
	DISCCART	605449.10	4132032.20	0.00	0.00	0.00
	DISCCART	605469.10	4132032.20	0.00	0.00	0.00
	DISCCART	605489.10	4132032.20	0.00	0.00	0.00
	DISCCART	605509.10	4132032.20	0.00	0.00	0.00
	DISCCART	605529.10	4132032.20	0.00	0.00	0.00
	DISCCART	605549.10	4132032.20	0.00	0.00	0.00
	DISCCART	605569.10	4132032.20	0.00	0.00	0.00
	DISCCART	605589.10	4132032.20	0.00	0.00	0.00
	DISCCART	605609.10	4132032.20	0.00	0.00	0.00
	DISCCART	605629.10	4132032.20	0.00	0.00	0.00
	DISCCART	605649.10	4132032.20	0.00	0.00	0.00
**	DESCRREC	"Rec"	"CreekPath"			
	DISCCART	605349.10	4132052.20	0.00	0.00	0.00
	DISCCART	605369.10	4132052.20	0.00	0.00	0.00
	DISCCART	605389.10	4132052.20	0.00	0.00	0.00
**	DESCRREC	""	""			
	DISCCART	605429.10	4132052.20	0.00	0.00	0.00
	DISCCART	605509.10	4132052.20	0.00	0.00	0.00
	DISCCART	605529.10	4132052.20	0.00	0.00	0.00
	DISCCART	605549.10	4132052.20	0.00	0.00	0.00
	DISCCART	605569.10	4132052.20	0.00	0.00	0.00
	DISCCART	605589.10	4132052.20	0.00	0.00	0.00
	DISCCART	605609.10	4132052.20	0.00	0.00	0.00
	DISCCART	605629.10	4132052.20	0.00	0.00	0.00
	DISCCART	605649.10	4132052.20	0.00	0.00	0.00
	DISCCART	605329.10	4132072.20	0.00	0.00	0.00
**	DESCRREC	"Rec"	"CreekPath"			
	DISCCART	605349.10	4132072.20	0.00	0.00	0.00
	DISCCART	605369.10	4132072.20	0.00	0.00	0.00
	DISCCART	605389.10	4132072.20	0.00	0.00	0.00
**	DESCRREC	""	""			
	DISCCART	605429.10	4132072.20	0.00	0.00	0.00
	DISCCART	605449.10	4132072.20	0.00	0.00	0.00
	DISCCART	605469.10	4132072.20	0.00	0.00	0.00
	DISCCART	605489.10	4132072.20	0.00	0.00	0.00
	DISCCART	605569.10	4132072.20	0.00	0.00	0.00
	DISCCART	605589.10	4132072.20	0.00	0.00	0.00
	DISCCART	605609.10	4132072.20	0.00	0.00	0.00

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	DISCCART	605629.10	4132072.20	0.00	0.00	0.00
**	DESCRREC	"Rec"	"CreekPath"			
	DISCCART	605329.10	4132092.20	0.00	0.00	0.00
	DISCCART	605349.10	4132092.20	0.00	0.00	0.00
	DISCCART	605369.10	4132092.20	0.00	0.00	0.00
	DISCCART	605389.10	4132092.20	0.00	0.00	0.00
**	DESCRREC	""	""			
	DISCCART	605429.10	4132092.20	0.00	0.00	0.00
	DISCCART	605449.10	4132092.20	0.00	0.00	0.00
	DISCCART	605469.10	4132092.20	0.00	0.00	0.00
	DISCCART	605489.10	4132092.20	0.00	0.00	0.00
	DISCCART	605509.10	4132092.20	0.00	0.00	0.00
	DISCCART	605529.10	4132092.20	0.00	0.00	0.00
	DISCCART	605549.10	4132092.20	0.00	0.00	0.00
	DISCCART	605569.10	4132092.20	0.00	0.00	0.00
**	DESCRREC	"Rec"	"CreekPath"			
	DISCCART	605349.10	4132112.20	0.00	0.00	0.00
	DISCCART	605369.10	4132112.20	0.00	0.00	0.00
	DISCCART	605389.10	4132112.20	0.00	0.00	0.00
**	DESCRREC	""	""			
	DISCCART	605429.10	4132112.20	0.00	0.00	0.00
	DISCCART	605449.10	4132112.20	0.00	0.00	0.00
	DISCCART	605469.10	4132112.20	0.00	0.00	0.00
	DISCCART	605489.10	4132112.20	0.00	0.00	0.00
	DISCCART	605529.10	4132112.20	0.00	0.00	0.00
	DISCCART	605549.10	4132112.20	0.00	0.00	0.00
	DISCCART	605569.10	4132112.20	0.00	0.00	0.00
	DISCCART	605609.10	4132112.20	0.00	0.00	0.00
	DISCCART	605629.10	4132112.20	0.00	0.00	0.00
**	DESCRREC	"Rec"	"CreekPath"			
	DISCCART	605349.10	4132132.20	0.00	0.00	0.00
	DISCCART	605369.10	4132132.20	0.00	0.00	0.00
	DISCCART	605389.10	4132132.20	0.00	0.00	0.00
	DISCCART	605409.10	4132132.20	0.00	0.00	0.00
**	DESCRREC	""	""			
	DISCCART	605429.10	4132132.20	0.00	0.00	0.00
	DISCCART	605449.10	4132132.20	0.00	0.00	0.00
	DISCCART	605469.10	4132132.20	0.00	0.00	0.00
	DISCCART	605489.10	4132132.20	0.00	0.00	0.00
	DISCCART	605529.10	4132132.20	0.00	0.00	0.00
	DISCCART	605549.10	4132132.20	0.00	0.00	0.00
	DISCCART	605569.10	4132132.20	0.00	0.00	0.00
**	DESCRREC	"Rec"	"CreekPath"			
	DISCCART	605369.10	4132152.20	0.00	0.00	0.00
	DISCCART	605389.10	4132152.20	0.00	0.00	0.00
	DISCCART	605409.10	4132152.20	0.00	0.00	0.00
**	DESCRREC	""	""			
	DISCCART	605449.10	4132152.20	0.00	0.00	0.00

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DISCCART	605469.10	4132152.20	0.00	0.00	0.00
DISCCART	605489.10	4132152.20	0.00	0.00	0.00
DISCCART	605509.10	4132152.20	0.00	0.00	0.00
DISCCART	605529.10	4132152.20	0.00	0.00	0.00
DISCCART	605549.10	4132152.20	0.00	0.00	0.00
DISCCART	605569.10	4132152.20	0.00	0.00	0.00
** DESCRREC	"Rec" "CreekPath"				
DISCCART	605369.10	4132172.20	0.00	0.00	0.00
DISCCART	605389.10	4132172.20	0.00	0.00	0.00
DISCCART	605409.10	4132172.20	0.00	0.00	0.00
DISCCART	605429.10	4132172.20	0.00	0.00	0.00
** DESCRREC	"" ""				
DISCCART	605449.10	4132172.20	0.00	0.00	0.00
DISCCART	605469.10	4132172.20	0.00	0.00	0.00
DISCCART	605489.10	4132172.20	0.00	0.00	0.00
DISCCART	605509.10	4132172.20	0.00	0.00	0.00
DISCCART	605529.10	4132172.20	0.00	0.00	0.00
DISCCART	605549.10	4132172.20	0.00	0.00	0.00
DISCCART	605569.10	4132172.20	0.00	0.00	0.00
** DESCRREC	"Rec" "CreekPath"				
DISCCART	605389.10	4132192.20	0.00	0.00	0.00
DISCCART	605409.10	4132192.20	0.00	0.00	0.00
DISCCART	605429.10	4132192.20	0.00	0.00	0.00
** DESCRREC	"" ""				
DISCCART	605469.10	4132192.20	0.00	0.00	0.00
DISCCART	605489.10	4132192.20	0.00	0.00	0.00
DISCCART	605509.10	4132192.20	0.00	0.00	0.00
DISCCART	605529.10	4132192.20	0.00	0.00	0.00
DISCCART	605549.10	4132192.20	0.00	0.00	0.00
DISCCART	605569.10	4132192.20	0.00	0.00	0.00
** DESCRREC	"Rec" "CreekPath"				
DISCCART	605389.10	4132212.20	0.00	0.00	0.00
DISCCART	605409.10	4132212.20	0.00	0.00	0.00
DISCCART	605429.10	4132212.20	0.00	0.00	0.00
** DESCRREC	"" ""				
DISCCART	605469.10	4132212.20	0.00	0.00	0.00
DISCCART	605489.10	4132212.20	0.00	0.00	0.00
DISCCART	605509.10	4132212.20	0.00	0.00	0.00
DISCCART	605529.10	4132212.20	0.00	0.00	0.00
DISCCART	605549.10	4132212.20	0.00	0.00	0.00
DISCCART	605569.10	4132212.20	0.00	0.00	0.00
** DESCRREC	"Rec" "CreekPath"				
DISCCART	605409.10	4132232.20	0.00	0.00	0.00
DISCCART	605429.10	4132232.20	0.00	0.00	0.00
DISCCART	605449.10	4132232.20	0.00	0.00	0.00
** DESCRREC	"" ""				
DISCCART	605469.10	4132232.20	0.00	0.00	0.00
DISCCART	605489.10	4132232.20	0.00	0.00	0.00

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	DISCCART	605509.10	4132232.20	0.00	0.00	0.00
	DISCCART	605529.10	4132232.20	0.00	0.00	0.00
**	DESCRREC	"Rec" "CreekPath"				
	DISCCART	605409.10	4132252.20	0.00	0.00	0.00
	DISCCART	605429.10	4132252.20	0.00	0.00	0.00
	DISCCART	605449.10	4132252.20	0.00	0.00	0.00
**	DESCRREC	"" ""				
	DISCCART	605489.10	4132252.20	0.00	0.00	0.00
	DISCCART	605509.10	4132252.20	0.00	0.00	0.00
**	DESCRREC	"Rec" "CreekPath"				
	DISCCART	605409.10	4132272.20	0.00	0.00	0.00
	DISCCART	605429.10	4132272.20	0.00	0.00	0.00
	DISCCART	605449.10	4132272.20	0.00	0.00	0.00
**	DESCRREC	"" ""				
	DISCCART	605489.10	4132272.20	0.00	0.00	0.00
**	DESCRREC	"Rec" "CreekPath"				
	DISCCART	605409.10	4132292.20	0.00	0.00	0.00
	DISCCART	605429.10	4132292.20	0.00	0.00	0.00
	DISCCART	605449.10	4132292.20	0.00	0.00	0.00
**	DESCRREC	"" ""				
	DISCCART	605489.10	4132292.20	0.00	0.00	0.00
**	DESCRREC	"Rec" "CreekPath"				
	DISCCART	605429.10	4132312.20	0.00	0.00	0.00
	DISCCART	605449.10	4132312.20	0.00	0.00	0.00
**	DESCRREC	"" ""				
	DISCCART	605489.10	4132312.20	0.00	0.00	0.00
**	DESCRREC	"Rec" "CreekPath"				
	DISCCART	605429.10	4132332.20	0.00	0.00	0.00
	DISCCART	605449.10	4132332.20	0.00	0.00	0.00
	DISCCART	605429.10	4132352.20	0.00	0.00	0.00
	DISCCART	605449.10	4132352.20	0.00	0.00	0.00
	DISCCART	605469.10	4132352.20	0.00	0.00	0.00
	DISCCART	605409.10	4132372.20	0.00	0.00	0.00
	DISCCART	605429.10	4132372.20	0.00	0.00	0.00
	DISCCART	605449.10	4132372.20	0.00	0.00	0.00
	DISCCART	605409.10	4132392.20	0.00	0.00	0.00
	DISCCART	605429.10	4132392.20	0.00	0.00	0.00
	DISCCART	605449.10	4132392.20	0.00	0.00	0.00
	DISCCART	605409.10	4132412.20	0.00	0.00	0.00
	DISCCART	605429.10	4132412.20	0.00	0.00	0.00
	DISCCART	605449.10	4132412.20	0.00	0.00	0.00
	DISCCART	605409.10	4132432.20	0.00	0.00	0.00
	DISCCART	605429.10	4132432.20	0.00	0.00	0.00
	DISCCART	605449.10	4132432.20	0.00	0.00	0.00
	DISCCART	605409.10	4132452.20	0.00	0.00	0.00
	DISCCART	605429.10	4132452.20	0.00	0.00	0.00
**	DESCRREC	"" ""				
	DISCCART	604769.10	4133032.20	0.00	0.00	0.00

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DISCCART	604789.10	4133032.20	0.00	0.00	0.00
DISCCART	604769.10	4133052.20	0.00	0.00	0.00
DISCCART	604789.10	4133052.20	0.00	0.00	0.00
DISCCART	604829.10	4133052.20	0.00	0.00	0.00
DISCCART	604749.10	4133072.20	0.00	0.00	0.00
DISCCART	604769.10	4133072.20	0.00	0.00	0.00
DISCCART	604809.10	4133072.20	0.00	0.00	0.00
DISCCART	604829.10	4133072.20	0.00	0.00	0.00
DISCCART	604849.10	4133072.20	0.00	0.00	0.00
DISCCART	604869.10	4133072.20	0.00	0.00	0.00
DISCCART	604889.10	4133072.20	0.00	0.00	0.00
DISCCART	604729.10	4133092.20	0.00	0.00	0.00
DISCCART	604749.10	4133092.20	0.00	0.00	0.00
DISCCART	604769.10	4133092.20	0.00	0.00	0.00
DISCCART	604809.10	4133092.20	0.00	0.00	0.00
DISCCART	604829.10	4133092.20	0.00	0.00	0.00
DISCCART	604849.10	4133092.20	0.00	0.00	0.00
DISCCART	604869.10	4133092.20	0.00	0.00	0.00
DISCCART	604889.10	4133092.20	0.00	0.00	0.00
DISCCART	604909.10	4133092.20	0.00	0.00	0.00
DISCCART	604929.10	4133092.20	0.00	0.00	0.00
DISCCART	604709.10	4133112.20	0.00	0.00	0.00
DISCCART	604729.10	4133112.20	0.00	0.00	0.00
DISCCART	604749.10	4133112.20	0.00	0.00	0.00
DISCCART	604849.10	4133112.20	0.00	0.00	0.00
DISCCART	604869.10	4133112.20	0.00	0.00	0.00
DISCCART	604889.10	4133112.20	0.00	0.00	0.00
DISCCART	604909.10	4133112.20	0.00	0.00	0.00
DISCCART	604929.10	4133112.20	0.00	0.00	0.00
DISCCART	604949.10	4133112.20	0.00	0.00	0.00
DISCCART	604969.10	4133112.20	0.00	0.00	0.00
DISCCART	604689.10	4133132.20	0.00	0.00	0.00
DISCCART	604709.10	4133132.20	0.00	0.00	0.00
DISCCART	604729.10	4133132.20	0.00	0.00	0.00
DISCCART	604769.10	4133132.20	0.00	0.00	0.00
DISCCART	604789.10	4133132.20	0.00	0.00	0.00
DISCCART	604809.10	4133132.20	0.00	0.00	0.00
DISCCART	604829.10	4133132.20	0.00	0.00	0.00
DISCCART	604889.10	4133132.20	0.00	0.00	0.00
DISCCART	604909.10	4133132.20	0.00	0.00	0.00
DISCCART	604929.10	4133132.20	0.00	0.00	0.00
DISCCART	604949.10	4133132.20	0.00	0.00	0.00
DISCCART	604969.10	4133132.20	0.00	0.00	0.00
DISCCART	605009.10	4133132.20	0.00	0.00	0.00
DISCCART	605029.10	4133132.20	0.00	0.00	0.00
DISCCART	604269.10	4133152.20	0.00	0.00	0.00
DISCCART	604689.10	4133152.20	0.00	0.00	0.00
DISCCART	604709.10	4133152.20	0.00	0.00	0.00

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DISCCART	604769.10	4133152.20	0.00	0.00	0.00
DISCCART	604789.10	4133152.20	0.00	0.00	0.00
DISCCART	604809.10	4133152.20	0.00	0.00	0.00
DISCCART	604829.10	4133152.20	0.00	0.00	0.00
DISCCART	604849.10	4133152.20	0.00	0.00	0.00
DISCCART	604869.10	4133152.20	0.00	0.00	0.00
DISCCART	604909.10	4133152.20	0.00	0.00	0.00
DISCCART	604929.10	4133152.20	0.00	0.00	0.00
DISCCART	604949.10	4133152.20	0.00	0.00	0.00
DISCCART	604989.10	4133152.20	0.00	0.00	0.00
DISCCART	605009.10	4133152.20	0.00	0.00	0.00
DISCCART	605029.10	4133152.20	0.00	0.00	0.00
DISCCART	604249.10	4133172.20	0.00	0.00	0.00
DISCCART	604269.10	4133172.20	0.00	0.00	0.00
DISCCART	604289.10	4133172.20	0.00	0.00	0.00
DISCCART	604669.10	4133172.20	0.00	0.00	0.00
DISCCART	604689.10	4133172.20	0.00	0.00	0.00
DISCCART	604709.10	4133172.20	0.00	0.00	0.00
DISCCART	604769.10	4133172.20	0.00	0.00	0.00
DISCCART	604789.10	4133172.20	0.00	0.00	0.00
DISCCART	604809.10	4133172.20	0.00	0.00	0.00
DISCCART	604829.10	4133172.20	0.00	0.00	0.00
DISCCART	604849.10	4133172.20	0.00	0.00	0.00
DISCCART	604869.10	4133172.20	0.00	0.00	0.00
DISCCART	604889.10	4133172.20	0.00	0.00	0.00
DISCCART	604909.10	4133172.20	0.00	0.00	0.00
DISCCART	604929.10	4133172.20	0.00	0.00	0.00
DISCCART	604949.10	4133172.20	0.00	0.00	0.00
DISCCART	604989.10	4133172.20	0.00	0.00	0.00
DISCCART	605009.10	4133172.20	0.00	0.00	0.00
DISCCART	604229.10	4133192.20	0.00	0.00	0.00
DISCCART	604249.10	4133192.20	0.00	0.00	0.00
DISCCART	604269.10	4133192.20	0.00	0.00	0.00
DISCCART	604289.10	4133192.20	0.00	0.00	0.00
DISCCART	604309.10	4133192.20	0.00	0.00	0.00
DISCCART	604649.10	4133192.20	0.00	0.00	0.00
DISCCART	604669.10	4133192.20	0.00	0.00	0.00
DISCCART	604689.10	4133192.20	0.00	0.00	0.00
DISCCART	604709.10	4133192.20	0.00	0.00	0.00
DISCCART	604729.10	4133192.20	0.00	0.00	0.00
DISCCART	604749.10	4133192.20	0.00	0.00	0.00
DISCCART	604769.10	4133192.20	0.00	0.00	0.00
DISCCART	604829.10	4133192.20	0.00	0.00	0.00
DISCCART	604849.10	4133192.20	0.00	0.00	0.00
DISCCART	604869.10	4133192.20	0.00	0.00	0.00
DISCCART	604889.10	4133192.20	0.00	0.00	0.00
DISCCART	604909.10	4133192.20	0.00	0.00	0.00
DISCCART	604929.10	4133192.20	0.00	0.00	0.00



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DISCCART	604249.10	4133212.20	0.00	0.00	0.00
DISCCART	604269.10	4133212.20	0.00	0.00	0.00
DISCCART	604289.10	4133212.20	0.00	0.00	0.00
DISCCART	604309.10	4133212.20	0.00	0.00	0.00
DISCCART	604329.10	4133212.20	0.00	0.00	0.00
DISCCART	604629.10	4133212.20	0.00	0.00	0.00
DISCCART	604649.10	4133212.20	0.00	0.00	0.00
DISCCART	604689.10	4133212.20	0.00	0.00	0.00
DISCCART	604709.10	4133212.20	0.00	0.00	0.00
DISCCART	604729.10	4133212.20	0.00	0.00	0.00
DISCCART	604749.10	4133212.20	0.00	0.00	0.00
DISCCART	604769.10	4133212.20	0.00	0.00	0.00
DISCCART	604789.10	4133212.20	0.00	0.00	0.00
DISCCART	604809.10	4133212.20	0.00	0.00	0.00
DISCCART	604869.10	4133212.20	0.00	0.00	0.00
DISCCART	604889.10	4133212.20	0.00	0.00	0.00
DISCCART	604909.10	4133212.20	0.00	0.00	0.00
DISCCART	604969.10	4133212.20	0.00	0.00	0.00
DISCCART	604989.10	4133212.20	0.00	0.00	0.00
DISCCART	604189.10	4133232.20	0.00	0.00	0.00
DISCCART	604209.10	4133232.20	0.00	0.00	0.00
DISCCART	604229.10	4133232.20	0.00	0.00	0.00
DISCCART	604269.10	4133232.20	0.00	0.00	0.00
DISCCART	604289.10	4133232.20	0.00	0.00	0.00
DISCCART	604309.10	4133232.20	0.00	0.00	0.00
DISCCART	604329.10	4133232.20	0.00	0.00	0.00
DISCCART	604349.10	4133232.20	0.00	0.00	0.00
DISCCART	604609.10	4133232.20	0.00	0.00	0.00
DISCCART	604629.10	4133232.20	0.00	0.00	0.00
DISCCART	604669.10	4133232.20	0.00	0.00	0.00
DISCCART	604689.10	4133232.20	0.00	0.00	0.00
DISCCART	604729.10	4133232.20	0.00	0.00	0.00
DISCCART	604749.10	4133232.20	0.00	0.00	0.00
DISCCART	604769.10	4133232.20	0.00	0.00	0.00
DISCCART	604789.10	4133232.20	0.00	0.00	0.00
DISCCART	604809.10	4133232.20	0.00	0.00	0.00
DISCCART	604829.10	4133232.20	0.00	0.00	0.00
DISCCART	604849.10	4133232.20	0.00	0.00	0.00
DISCCART	604909.10	4133232.20	0.00	0.00	0.00
** DESCRREC	"School2"	"OcalaAcademy"			
DISCCART	604949.10	4133232.20	0.00	0.00	0.00
DISCCART	604969.10	4133232.20	0.00	0.00	0.00
** DESCRREC	""	""			
DISCCART	604189.10	4133252.20	0.00	0.00	0.00
DISCCART	604209.10	4133252.20	0.00	0.00	0.00
DISCCART	604229.10	4133252.20	0.00	0.00	0.00
DISCCART	604249.10	4133252.20	0.00	0.00	0.00
DISCCART	604309.10	4133252.20	0.00	0.00	0.00

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DISCCART	604329.10	4133252.20	0.00	0.00	0.00
DISCCART	604349.10	4133252.20	0.00	0.00	0.00
DISCCART	604369.10	4133252.20	0.00	0.00	0.00
DISCCART	604589.10	4133252.20	0.00	0.00	0.00
DISCCART	604609.10	4133252.20	0.00	0.00	0.00
DISCCART	604649.10	4133252.20	0.00	0.00	0.00
DISCCART	604669.10	4133252.20	0.00	0.00	0.00
DISCCART	604689.10	4133252.20	0.00	0.00	0.00
DISCCART	604709.10	4133252.20	0.00	0.00	0.00
DISCCART	604729.10	4133252.20	0.00	0.00	0.00
DISCCART	604769.10	4133252.20	0.00	0.00	0.00
DISCCART	604789.10	4133252.20	0.00	0.00	0.00
DISCCART	604809.10	4133252.20	0.00	0.00	0.00
DISCCART	604829.10	4133252.20	0.00	0.00	0.00
DISCCART	604849.10	4133252.20	0.00	0.00	0.00
DISCCART	604869.10	4133252.20	0.00	0.00	0.00
DISCCART	604889.10	4133252.20	0.00	0.00	0.00
** DESCRREC	"School2"	"OcalaAcademy"			
DISCCART	604929.10	4133252.20	0.00	0.00	0.00
DISCCART	604949.10	4133252.20	0.00	0.00	0.00
DISCCART	604969.10	4133252.20	0.00	0.00	0.00
DISCCART	604989.10	4133252.20	0.00	0.00	0.00
DISCCART	605009.10	4133252.20	0.00	0.00	0.00
** DESCRREC	" "	" "			
DISCCART	604209.10	4133272.20	0.00	0.00	0.00
DISCCART	604229.10	4133272.20	0.00	0.00	0.00
DISCCART	604249.10	4133272.20	0.00	0.00	0.00
DISCCART	604289.10	4133272.20	0.00	0.00	0.00
DISCCART	604309.10	4133272.20	0.00	0.00	0.00
DISCCART	604329.10	4133272.20	0.00	0.00	0.00
DISCCART	604349.10	4133272.20	0.00	0.00	0.00
DISCCART	604389.10	4133272.20	0.00	0.00	0.00
DISCCART	604409.10	4133272.20	0.00	0.00	0.00
DISCCART	604589.10	4133272.20	0.00	0.00	0.00
DISCCART	604609.10	4133272.20	0.00	0.00	0.00
DISCCART	604669.10	4133272.20	0.00	0.00	0.00
DISCCART	604689.10	4133272.20	0.00	0.00	0.00
DISCCART	604709.10	4133272.20	0.00	0.00	0.00
DISCCART	604729.10	4133272.20	0.00	0.00	0.00
DISCCART	604749.10	4133272.20	0.00	0.00	0.00
DISCCART	604769.10	4133272.20	0.00	0.00	0.00
DISCCART	604809.10	4133272.20	0.00	0.00	0.00
DISCCART	604829.10	4133272.20	0.00	0.00	0.00
DISCCART	604849.10	4133272.20	0.00	0.00	0.00
DISCCART	604869.10	4133272.20	0.00	0.00	0.00
** DESCRREC	"School2"	"OcalaAcademy"			
DISCCART	604909.10	4133272.20	0.00	0.00	0.00
DISCCART	604929.10	4133272.20	0.00	0.00	0.00

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DISCCART	604949.10	4133272.20	0.00	0.00	0.00
DISCCART	604969.10	4133272.20	0.00	0.00	0.00
DISCCART	604989.10	4133272.20	0.00	0.00	0.00
DISCCART	605009.10	4133272.20	0.00	0.00	0.00
DISCCART	605029.10	4133272.20	0.00	0.00	0.00
DISCCART	605049.10	4133272.20	0.00	0.00	0.00
** DESCRREC	""	""			
DISCCART	605069.10	4133272.20	0.00	0.00	0.00
DISCCART	604229.10	4133292.20	0.00	0.00	0.00
DISCCART	604289.10	4133292.20	0.00	0.00	0.00
DISCCART	604309.10	4133292.20	0.00	0.00	0.00
DISCCART	604329.10	4133292.20	0.00	0.00	0.00
DISCCART	604369.10	4133292.20	0.00	0.00	0.00
DISCCART	604389.10	4133292.20	0.00	0.00	0.00
DISCCART	604409.10	4133292.20	0.00	0.00	0.00
DISCCART	604429.10	4133292.20	0.00	0.00	0.00
DISCCART	604569.10	4133292.20	0.00	0.00	0.00
DISCCART	604589.10	4133292.20	0.00	0.00	0.00
DISCCART	604629.10	4133292.20	0.00	0.00	0.00
DISCCART	604649.10	4133292.20	0.00	0.00	0.00
DISCCART	604669.10	4133292.20	0.00	0.00	0.00
DISCCART	604709.10	4133292.20	0.00	0.00	0.00
DISCCART	604729.10	4133292.20	0.00	0.00	0.00
DISCCART	604749.10	4133292.20	0.00	0.00	0.00
DISCCART	604769.10	4133292.20	0.00	0.00	0.00
DISCCART	604809.10	4133292.20	0.00	0.00	0.00
DISCCART	604849.10	4133292.20	0.00	0.00	0.00
** DESCRREC	"School2"	"OcalaAcademy"			
DISCCART	604909.10	4133292.20	0.00	0.00	0.00
DISCCART	604929.10	4133292.20	0.00	0.00	0.00
DISCCART	604949.10	4133292.20	0.00	0.00	0.00
DISCCART	604969.10	4133292.20	0.00	0.00	0.00
DISCCART	604989.10	4133292.20	0.00	0.00	0.00
DISCCART	605009.10	4133292.20	0.00	0.00	0.00
DISCCART	605029.10	4133292.20	0.00	0.00	0.00
DISCCART	605049.10	4133292.20	0.00	0.00	0.00
DISCCART	605069.10	4133292.20	0.00	0.00	0.00
DISCCART	605089.10	4133292.20	0.00	0.00	0.00
DISCCART	605109.10	4133292.20	0.00	0.00	0.00
** DESCRREC	""	""			
DISCCART	604169.10	4133312.20	0.00	0.00	0.00
DISCCART	604189.10	4133312.20	0.00	0.00	0.00
DISCCART	604209.10	4133312.20	0.00	0.00	0.00
DISCCART	604269.10	4133312.20	0.00	0.00	0.00
DISCCART	604289.10	4133312.20	0.00	0.00	0.00
DISCCART	604309.10	4133312.20	0.00	0.00	0.00
DISCCART	604329.10	4133312.20	0.00	0.00	0.00
DISCCART	604369.10	4133312.20	0.00	0.00	0.00

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DISCCART	604389.10	4133312.20	0.00	0.00	0.00
DISCCART	604409.10	4133312.20	0.00	0.00	0.00
DISCCART	604429.10	4133312.20	0.00	0.00	0.00
DISCCART	604449.10	4133312.20	0.00	0.00	0.00
DISCCART	604469.10	4133312.20	0.00	0.00	0.00
DISCCART	604549.10	4133312.20	0.00	0.00	0.00
DISCCART	604569.10	4133312.20	0.00	0.00	0.00
DISCCART	604589.10	4133312.20	0.00	0.00	0.00
DISCCART	604629.10	4133312.20	0.00	0.00	0.00
DISCCART	604649.10	4133312.20	0.00	0.00	0.00
DISCCART	604669.10	4133312.20	0.00	0.00	0.00
DISCCART	604689.10	4133312.20	0.00	0.00	0.00
DISCCART	604709.10	4133312.20	0.00	0.00	0.00
DISCCART	604749.10	4133312.20	0.00	0.00	0.00
DISCCART	604789.10	4133312.20	0.00	0.00	0.00
DISCCART	604809.10	4133312.20	0.00	0.00	0.00
DISCCART	604829.10	4133312.20	0.00	0.00	0.00
DISCCART	604849.10	4133312.20	0.00	0.00	0.00
** DESCRREC	"School2"	"OcalaAcademy"			
DISCCART	604889.10	4133312.20	0.00	0.00	0.00
DISCCART	604909.10	4133312.20	0.00	0.00	0.00
DISCCART	604929.10	4133312.20	0.00	0.00	0.00
DISCCART	604949.10	4133312.20	0.00	0.00	0.00
DISCCART	604969.10	4133312.20	0.00	0.00	0.00
DISCCART	604989.10	4133312.20	0.00	0.00	0.00
DISCCART	605009.10	4133312.20	0.00	0.00	0.00
DISCCART	605029.10	4133312.20	0.00	0.00	0.00
DISCCART	605049.10	4133312.20	0.00	0.00	0.00
DISCCART	605069.10	4133312.20	0.00	0.00	0.00
DISCCART	605089.10	4133312.20	0.00	0.00	0.00
** DESCRREC	" "	" "			
DISCCART	604149.10	4133332.20	0.00	0.00	0.00
DISCCART	604169.10	4133332.20	0.00	0.00	0.00
DISCCART	604189.10	4133332.20	0.00	0.00	0.00
DISCCART	604209.10	4133332.20	0.00	0.00	0.00
DISCCART	604249.10	4133332.20	0.00	0.00	0.00
DISCCART	604269.10	4133332.20	0.00	0.00	0.00
DISCCART	604289.10	4133332.20	0.00	0.00	0.00
DISCCART	604309.10	4133332.20	0.00	0.00	0.00
DISCCART	604349.10	4133332.20	0.00	0.00	0.00
DISCCART	604369.10	4133332.20	0.00	0.00	0.00
DISCCART	604389.10	4133332.20	0.00	0.00	0.00
DISCCART	604409.10	4133332.20	0.00	0.00	0.00
DISCCART	604449.10	4133332.20	0.00	0.00	0.00
DISCCART	604469.10	4133332.20	0.00	0.00	0.00
DISCCART	604569.10	4133332.20	0.00	0.00	0.00
DISCCART	604609.10	4133332.20	0.00	0.00	0.00
DISCCART	604649.10	4133332.20	0.00	0.00	0.00

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DISCCART	604669.10	4133332.20	0.00	0.00	0.00
DISCCART	604689.10	4133332.20	0.00	0.00	0.00
DISCCART	604709.10	4133332.20	0.00	0.00	0.00
DISCCART	604729.10	4133332.20	0.00	0.00	0.00
DISCCART	604769.10	4133332.20	0.00	0.00	0.00
DISCCART	604789.10	4133332.20	0.00	0.00	0.00
DISCCART	604809.10	4133332.20	0.00	0.00	0.00
DISCCART	604829.10	4133332.20	0.00	0.00	0.00
** DESCRREC	"School2"	"OcalaAcademy"			
DISCCART	604869.10	4133332.20	0.00	0.00	0.00
DISCCART	604889.10	4133332.20	0.00	0.00	0.00
DISCCART	604909.10	4133332.20	0.00	0.00	0.00
DISCCART	604929.10	4133332.20	0.00	0.00	0.00
DISCCART	604949.10	4133332.20	0.00	0.00	0.00
DISCCART	604969.10	4133332.20	0.00	0.00	0.00
DISCCART	604989.10	4133332.20	0.00	0.00	0.00
DISCCART	605009.10	4133332.20	0.00	0.00	0.00
DISCCART	605029.10	4133332.20	0.00	0.00	0.00
DISCCART	605049.10	4133332.20	0.00	0.00	0.00
DISCCART	605069.10	4133332.20	0.00	0.00	0.00
** DESCRREC	" "	" "			
DISCCART	604169.10	4133352.20	0.00	0.00	0.00
DISCCART	604189.10	4133352.20	0.00	0.00	0.00
DISCCART	604229.10	4133352.20	0.00	0.00	0.00
DISCCART	604249.10	4133352.20	0.00	0.00	0.00
DISCCART	604269.10	4133352.20	0.00	0.00	0.00
DISCCART	604289.10	4133352.20	0.00	0.00	0.00
DISCCART	604349.10	4133352.20	0.00	0.00	0.00
DISCCART	604369.10	4133352.20	0.00	0.00	0.00
DISCCART	604389.10	4133352.20	0.00	0.00	0.00
DISCCART	604429.10	4133352.20	0.00	0.00	0.00
DISCCART	604449.10	4133352.20	0.00	0.00	0.00
DISCCART	604469.10	4133352.20	0.00	0.00	0.00
DISCCART	604589.10	4133352.20	0.00	0.00	0.00
DISCCART	604609.10	4133352.20	0.00	0.00	0.00
DISCCART	604629.10	4133352.20	0.00	0.00	0.00
DISCCART	604649.10	4133352.20	0.00	0.00	0.00
DISCCART	604689.10	4133352.20	0.00	0.00	0.00
DISCCART	604709.10	4133352.20	0.00	0.00	0.00
DISCCART	604749.10	4133352.20	0.00	0.00	0.00
DISCCART	604769.10	4133352.20	0.00	0.00	0.00
DISCCART	604789.10	4133352.20	0.00	0.00	0.00
DISCCART	604809.10	4133352.20	0.00	0.00	0.00
** DESCRREC	"School2"	"OcalaAcademy"			
DISCCART	604849.10	4133352.20	0.00	0.00	0.00
DISCCART	604869.10	4133352.20	0.00	0.00	0.00
DISCCART	604889.10	4133352.20	0.00	0.00	0.00
DISCCART	604909.10	4133352.20	0.00	0.00	0.00

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DISCCART	604929.10	4133352.20	0.00	0.00	0.00
DISCCART	604949.10	4133352.20	0.00	0.00	0.00
DISCCART	604969.10	4133352.20	0.00	0.00	0.00
DISCCART	604989.10	4133352.20	0.00	0.00	0.00
DISCCART	605009.10	4133352.20	0.00	0.00	0.00
DISCCART	605029.10	4133352.20	0.00	0.00	0.00
DISCCART	605049.10	4133352.20	0.00	0.00	0.00
DISCCART	605069.10	4133352.20	0.00	0.00	0.00
** DESCRREC	""	""			
DISCCART	604149.10	4133372.20	0.00	0.00	0.00
DISCCART	604209.10	4133372.20	0.00	0.00	0.00
DISCCART	604229.10	4133372.20	0.00	0.00	0.00
DISCCART	604249.10	4133372.20	0.00	0.00	0.00
DISCCART	604269.10	4133372.20	0.00	0.00	0.00
DISCCART	604329.10	4133372.20	0.00	0.00	0.00
DISCCART	604369.10	4133372.20	0.00	0.00	0.00
DISCCART	604409.10	4133372.20	0.00	0.00	0.00
DISCCART	604429.10	4133372.20	0.00	0.00	0.00
DISCCART	604449.10	4133372.20	0.00	0.00	0.00
DISCCART	604529.10	4133372.20	0.00	0.00	0.00
DISCCART	604549.10	4133372.20	0.00	0.00	0.00
DISCCART	604669.10	4133372.20	0.00	0.00	0.00
DISCCART	604689.10	4133372.20	0.00	0.00	0.00
DISCCART	604729.10	4133372.20	0.00	0.00	0.00
DISCCART	604749.10	4133372.20	0.00	0.00	0.00
DISCCART	604769.10	4133372.20	0.00	0.00	0.00
DISCCART	604789.10	4133372.20	0.00	0.00	0.00
** DESCRREC	"School2"	"OcalaAcademy"			
DISCCART	604849.10	4133372.20	0.00	0.00	0.00
DISCCART	604869.10	4133372.20	0.00	0.00	0.00
DISCCART	604889.10	4133372.20	0.00	0.00	0.00
DISCCART	604909.10	4133372.20	0.00	0.00	0.00
DISCCART	604929.10	4133372.20	0.00	0.00	0.00
DISCCART	604949.10	4133372.20	0.00	0.00	0.00
DISCCART	604969.10	4133372.20	0.00	0.00	0.00
DISCCART	604989.10	4133372.20	0.00	0.00	0.00
DISCCART	605009.10	4133372.20	0.00	0.00	0.00
DISCCART	605029.10	4133372.20	0.00	0.00	0.00
DISCCART	605049.10	4133372.20	0.00	0.00	0.00
** DESCRREC	""	""			
DISCCART	604129.10	4133392.20	0.00	0.00	0.00
DISCCART	604149.10	4133392.20	0.00	0.00	0.00
DISCCART	604169.10	4133392.20	0.00	0.00	0.00
DISCCART	604209.10	4133392.20	0.00	0.00	0.00
DISCCART	604229.10	4133392.20	0.00	0.00	0.00
DISCCART	604249.10	4133392.20	0.00	0.00	0.00
DISCCART	604269.10	4133392.20	0.00	0.00	0.00
DISCCART	604309.10	4133392.20	0.00	0.00	0.00

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DISCCART	604329.10	4133392.20	0.00	0.00	0.00
DISCCART	604349.10	4133392.20	0.00	0.00	0.00
DISCCART	604389.10	4133392.20	0.00	0.00	0.00
DISCCART	604409.10	4133392.20	0.00	0.00	0.00
DISCCART	604429.10	4133392.20	0.00	0.00	0.00
DISCCART	604509.10	4133392.20	0.00	0.00	0.00
DISCCART	604529.10	4133392.20	0.00	0.00	0.00
DISCCART	604569.10	4133392.20	0.00	0.00	0.00
DISCCART	604589.10	4133392.20	0.00	0.00	0.00
DISCCART	604689.10	4133392.20	0.00	0.00	0.00
DISCCART	604729.10	4133392.20	0.00	0.00	0.00
DISCCART	604749.10	4133392.20	0.00	0.00	0.00
DISCCART	604769.10	4133392.20	0.00	0.00	0.00
DISCCART	604789.10	4133392.20	0.00	0.00	0.00
** DESCRREC	"School2"	"OcalaAcademy"			
DISCCART	604829.10	4133392.20	0.00	0.00	0.00
DISCCART	604849.10	4133392.20	0.00	0.00	0.00
DISCCART	604869.10	4133392.20	0.00	0.00	0.00
DISCCART	604889.10	4133392.20	0.00	0.00	0.00
DISCCART	604909.10	4133392.20	0.00	0.00	0.00
DISCCART	604929.10	4133392.20	0.00	0.00	0.00
DISCCART	604949.10	4133392.20	0.00	0.00	0.00
DISCCART	604969.10	4133392.20	0.00	0.00	0.00
DISCCART	604989.10	4133392.20	0.00	0.00	0.00
DISCCART	605009.10	4133392.20	0.00	0.00	0.00
DISCCART	605029.10	4133392.20	0.00	0.00	0.00
** DESCRREC	" "	" "			
DISCCART	604129.10	4133412.20	0.00	0.00	0.00
DISCCART	604149.10	4133412.20	0.00	0.00	0.00
DISCCART	604169.10	4133412.20	0.00	0.00	0.00
DISCCART	604189.10	4133412.20	0.00	0.00	0.00
DISCCART	604249.10	4133412.20	0.00	0.00	0.00
DISCCART	604289.10	4133412.20	0.00	0.00	0.00
DISCCART	604309.10	4133412.20	0.00	0.00	0.00
DISCCART	604329.10	4133412.20	0.00	0.00	0.00
DISCCART	604369.10	4133412.20	0.00	0.00	0.00
DISCCART	604409.10	4133412.20	0.00	0.00	0.00
DISCCART	604429.10	4133412.20	0.00	0.00	0.00
DISCCART	604509.10	4133412.20	0.00	0.00	0.00
DISCCART	604529.10	4133412.20	0.00	0.00	0.00
DISCCART	604569.10	4133412.20	0.00	0.00	0.00
DISCCART	604589.10	4133412.20	0.00	0.00	0.00
DISCCART	604609.10	4133412.20	0.00	0.00	0.00
DISCCART	604629.10	4133412.20	0.00	0.00	0.00
DISCCART	604729.10	4133412.20	0.00	0.00	0.00
DISCCART	604749.10	4133412.20	0.00	0.00	0.00
DISCCART	604769.10	4133412.20	0.00	0.00	0.00
** DESCRREC	"School2"	"OcalaAcademy"			

Eastridge\_BART

DISCCART	604809.10	4133412.20	0.00	0.00	0.00
DISCCART	604829.10	4133412.20	0.00	0.00	0.00
DISCCART	604849.10	4133412.20	0.00	0.00	0.00
DISCCART	604869.10	4133412.20	0.00	0.00	0.00
DISCCART	604889.10	4133412.20	0.00	0.00	0.00
DISCCART	604909.10	4133412.20	0.00	0.00	0.00
DISCCART	604929.10	4133412.20	0.00	0.00	0.00
DISCCART	604949.10	4133412.20	0.00	0.00	0.00
DISCCART	604969.10	4133412.20	0.00	0.00	0.00
DISCCART	604989.10	4133412.20	0.00	0.00	0.00
DISCCART	605009.10	4133412.20	0.00	0.00	0.00
DISCCART	605029.10	4133412.20	0.00	0.00	0.00
** DESCRREC	""	""			
DISCCART	604149.10	4133432.20	0.00	0.00	0.00
DISCCART	604169.10	4133432.20	0.00	0.00	0.00
DISCCART	604189.10	4133432.20	0.00	0.00	0.00
DISCCART	604209.10	4133432.20	0.00	0.00	0.00
DISCCART	604269.10	4133432.20	0.00	0.00	0.00
DISCCART	604289.10	4133432.20	0.00	0.00	0.00
DISCCART	604309.10	4133432.20	0.00	0.00	0.00
DISCCART	604349.10	4133432.20	0.00	0.00	0.00
DISCCART	604369.10	4133432.20	0.00	0.00	0.00
DISCCART	604389.10	4133432.20	0.00	0.00	0.00
DISCCART	604409.10	4133432.20	0.00	0.00	0.00
DISCCART	604489.10	4133432.20	0.00	0.00	0.00
DISCCART	604509.10	4133432.20	0.00	0.00	0.00
DISCCART	604529.10	4133432.20	0.00	0.00	0.00
DISCCART	604549.10	4133432.20	0.00	0.00	0.00
DISCCART	604569.10	4133432.20	0.00	0.00	0.00
DISCCART	604589.10	4133432.20	0.00	0.00	0.00
DISCCART	604649.10	4133432.20	0.00	0.00	0.00
DISCCART	604669.10	4133432.20	0.00	0.00	0.00
DISCCART	604689.10	4133432.20	0.00	0.00	0.00
** DESCRREC	"School2"	"OcalaAcademy"			
DISCCART	604789.10	4133432.20	0.00	0.00	0.00
DISCCART	604809.10	4133432.20	0.00	0.00	0.00
DISCCART	604829.10	4133432.20	0.00	0.00	0.00
DISCCART	604849.10	4133432.20	0.00	0.00	0.00
DISCCART	604869.10	4133432.20	0.00	0.00	0.00
DISCCART	604889.10	4133432.20	0.00	0.00	0.00
DISCCART	604909.10	4133432.20	0.00	0.00	0.00
DISCCART	604929.10	4133432.20	0.00	0.00	0.00
DISCCART	604949.10	4133432.20	0.00	0.00	0.00
DISCCART	604969.10	4133432.20	0.00	0.00	0.00
DISCCART	604989.10	4133432.20	0.00	0.00	0.00
DISCCART	605009.10	4133432.20	0.00	0.00	0.00
** DESCRREC	""	""			
DISCCART	604089.10	4133452.20	0.00	0.00	0.00



Eastridge\_BART

DISCCART	604109.10	4133452.20	0.00	0.00	0.00
DISCCART	604169.10	4133452.20	0.00	0.00	0.00
DISCCART	604189.10	4133452.20	0.00	0.00	0.00
DISCCART	604209.10	4133452.20	0.00	0.00	0.00
DISCCART	604249.10	4133452.20	0.00	0.00	0.00
DISCCART	604269.10	4133452.20	0.00	0.00	0.00
DISCCART	604289.10	4133452.20	0.00	0.00	0.00
DISCCART	604309.10	4133452.20	0.00	0.00	0.00
DISCCART	604349.10	4133452.20	0.00	0.00	0.00
DISCCART	604369.10	4133452.20	0.00	0.00	0.00
DISCCART	604389.10	4133452.20	0.00	0.00	0.00
DISCCART	604409.10	4133452.20	0.00	0.00	0.00
DISCCART	604529.10	4133452.20	0.00	0.00	0.00
DISCCART	604549.10	4133452.20	0.00	0.00	0.00
DISCCART	604569.10	4133452.20	0.00	0.00	0.00
DISCCART	604589.10	4133452.20	0.00	0.00	0.00
DISCCART	604609.10	4133452.20	0.00	0.00	0.00
DISCCART	604629.10	4133452.20	0.00	0.00	0.00
DISCCART	604669.10	4133452.20	0.00	0.00	0.00
DISCCART	604689.10	4133452.20	0.00	0.00	0.00
DISCCART	604709.10	4133452.20	0.00	0.00	0.00
DISCCART	604729.10	4133452.20	0.00	0.00	0.00
** DESCRREC	"School2"	"OcalaAcademy"			
DISCCART	604829.10	4133452.20	0.00	0.00	0.00
DISCCART	604849.10	4133452.20	0.00	0.00	0.00
DISCCART	604869.10	4133452.20	0.00	0.00	0.00
DISCCART	604889.10	4133452.20	0.00	0.00	0.00
DISCCART	604909.10	4133452.20	0.00	0.00	0.00
DISCCART	604929.10	4133452.20	0.00	0.00	0.00
DISCCART	604949.10	4133452.20	0.00	0.00	0.00
DISCCART	604969.10	4133452.20	0.00	0.00	0.00
DISCCART	604989.10	4133452.20	0.00	0.00	0.00
** DESCRREC	""	""			
DISCCART	604069.10	4133472.20	0.00	0.00	0.00
DISCCART	604089.10	4133472.20	0.00	0.00	0.00
DISCCART	604109.10	4133472.20	0.00	0.00	0.00
DISCCART	604129.10	4133472.20	0.00	0.00	0.00
DISCCART	604149.10	4133472.20	0.00	0.00	0.00
DISCCART	604189.10	4133472.20	0.00	0.00	0.00
DISCCART	604249.10	4133472.20	0.00	0.00	0.00
DISCCART	604269.10	4133472.20	0.00	0.00	0.00
DISCCART	604289.10	4133472.20	0.00	0.00	0.00
DISCCART	604329.10	4133472.20	0.00	0.00	0.00
DISCCART	604369.10	4133472.20	0.00	0.00	0.00
DISCCART	604389.10	4133472.20	0.00	0.00	0.00
DISCCART	604489.10	4133472.20	0.00	0.00	0.00
DISCCART	604509.10	4133472.20	0.00	0.00	0.00
DISCCART	604569.10	4133472.20	0.00	0.00	0.00

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DISCCART	604589.10	4133472.20	0.00	0.00	0.00
DISCCART	604609.10	4133472.20	0.00	0.00	0.00
DISCCART	604629.10	4133472.20	0.00	0.00	0.00
DISCCART	604649.10	4133472.20	0.00	0.00	0.00
DISCCART	604689.10	4133472.20	0.00	0.00	0.00
DISCCART	604709.10	4133472.20	0.00	0.00	0.00
DISCCART	604729.10	4133472.20	0.00	0.00	0.00
DISCCART	604769.10	4133472.20	0.00	0.00	0.00
DISCCART	604789.10	4133472.20	0.00	0.00	0.00
** DESCRREC	"School2"	"OcalaAcademy"			
DISCCART	604869.10	4133472.20	0.00	0.00	0.00
DISCCART	604889.10	4133472.20	0.00	0.00	0.00
DISCCART	604909.10	4133472.20	0.00	0.00	0.00
DISCCART	604929.10	4133472.20	0.00	0.00	0.00
DISCCART	604949.10	4133472.20	0.00	0.00	0.00
DISCCART	604969.10	4133472.20	0.00	0.00	0.00
DISCCART	604989.10	4133472.20	0.00	0.00	0.00
** DESCRREC	""	""			
DISCCART	604049.10	4133492.20	0.00	0.00	0.00
DISCCART	604069.10	4133492.20	0.00	0.00	0.00
DISCCART	604089.10	4133492.20	0.00	0.00	0.00
DISCCART	604109.10	4133492.20	0.00	0.00	0.00
DISCCART	604129.10	4133492.20	0.00	0.00	0.00
DISCCART	604149.10	4133492.20	0.00	0.00	0.00
DISCCART	604169.10	4133492.20	0.00	0.00	0.00
DISCCART	604229.10	4133492.20	0.00	0.00	0.00
DISCCART	604249.10	4133492.20	0.00	0.00	0.00
DISCCART	604269.10	4133492.20	0.00	0.00	0.00
DISCCART	604309.10	4133492.20	0.00	0.00	0.00
DISCCART	604329.10	4133492.20	0.00	0.00	0.00
DISCCART	604349.10	4133492.20	0.00	0.00	0.00
DISCCART	604369.10	4133492.20	0.00	0.00	0.00
DISCCART	604389.10	4133492.20	0.00	0.00	0.00
DISCCART	604469.10	4133492.20	0.00	0.00	0.00
DISCCART	604489.10	4133492.20	0.00	0.00	0.00
DISCCART	604509.10	4133492.20	0.00	0.00	0.00
DISCCART	604529.10	4133492.20	0.00	0.00	0.00
DISCCART	604609.10	4133492.20	0.00	0.00	0.00
DISCCART	604629.10	4133492.20	0.00	0.00	0.00
DISCCART	604649.10	4133492.20	0.00	0.00	0.00
DISCCART	604669.10	4133492.20	0.00	0.00	0.00
DISCCART	604689.10	4133492.20	0.00	0.00	0.00
DISCCART	604709.10	4133492.20	0.00	0.00	0.00
DISCCART	604749.10	4133492.20	0.00	0.00	0.00
DISCCART	604769.10	4133492.20	0.00	0.00	0.00
DISCCART	604789.10	4133492.20	0.00	0.00	0.00
** DESCRREC	"School2"	"OcalaAcademy"			
DISCCART	604929.10	4133492.20	0.00	0.00	0.00

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DISCCART	604949.10	4133492.20	0.00	0.00	0.00
DISCCART	604969.10	4133492.20	0.00	0.00	0.00
** DESCRREC	""	""			
DISCCART	604029.10	4133512.20	0.00	0.00	0.00
DISCCART	604049.10	4133512.20	0.00	0.00	0.00
DISCCART	604109.10	4133512.20	0.00	0.00	0.00
DISCCART	604129.10	4133512.20	0.00	0.00	0.00
DISCCART	604149.10	4133512.20	0.00	0.00	0.00
DISCCART	604169.10	4133512.20	0.00	0.00	0.00
DISCCART	604209.10	4133512.20	0.00	0.00	0.00
DISCCART	604229.10	4133512.20	0.00	0.00	0.00
DISCCART	604249.10	4133512.20	0.00	0.00	0.00
DISCCART	604289.10	4133512.20	0.00	0.00	0.00
DISCCART	604309.10	4133512.20	0.00	0.00	0.00
DISCCART	604329.10	4133512.20	0.00	0.00	0.00
DISCCART	604349.10	4133512.20	0.00	0.00	0.00
DISCCART	604369.10	4133512.20	0.00	0.00	0.00
DISCCART	604469.10	4133512.20	0.00	0.00	0.00
DISCCART	604489.10	4133512.20	0.00	0.00	0.00
DISCCART	604509.10	4133512.20	0.00	0.00	0.00
DISCCART	604529.10	4133512.20	0.00	0.00	0.00
DISCCART	604569.10	4133512.20	0.00	0.00	0.00
DISCCART	604629.10	4133512.20	0.00	0.00	0.00
DISCCART	604649.10	4133512.20	0.00	0.00	0.00
DISCCART	604669.10	4133512.20	0.00	0.00	0.00
DISCCART	604689.10	4133512.20	0.00	0.00	0.00
DISCCART	604749.10	4133512.20	0.00	0.00	0.00
DISCCART	604769.10	4133512.20	0.00	0.00	0.00
DISCCART	604789.10	4133512.20	0.00	0.00	0.00
DISCCART	604809.10	4133512.20	0.00	0.00	0.00
DISCCART	604029.10	4133532.20	0.00	0.00	0.00
DISCCART	604049.10	4133532.20	0.00	0.00	0.00
DISCCART	604089.10	4133532.20	0.00	0.00	0.00
DISCCART	604109.10	4133532.20	0.00	0.00	0.00
DISCCART	604129.10	4133532.20	0.00	0.00	0.00
DISCCART	604149.10	4133532.20	0.00	0.00	0.00
DISCCART	604189.10	4133532.20	0.00	0.00	0.00
DISCCART	604209.10	4133532.20	0.00	0.00	0.00
DISCCART	604229.10	4133532.20	0.00	0.00	0.00
DISCCART	604269.10	4133532.20	0.00	0.00	0.00
DISCCART	604309.10	4133532.20	0.00	0.00	0.00
DISCCART	604329.10	4133532.20	0.00	0.00	0.00
DISCCART	604349.10	4133532.20	0.00	0.00	0.00
DISCCART	604369.10	4133532.20	0.00	0.00	0.00
DISCCART	604449.10	4133532.20	0.00	0.00	0.00
DISCCART	604469.10	4133532.20	0.00	0.00	0.00
DISCCART	604489.10	4133532.20	0.00	0.00	0.00
DISCCART	604509.10	4133532.20	0.00	0.00	0.00

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DISCCART	604549.10	4133532.20	0.00	0.00	0.00
DISCCART	604569.10	4133532.20	0.00	0.00	0.00
DISCCART	604589.10	4133532.20	0.00	0.00	0.00
DISCCART	604609.10	4133532.20	0.00	0.00	0.00
DISCCART	604669.10	4133532.20	0.00	0.00	0.00
DISCCART	604689.10	4133532.20	0.00	0.00	0.00
DISCCART	604729.10	4133532.20	0.00	0.00	0.00
DISCCART	604749.10	4133532.20	0.00	0.00	0.00
DISCCART	604769.10	4133532.20	0.00	0.00	0.00
DISCCART	604789.10	4133532.20	0.00	0.00	0.00
DISCCART	604009.10	4133552.20	0.00	0.00	0.00
DISCCART	604029.10	4133552.20	0.00	0.00	0.00
DISCCART	604069.10	4133552.20	0.00	0.00	0.00
DISCCART	604089.10	4133552.20	0.00	0.00	0.00
DISCCART	604109.10	4133552.20	0.00	0.00	0.00
DISCCART	604129.10	4133552.20	0.00	0.00	0.00
DISCCART	604169.10	4133552.20	0.00	0.00	0.00
DISCCART	604189.10	4133552.20	0.00	0.00	0.00
DISCCART	604209.10	4133552.20	0.00	0.00	0.00
DISCCART	604249.10	4133552.20	0.00	0.00	0.00
DISCCART	604269.10	4133552.20	0.00	0.00	0.00
DISCCART	604289.10	4133552.20	0.00	0.00	0.00
DISCCART	604329.10	4133552.20	0.00	0.00	0.00
DISCCART	604349.10	4133552.20	0.00	0.00	0.00
DISCCART	604449.10	4133552.20	0.00	0.00	0.00
DISCCART	604469.10	4133552.20	0.00	0.00	0.00
DISCCART	604489.10	4133552.20	0.00	0.00	0.00
DISCCART	604549.10	4133552.20	0.00	0.00	0.00
DISCCART	604569.10	4133552.20	0.00	0.00	0.00
DISCCART	604589.10	4133552.20	0.00	0.00	0.00
DISCCART	604609.10	4133552.20	0.00	0.00	0.00
DISCCART	604629.10	4133552.20	0.00	0.00	0.00
DISCCART	604649.10	4133552.20	0.00	0.00	0.00
DISCCART	604709.10	4133552.20	0.00	0.00	0.00
DISCCART	604729.10	4133552.20	0.00	0.00	0.00
DISCCART	604749.10	4133552.20	0.00	0.00	0.00
DISCCART	604769.10	4133552.20	0.00	0.00	0.00
DISCCART	603989.10	4133572.20	0.00	0.00	0.00
DISCCART	604009.10	4133572.20	0.00	0.00	0.00
DISCCART	604049.10	4133572.20	0.00	0.00	0.00
DISCCART	604069.10	4133572.20	0.00	0.00	0.00
DISCCART	604089.10	4133572.20	0.00	0.00	0.00
DISCCART	604109.10	4133572.20	0.00	0.00	0.00
DISCCART	604169.10	4133572.20	0.00	0.00	0.00
DISCCART	604189.10	4133572.20	0.00	0.00	0.00
DISCCART	604229.10	4133572.20	0.00	0.00	0.00
DISCCART	604249.10	4133572.20	0.00	0.00	0.00
DISCCART	604269.10	4133572.20	0.00	0.00	0.00

Eastridge\_BART

DISCCART	604289.10	4133572.20	0.00	0.00	0.00
DISCCART	604309.10	4133572.20	0.00	0.00	0.00
DISCCART	604329.10	4133572.20	0.00	0.00	0.00
DISCCART	604349.10	4133572.20	0.00	0.00	0.00
DISCCART	604429.10	4133572.20	0.00	0.00	0.00
DISCCART	604449.10	4133572.20	0.00	0.00	0.00
DISCCART	604469.10	4133572.20	0.00	0.00	0.00
DISCCART	604489.10	4133572.20	0.00	0.00	0.00
DISCCART	604509.10	4133572.20	0.00	0.00	0.00
DISCCART	604529.10	4133572.20	0.00	0.00	0.00
DISCCART	604569.10	4133572.20	0.00	0.00	0.00
DISCCART	604589.10	4133572.20	0.00	0.00	0.00
DISCCART	604609.10	4133572.20	0.00	0.00	0.00
DISCCART	604629.10	4133572.20	0.00	0.00	0.00
DISCCART	604649.10	4133572.20	0.00	0.00	0.00
DISCCART	604669.10	4133572.20	0.00	0.00	0.00
DISCCART	604689.10	4133572.20	0.00	0.00	0.00
DISCCART	604709.10	4133572.20	0.00	0.00	0.00
DISCCART	604729.10	4133572.20	0.00	0.00	0.00
DISCCART	604749.10	4133572.20	0.00	0.00	0.00
DISCCART	604029.10	4133592.20	0.00	0.00	0.00
DISCCART	604049.10	4133592.20	0.00	0.00	0.00
DISCCART	604069.10	4133592.20	0.00	0.00	0.00
DISCCART	604089.10	4133592.20	0.00	0.00	0.00
DISCCART	604109.10	4133592.20	0.00	0.00	0.00
DISCCART	604149.10	4133592.20	0.00	0.00	0.00
DISCCART	604169.10	4133592.20	0.00	0.00	0.00
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DISCCART	604249.10	4133592.20	0.00	0.00	0.00
DISCCART	604269.10	4133592.20	0.00	0.00	0.00
DISCCART	604289.10	4133592.20	0.00	0.00	0.00
DISCCART	604309.10	4133592.20	0.00	0.00	0.00
DISCCART	604329.10	4133592.20	0.00	0.00	0.00
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DISCCART	604429.10	4133592.20	0.00	0.00	0.00
DISCCART	604449.10	4133592.20	0.00	0.00	0.00
DISCCART	604469.10	4133592.20	0.00	0.00	0.00
DISCCART	604489.10	4133592.20	0.00	0.00	0.00
DISCCART	604509.10	4133592.20	0.00	0.00	0.00
DISCCART	604529.10	4133592.20	0.00	0.00	0.00
DISCCART	604549.10	4133592.20	0.00	0.00	0.00
DISCCART	604609.10	4133592.20	0.00	0.00	0.00
DISCCART	604629.10	4133592.20	0.00	0.00	0.00
DISCCART	604649.10	4133592.20	0.00	0.00	0.00
DISCCART	604669.10	4133592.20	0.00	0.00	0.00
DISCCART	604689.10	4133592.20	0.00	0.00	0.00
DISCCART	604709.10	4133592.20	0.00	0.00	0.00
DISCCART	604729.10	4133592.20	0.00	0.00	0.00

Eastridge\_BART

DISCCART	604749.10	4133592.20	0.00	0.00	0.00
DISCCART	603989.10	4133612.20	0.00	0.00	0.00
DISCCART	604029.10	4133612.20	0.00	0.00	0.00
DISCCART	604049.10	4133612.20	0.00	0.00	0.00
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DISCCART	604409.10	4133632.20	0.00	0.00	0.00
DISCCART	604429.10	4133632.20	0.00	0.00	0.00
DISCCART	604449.10	4133632.20	0.00	0.00	0.00

Eastridge\_BART

DISCCART	604529.10	4133632.20	0.00	0.00	0.00
DISCCART	604549.10	4133632.20	0.00	0.00	0.00
DISCCART	604569.10	4133632.20	0.00	0.00	0.00
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DISCCART	604049.10	4133672.20	0.00	0.00	0.00
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DISCCART	604149.10	4133672.20	0.00	0.00	0.00
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DISCCART	604509.10	4133672.20	0.00	0.00	0.00
DISCCART	604529.10	4133672.20	0.00	0.00	0.00
DISCCART	604589.10	4133672.20	0.00	0.00	0.00

Eastridge\_BART

DISCCART	604609.10	4133672.20	0.00	0.00	0.00
DISCCART	604629.10	4133672.20	0.00	0.00	0.00
DISCCART	604649.10	4133672.20	0.00	0.00	0.00
DISCCART	604669.10	4133672.20	0.00	0.00	0.00
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DISCCART	603989.10	4133732.20	0.00	0.00	0.00
DISCCART	604009.10	4133732.20	0.00	0.00	0.00
DISCCART	604029.10	4133732.20	0.00	0.00	0.00



Eastridge\_BART

DISCCART	604049.10	4133732.20	0.00	0.00	0.00
DISCCART	604069.10	4133732.20	0.00	0.00	0.00
DISCCART	604089.10	4133732.20	0.00	0.00	0.00
DISCCART	604229.10	4133732.20	0.00	0.00	0.00
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DISCCART	604069.10	4133752.20	0.00	0.00	0.00
DISCCART	604329.10	4133752.20	0.00	0.00	0.00
DISCCART	604349.10	4133752.20	0.00	0.00	0.00
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DISCCART	604009.10	4133772.20	0.00	0.00	0.00
DISCCART	604029.10	4133772.20	0.00	0.00	0.00
DISCCART	604049.10	4133772.20	0.00	0.00	0.00

Eastridge\_BART

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DISCCART	604329.10	4133772.20	0.00	0.00	0.00
DISCCART	604349.10	4133772.20	0.00	0.00	0.00
DISCCART	604369.10	4133772.20	0.00	0.00	0.00
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DISCCART	604369.10	4133812.20	0.00	0.00	0.00
DISCCART	604389.10	4133812.20	0.00	0.00	0.00
DISCCART	604409.10	4133812.20	0.00	0.00	0.00

Eastridge\_BART

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DISCCART	604449.10	4133812.20	0.00	0.00	0.00
DISCCART	604509.10	4133812.20	0.00	0.00	0.00
DISCCART	604529.10	4133812.20	0.00	0.00	0.00
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DISCCART	603949.10	4133832.20	0.00	0.00	0.00
DISCCART	603969.10	4133832.20	0.00	0.00	0.00
DISCCART	603989.10	4133832.20	0.00	0.00	0.00
DISCCART	604009.10	4133832.20	0.00	0.00	0.00
DISCCART	604269.10	4133832.20	0.00	0.00	0.00
DISCCART	604289.10	4133832.20	0.00	0.00	0.00
DISCCART	604309.10	4133832.20	0.00	0.00	0.00
DISCCART	604329.10	4133832.20	0.00	0.00	0.00
DISCCART	604349.10	4133832.20	0.00	0.00	0.00
DISCCART	604409.10	4133832.20	0.00	0.00	0.00
DISCCART	604429.10	4133832.20	0.00	0.00	0.00
DISCCART	604449.10	4133832.20	0.00	0.00	0.00
DISCCART	604469.10	4133832.20	0.00	0.00	0.00
DISCCART	604489.10	4133832.20	0.00	0.00	0.00
DISCCART	604549.10	4133832.20	0.00	0.00	0.00
DISCCART	604569.10	4133832.20	0.00	0.00	0.00
DISCCART	604589.10	4133832.20	0.00	0.00	0.00
DISCCART	604609.10	4133832.20	0.00	0.00	0.00
DISCCART	603849.10	4133852.20	0.00	0.00	0.00
DISCCART	603869.10	4133852.20	0.00	0.00	0.00
DISCCART	603889.10	4133852.20	0.00	0.00	0.00
DISCCART	603909.10	4133852.20	0.00	0.00	0.00
DISCCART	603929.10	4133852.20	0.00	0.00	0.00
DISCCART	603949.10	4133852.20	0.00	0.00	0.00
DISCCART	603969.10	4133852.20	0.00	0.00	0.00
DISCCART	603989.10	4133852.20	0.00	0.00	0.00
DISCCART	604289.10	4133852.20	0.00	0.00	0.00
DISCCART	604309.10	4133852.20	0.00	0.00	0.00
DISCCART	604329.10	4133852.20	0.00	0.00	0.00
DISCCART	604349.10	4133852.20	0.00	0.00	0.00
DISCCART	604369.10	4133852.20	0.00	0.00	0.00
DISCCART	604389.10	4133852.20	0.00	0.00	0.00
DISCCART	604429.10	4133852.20	0.00	0.00	0.00
DISCCART	604449.10	4133852.20	0.00	0.00	0.00
DISCCART	604469.10	4133852.20	0.00	0.00	0.00
DISCCART	604489.10	4133852.20	0.00	0.00	0.00

Eastridge\_BART

DISCCART	604509.10	4133852.20	0.00	0.00	0.00
DISCCART	604529.10	4133852.20	0.00	0.00	0.00
DISCCART	603849.10	4133872.20	0.00	0.00	0.00
DISCCART	603869.10	4133872.20	0.00	0.00	0.00
DISCCART	603889.10	4133872.20	0.00	0.00	0.00
DISCCART	603929.10	4133872.20	0.00	0.00	0.00
DISCCART	603949.10	4133872.20	0.00	0.00	0.00
DISCCART	603969.10	4133872.20	0.00	0.00	0.00
DISCCART	604249.10	4133872.20	0.00	0.00	0.00
DISCCART	604269.10	4133872.20	0.00	0.00	0.00
DISCCART	604329.10	4133872.20	0.00	0.00	0.00
DISCCART	604349.10	4133872.20	0.00	0.00	0.00
DISCCART	604369.10	4133872.20	0.00	0.00	0.00
DISCCART	604389.10	4133872.20	0.00	0.00	0.00
DISCCART	604409.10	4133872.20	0.00	0.00	0.00
DISCCART	604469.10	4133872.20	0.00	0.00	0.00
DISCCART	604489.10	4133872.20	0.00	0.00	0.00
DISCCART	604509.10	4133872.20	0.00	0.00	0.00
DISCCART	604529.10	4133872.20	0.00	0.00	0.00
DISCCART	604549.10	4133872.20	0.00	0.00	0.00
DISCCART	603809.10	4133892.20	0.00	0.00	0.00
DISCCART	603829.10	4133892.20	0.00	0.00	0.00
DISCCART	603849.10	4133892.20	0.00	0.00	0.00
DISCCART	603909.10	4133892.20	0.00	0.00	0.00
DISCCART	603929.10	4133892.20	0.00	0.00	0.00
DISCCART	603949.10	4133892.20	0.00	0.00	0.00
DISCCART	603969.10	4133892.20	0.00	0.00	0.00
DISCCART	604249.10	4133892.20	0.00	0.00	0.00
DISCCART	604269.10	4133892.20	0.00	0.00	0.00
DISCCART	604289.10	4133892.20	0.00	0.00	0.00
DISCCART	604309.10	4133892.20	0.00	0.00	0.00
DISCCART	604349.10	4133892.20	0.00	0.00	0.00
DISCCART	604369.10	4133892.20	0.00	0.00	0.00
DISCCART	604389.10	4133892.20	0.00	0.00	0.00
DISCCART	604409.10	4133892.20	0.00	0.00	0.00
DISCCART	604429.10	4133892.20	0.00	0.00	0.00
DISCCART	604449.10	4133892.20	0.00	0.00	0.00
DISCCART	604489.10	4133892.20	0.00	0.00	0.00
DISCCART	604509.10	4133892.20	0.00	0.00	0.00
DISCCART	604529.10	4133892.20	0.00	0.00	0.00
DISCCART	603829.10	4133912.20	0.00	0.00	0.00
DISCCART	603849.10	4133912.20	0.00	0.00	0.00
DISCCART	603889.10	4133912.20	0.00	0.00	0.00
DISCCART	603909.10	4133912.20	0.00	0.00	0.00
DISCCART	603929.10	4133912.20	0.00	0.00	0.00
DISCCART	603949.10	4133912.20	0.00	0.00	0.00
DISCCART	604249.10	4133912.20	0.00	0.00	0.00
DISCCART	604269.10	4133912.20	0.00	0.00	0.00

Eastridge\_BART

DISCCART	604289.10	4133912.20	0.00	0.00	0.00
DISCCART	604309.10	4133912.20	0.00	0.00	0.00
DISCCART	604329.10	4133912.20	0.00	0.00	0.00
DISCCART	604349.10	4133912.20	0.00	0.00	0.00
DISCCART	604389.10	4133912.20	0.00	0.00	0.00
DISCCART	604409.10	4133912.20	0.00	0.00	0.00
DISCCART	604429.10	4133912.20	0.00	0.00	0.00
DISCCART	604449.10	4133912.20	0.00	0.00	0.00
DISCCART	604469.10	4133912.20	0.00	0.00	0.00
DISCCART	603809.10	4133932.20	0.00	0.00	0.00
DISCCART	603829.10	4133932.20	0.00	0.00	0.00
DISCCART	603849.10	4133932.20	0.00	0.00	0.00
DISCCART	603889.10	4133932.20	0.00	0.00	0.00
DISCCART	603909.10	4133932.20	0.00	0.00	0.00
DISCCART	603929.10	4133932.20	0.00	0.00	0.00
DISCCART	604229.10	4133932.20	0.00	0.00	0.00
DISCCART	604269.10	4133932.20	0.00	0.00	0.00
DISCCART	604289.10	4133932.20	0.00	0.00	0.00
DISCCART	604309.10	4133932.20	0.00	0.00	0.00
DISCCART	604329.10	4133932.20	0.00	0.00	0.00
DISCCART	604349.10	4133932.20	0.00	0.00	0.00
DISCCART	604369.10	4133932.20	0.00	0.00	0.00
DISCCART	604429.10	4133932.20	0.00	0.00	0.00
DISCCART	604449.10	4133932.20	0.00	0.00	0.00
DISCCART	604469.10	4133932.20	0.00	0.00	0.00
DISCCART	604489.10	4133932.20	0.00	0.00	0.00
DISCCART	604509.10	4133932.20	0.00	0.00	0.00
DISCCART	603809.10	4133952.20	0.00	0.00	0.00
DISCCART	603829.10	4133952.20	0.00	0.00	0.00
DISCCART	603869.10	4133952.20	0.00	0.00	0.00
DISCCART	603889.10	4133952.20	0.00	0.00	0.00
DISCCART	603909.10	4133952.20	0.00	0.00	0.00
DISCCART	603929.10	4133952.20	0.00	0.00	0.00
DISCCART	603949.10	4133952.20	0.00	0.00	0.00
DISCCART	604209.10	4133952.20	0.00	0.00	0.00
DISCCART	604229.10	4133952.20	0.00	0.00	0.00
DISCCART	604249.10	4133952.20	0.00	0.00	0.00
DISCCART	604269.10	4133952.20	0.00	0.00	0.00
DISCCART	604309.10	4133952.20	0.00	0.00	0.00
DISCCART	604329.10	4133952.20	0.00	0.00	0.00
DISCCART	604349.10	4133952.20	0.00	0.00	0.00
DISCCART	604369.10	4133952.20	0.00	0.00	0.00
DISCCART	604389.10	4133952.20	0.00	0.00	0.00
DISCCART	604409.10	4133952.20	0.00	0.00	0.00
DISCCART	604449.10	4133952.20	0.00	0.00	0.00
DISCCART	604469.10	4133952.20	0.00	0.00	0.00
DISCCART	604489.10	4133952.20	0.00	0.00	0.00
DISCCART	603789.10	4133972.20	0.00	0.00	0.00

Eastridge\_BART

DISCCART	603809.10	4133972.20	0.00	0.00	0.00
DISCCART	603829.10	4133972.20	0.00	0.00	0.00
DISCCART	603849.10	4133972.20	0.00	0.00	0.00
DISCCART	603889.10	4133972.20	0.00	0.00	0.00
DISCCART	603909.10	4133972.20	0.00	0.00	0.00
DISCCART	603929.10	4133972.20	0.00	0.00	0.00
DISCCART	603949.10	4133972.20	0.00	0.00	0.00
DISCCART	603969.10	4133972.20	0.00	0.00	0.00
DISCCART	603989.10	4133972.20	0.00	0.00	0.00
DISCCART	604209.10	4133972.20	0.00	0.00	0.00
DISCCART	604229.10	4133972.20	0.00	0.00	0.00
DISCCART	604249.10	4133972.20	0.00	0.00	0.00
DISCCART	604269.10	4133972.20	0.00	0.00	0.00
DISCCART	604289.10	4133972.20	0.00	0.00	0.00
DISCCART	604349.10	4133972.20	0.00	0.00	0.00
DISCCART	604369.10	4133972.20	0.00	0.00	0.00
DISCCART	604389.10	4133972.20	0.00	0.00	0.00
DISCCART	604409.10	4133972.20	0.00	0.00	0.00
DISCCART	604429.10	4133972.20	0.00	0.00	0.00
DISCCART	604449.10	4133972.20	0.00	0.00	0.00
DISCCART	604469.10	4133972.20	0.00	0.00	0.00
DISCCART	604489.10	4133972.20	0.00	0.00	0.00
DISCCART	603789.10	4133992.20	0.00	0.00	0.00
DISCCART	603809.10	4133992.20	0.00	0.00	0.00
DISCCART	603829.10	4133992.20	0.00	0.00	0.00
DISCCART	603849.10	4133992.20	0.00	0.00	0.00
DISCCART	603929.10	4133992.20	0.00	0.00	0.00
DISCCART	603949.10	4133992.20	0.00	0.00	0.00
DISCCART	603969.10	4133992.20	0.00	0.00	0.00
DISCCART	603989.10	4133992.20	0.00	0.00	0.00
DISCCART	604009.10	4133992.20	0.00	0.00	0.00
DISCCART	604029.10	4133992.20	0.00	0.00	0.00
DISCCART	604189.10	4133992.20	0.00	0.00	0.00
DISCCART	604229.10	4133992.20	0.00	0.00	0.00
DISCCART	604249.10	4133992.20	0.00	0.00	0.00
DISCCART	604269.10	4133992.20	0.00	0.00	0.00
DISCCART	604289.10	4133992.20	0.00	0.00	0.00
DISCCART	604309.10	4133992.20	0.00	0.00	0.00
DISCCART	604329.10	4133992.20	0.00	0.00	0.00
DISCCART	604389.10	4133992.20	0.00	0.00	0.00
DISCCART	604429.10	4133992.20	0.00	0.00	0.00
DISCCART	604449.10	4133992.20	0.00	0.00	0.00
DISCCART	604469.10	4133992.20	0.00	0.00	0.00
DISCCART	603769.10	4134012.20	0.00	0.00	0.00
DISCCART	603789.10	4134012.20	0.00	0.00	0.00
DISCCART	603809.10	4134012.20	0.00	0.00	0.00
DISCCART	603829.10	4134012.20	0.00	0.00	0.00
DISCCART	603869.10	4134012.20	0.00	0.00	0.00

Eastridge\_BART

DISCCART	603909.10	4134012.20	0.00	0.00	0.00
DISCCART	603949.10	4134012.20	0.00	0.00	0.00
DISCCART	603969.10	4134012.20	0.00	0.00	0.00
DISCCART	603989.10	4134012.20	0.00	0.00	0.00
DISCCART	604009.10	4134012.20	0.00	0.00	0.00
DISCCART	604029.10	4134012.20	0.00	0.00	0.00
DISCCART	604049.10	4134012.20	0.00	0.00	0.00
DISCCART	604169.10	4134012.20	0.00	0.00	0.00
DISCCART	604189.10	4134012.20	0.00	0.00	0.00
DISCCART	604209.10	4134012.20	0.00	0.00	0.00
DISCCART	604229.10	4134012.20	0.00	0.00	0.00
DISCCART	604269.10	4134012.20	0.00	0.00	0.00
DISCCART	604289.10	4134012.20	0.00	0.00	0.00
DISCCART	604309.10	4134012.20	0.00	0.00	0.00
DISCCART	604329.10	4134012.20	0.00	0.00	0.00
DISCCART	604349.10	4134012.20	0.00	0.00	0.00
DISCCART	604369.10	4134012.20	0.00	0.00	0.00
DISCCART	604409.10	4134012.20	0.00	0.00	0.00
DISCCART	604429.10	4134012.20	0.00	0.00	0.00
DISCCART	604449.10	4134012.20	0.00	0.00	0.00
DISCCART	603749.10	4134032.20	0.00	0.00	0.00
DISCCART	603769.10	4134032.20	0.00	0.00	0.00
DISCCART	603789.10	4134032.20	0.00	0.00	0.00
DISCCART	603809.10	4134032.20	0.00	0.00	0.00
DISCCART	603849.10	4134032.20	0.00	0.00	0.00
DISCCART	603889.10	4134032.20	0.00	0.00	0.00
DISCCART	603909.10	4134032.20	0.00	0.00	0.00
DISCCART	603929.10	4134032.20	0.00	0.00	0.00
DISCCART	603969.10	4134032.20	0.00	0.00	0.00
DISCCART	603989.10	4134032.20	0.00	0.00	0.00
DISCCART	604009.10	4134032.20	0.00	0.00	0.00
DISCCART	604029.10	4134032.20	0.00	0.00	0.00
DISCCART	604049.10	4134032.20	0.00	0.00	0.00
DISCCART	604069.10	4134032.20	0.00	0.00	0.00
DISCCART	604169.10	4134032.20	0.00	0.00	0.00
DISCCART	604189.10	4134032.20	0.00	0.00	0.00
DISCCART	604209.10	4134032.20	0.00	0.00	0.00
DISCCART	604229.10	4134032.20	0.00	0.00	0.00
DISCCART	604249.10	4134032.20	0.00	0.00	0.00
DISCCART	604309.10	4134032.20	0.00	0.00	0.00
DISCCART	604329.10	4134032.20	0.00	0.00	0.00
DISCCART	604349.10	4134032.20	0.00	0.00	0.00
DISCCART	604369.10	4134032.20	0.00	0.00	0.00
DISCCART	604389.10	4134032.20	0.00	0.00	0.00
DISCCART	604409.10	4134032.20	0.00	0.00	0.00
DISCCART	604429.10	4134032.20	0.00	0.00	0.00
DISCCART	604449.10	4134032.20	0.00	0.00	0.00
DISCCART	603729.10	4134052.20	0.00	0.00	0.00

Eastridge\_BART

DISCCART	603749.10	4134052.20	0.00	0.00	0.00
DISCCART	603769.10	4134052.20	0.00	0.00	0.00
DISCCART	603789.10	4134052.20	0.00	0.00	0.00
DISCCART	603809.10	4134052.20	0.00	0.00	0.00
DISCCART	603829.10	4134052.20	0.00	0.00	0.00
DISCCART	603869.10	4134052.20	0.00	0.00	0.00
DISCCART	603889.10	4134052.20	0.00	0.00	0.00
DISCCART	603909.10	4134052.20	0.00	0.00	0.00
DISCCART	603929.10	4134052.20	0.00	0.00	0.00
DISCCART	603949.10	4134052.20	0.00	0.00	0.00
DISCCART	603989.10	4134052.20	0.00	0.00	0.00
DISCCART	604009.10	4134052.20	0.00	0.00	0.00
DISCCART	604029.10	4134052.20	0.00	0.00	0.00
DISCCART	604049.10	4134052.20	0.00	0.00	0.00
DISCCART	604149.10	4134052.20	0.00	0.00	0.00
DISCCART	604189.10	4134052.20	0.00	0.00	0.00
DISCCART	604209.10	4134052.20	0.00	0.00	0.00
DISCCART	604229.10	4134052.20	0.00	0.00	0.00
DISCCART	604249.10	4134052.20	0.00	0.00	0.00
DISCCART	604269.10	4134052.20	0.00	0.00	0.00
DISCCART	604289.10	4134052.20	0.00	0.00	0.00
DISCCART	604349.10	4134052.20	0.00	0.00	0.00
DISCCART	604369.10	4134052.20	0.00	0.00	0.00
DISCCART	604389.10	4134052.20	0.00	0.00	0.00
DISCCART	604409.10	4134052.20	0.00	0.00	0.00
DISCCART	604429.10	4134052.20	0.00	0.00	0.00
DISCCART	603709.10	4134072.20	0.00	0.00	0.00
DISCCART	603729.10	4134072.20	0.00	0.00	0.00
DISCCART	603769.10	4134072.20	0.00	0.00	0.00
DISCCART	603789.10	4134072.20	0.00	0.00	0.00
DISCCART	603829.10	4134072.20	0.00	0.00	0.00
DISCCART	603849.10	4134072.20	0.00	0.00	0.00
DISCCART	603869.10	4134072.20	0.00	0.00	0.00
DISCCART	603889.10	4134072.20	0.00	0.00	0.00
DISCCART	603909.10	4134072.20	0.00	0.00	0.00
DISCCART	603929.10	4134072.20	0.00	0.00	0.00
DISCCART	603949.10	4134072.20	0.00	0.00	0.00
DISCCART	603969.10	4134072.20	0.00	0.00	0.00
DISCCART	604009.10	4134072.20	0.00	0.00	0.00
DISCCART	604029.10	4134072.20	0.00	0.00	0.00
DISCCART	604049.10	4134072.20	0.00	0.00	0.00
DISCCART	604149.10	4134072.20	0.00	0.00	0.00
DISCCART	604169.10	4134072.20	0.00	0.00	0.00
DISCCART	604229.10	4134072.20	0.00	0.00	0.00
DISCCART	604249.10	4134072.20	0.00	0.00	0.00
DISCCART	604269.10	4134072.20	0.00	0.00	0.00
DISCCART	604289.10	4134072.20	0.00	0.00	0.00
DISCCART	604309.10	4134072.20	0.00	0.00	0.00



Eastridge\_BART

DISCCART	604329.10	4134072.20	0.00	0.00	0.00
DISCCART	604389.10	4134072.20	0.00	0.00	0.00
DISCCART	604409.10	4134072.20	0.00	0.00	0.00
DISCCART	604429.10	4134072.20	0.00	0.00	0.00
DISCCART	603709.10	4134092.20	0.00	0.00	0.00
DISCCART	603749.10	4134092.20	0.00	0.00	0.00
DISCCART	603769.10	4134092.20	0.00	0.00	0.00
DISCCART	603809.10	4134092.20	0.00	0.00	0.00
DISCCART	603849.10	4134092.20	0.00	0.00	0.00
DISCCART	603869.10	4134092.20	0.00	0.00	0.00
DISCCART	603889.10	4134092.20	0.00	0.00	0.00
DISCCART	603909.10	4134092.20	0.00	0.00	0.00
DISCCART	603929.10	4134092.20	0.00	0.00	0.00
DISCCART	603949.10	4134092.20	0.00	0.00	0.00
DISCCART	603969.10	4134092.20	0.00	0.00	0.00
DISCCART	603989.10	4134092.20	0.00	0.00	0.00
DISCCART	604029.10	4134092.20	0.00	0.00	0.00
DISCCART	604129.10	4134092.20	0.00	0.00	0.00
DISCCART	604149.10	4134092.20	0.00	0.00	0.00
DISCCART	604169.10	4134092.20	0.00	0.00	0.00
DISCCART	604189.10	4134092.20	0.00	0.00	0.00
DISCCART	604209.10	4134092.20	0.00	0.00	0.00
DISCCART	604269.10	4134092.20	0.00	0.00	0.00
DISCCART	604289.10	4134092.20	0.00	0.00	0.00
DISCCART	604309.10	4134092.20	0.00	0.00	0.00
DISCCART	604329.10	4134092.20	0.00	0.00	0.00
DISCCART	604369.10	4134092.20	0.00	0.00	0.00
DISCCART	604389.10	4134092.20	0.00	0.00	0.00
DISCCART	604409.10	4134092.20	0.00	0.00	0.00
DISCCART	603629.10	4134112.20	0.00	0.00	0.00
DISCCART	603729.10	4134112.20	0.00	0.00	0.00
DISCCART	603749.10	4134112.20	0.00	0.00	0.00
DISCCART	603769.10	4134112.20	0.00	0.00	0.00
DISCCART	603789.10	4134112.20	0.00	0.00	0.00
DISCCART	603849.10	4134112.20	0.00	0.00	0.00
DISCCART	603869.10	4134112.20	0.00	0.00	0.00
DISCCART	603889.10	4134112.20	0.00	0.00	0.00
DISCCART	603929.10	4134112.20	0.00	0.00	0.00
DISCCART	603949.10	4134112.20	0.00	0.00	0.00
DISCCART	603969.10	4134112.20	0.00	0.00	0.00
DISCCART	604009.10	4134112.20	0.00	0.00	0.00
DISCCART	604029.10	4134112.20	0.00	0.00	0.00
DISCCART	604149.10	4134112.20	0.00	0.00	0.00
DISCCART	604169.10	4134112.20	0.00	0.00	0.00
DISCCART	604189.10	4134112.20	0.00	0.00	0.00
DISCCART	604209.10	4134112.20	0.00	0.00	0.00
DISCCART	604229.10	4134112.20	0.00	0.00	0.00
DISCCART	604249.10	4134112.20	0.00	0.00	0.00

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DISCCART	604289.10	4134112.20	0.00	0.00	0.00
DISCCART	604309.10	4134112.20	0.00	0.00	0.00
DISCCART	604329.10	4134112.20	0.00	0.00	0.00
DISCCART	604349.10	4134112.20	0.00	0.00	0.00
DISCCART	604369.10	4134112.20	0.00	0.00	0.00
DISCCART	604389.10	4134112.20	0.00	0.00	0.00
DISCCART	604409.10	4134112.20	0.00	0.00	0.00
DISCCART	603629.10	4134132.20	0.00	0.00	0.00
DISCCART	603649.10	4134132.20	0.00	0.00	0.00
DISCCART	603689.10	4134132.20	0.00	0.00	0.00
DISCCART	603709.10	4134132.20	0.00	0.00	0.00
DISCCART	603729.10	4134132.20	0.00	0.00	0.00
DISCCART	603749.10	4134132.20	0.00	0.00	0.00
DISCCART	603769.10	4134132.20	0.00	0.00	0.00
DISCCART	603809.10	4134132.20	0.00	0.00	0.00
DISCCART	603829.10	4134132.20	0.00	0.00	0.00
DISCCART	603869.10	4134132.20	0.00	0.00	0.00
DISCCART	603889.10	4134132.20	0.00	0.00	0.00
DISCCART	603929.10	4134132.20	0.00	0.00	0.00
DISCCART	603949.10	4134132.20	0.00	0.00	0.00
DISCCART	603969.10	4134132.20	0.00	0.00	0.00
DISCCART	604009.10	4134132.20	0.00	0.00	0.00
DISCCART	604109.10	4134132.20	0.00	0.00	0.00
DISCCART	604129.10	4134132.20	0.00	0.00	0.00
DISCCART	604189.10	4134132.20	0.00	0.00	0.00
DISCCART	604209.10	4134132.20	0.00	0.00	0.00
DISCCART	604229.10	4134132.20	0.00	0.00	0.00
DISCCART	604249.10	4134132.20	0.00	0.00	0.00
DISCCART	604269.10	4134132.20	0.00	0.00	0.00
DISCCART	604289.10	4134132.20	0.00	0.00	0.00
DISCCART	604349.10	4134132.20	0.00	0.00	0.00
DISCCART	604369.10	4134132.20	0.00	0.00	0.00
DISCCART	604389.10	4134132.20	0.00	0.00	0.00
DISCCART	603609.10	4134152.20	0.00	0.00	0.00
DISCCART	603629.10	4134152.20	0.00	0.00	0.00
DISCCART	603649.10	4134152.20	0.00	0.00	0.00
DISCCART	603669.10	4134152.20	0.00	0.00	0.00
DISCCART	603689.10	4134152.20	0.00	0.00	0.00
DISCCART	603709.10	4134152.20	0.00	0.00	0.00
DISCCART	603729.10	4134152.20	0.00	0.00	0.00
DISCCART	603749.10	4134152.20	0.00	0.00	0.00
DISCCART	603789.10	4134152.20	0.00	0.00	0.00
DISCCART	603809.10	4134152.20	0.00	0.00	0.00
DISCCART	603829.10	4134152.20	0.00	0.00	0.00
DISCCART	603849.10	4134152.20	0.00	0.00	0.00
DISCCART	603909.10	4134152.20	0.00	0.00	0.00
DISCCART	603929.10	4134152.20	0.00	0.00	0.00
DISCCART	603949.10	4134152.20	0.00	0.00	0.00

Eastridge\_BART

DISCCART	603989.10	4134152.20	0.00	0.00	0.00
DISCCART	604009.10	4134152.20	0.00	0.00	0.00
DISCCART	604089.10	4134152.20	0.00	0.00	0.00
DISCCART	604109.10	4134152.20	0.00	0.00	0.00
DISCCART	604129.10	4134152.20	0.00	0.00	0.00
DISCCART	604149.10	4134152.20	0.00	0.00	0.00
DISCCART	604169.10	4134152.20	0.00	0.00	0.00
DISCCART	604229.10	4134152.20	0.00	0.00	0.00
DISCCART	604249.10	4134152.20	0.00	0.00	0.00
DISCCART	604269.10	4134152.20	0.00	0.00	0.00
DISCCART	604289.10	4134152.20	0.00	0.00	0.00
DISCCART	604309.10	4134152.20	0.00	0.00	0.00
DISCCART	604329.10	4134152.20	0.00	0.00	0.00
DISCCART	604349.10	4134152.20	0.00	0.00	0.00
DISCCART	604369.10	4134152.20	0.00	0.00	0.00
DISCCART	603629.10	4134172.20	0.00	0.00	0.00
DISCCART	603649.10	4134172.20	0.00	0.00	0.00
DISCCART	603669.10	4134172.20	0.00	0.00	0.00
DISCCART	603689.10	4134172.20	0.00	0.00	0.00
DISCCART	603709.10	4134172.20	0.00	0.00	0.00
DISCCART	603729.10	4134172.20	0.00	0.00	0.00
DISCCART	603749.10	4134172.20	0.00	0.00	0.00
DISCCART	603769.10	4134172.20	0.00	0.00	0.00
DISCCART	603809.10	4134172.20	0.00	0.00	0.00
DISCCART	603829.10	4134172.20	0.00	0.00	0.00
DISCCART	603849.10	4134172.20	0.00	0.00	0.00
DISCCART	603869.10	4134172.20	0.00	0.00	0.00
DISCCART	603909.10	4134172.20	0.00	0.00	0.00
DISCCART	603929.10	4134172.20	0.00	0.00	0.00
DISCCART	603949.10	4134172.20	0.00	0.00	0.00
DISCCART	603989.10	4134172.20	0.00	0.00	0.00
DISCCART	604109.10	4134172.20	0.00	0.00	0.00
DISCCART	604129.10	4134172.20	0.00	0.00	0.00
DISCCART	604149.10	4134172.20	0.00	0.00	0.00
DISCCART	604169.10	4134172.20	0.00	0.00	0.00
DISCCART	604189.10	4134172.20	0.00	0.00	0.00
DISCCART	604209.10	4134172.20	0.00	0.00	0.00
DISCCART	604249.10	4134172.20	0.00	0.00	0.00
DISCCART	604269.10	4134172.20	0.00	0.00	0.00
DISCCART	604289.10	4134172.20	0.00	0.00	0.00
DISCCART	604309.10	4134172.20	0.00	0.00	0.00
DISCCART	604329.10	4134172.20	0.00	0.00	0.00
DISCCART	604349.10	4134172.20	0.00	0.00	0.00
DISCCART	604369.10	4134172.20	0.00	0.00	0.00
DISCCART	603649.10	4134192.20	0.00	0.00	0.00
DISCCART	603669.10	4134192.20	0.00	0.00	0.00
DISCCART	603689.10	4134192.20	0.00	0.00	0.00
DISCCART	603709.10	4134192.20	0.00	0.00	0.00

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DISCCART	603729.10	4134192.20	0.00	0.00	0.00
DISCCART	603749.10	4134192.20	0.00	0.00	0.00
DISCCART	603769.10	4134192.20	0.00	0.00	0.00
DISCCART	603829.10	4134192.20	0.00	0.00	0.00
DISCCART	603849.10	4134192.20	0.00	0.00	0.00
DISCCART	603869.10	4134192.20	0.00	0.00	0.00
DISCCART	603889.10	4134192.20	0.00	0.00	0.00
DISCCART	603909.10	4134192.20	0.00	0.00	0.00
DISCCART	603929.10	4134192.20	0.00	0.00	0.00
DISCCART	603969.10	4134192.20	0.00	0.00	0.00
DISCCART	603989.10	4134192.20	0.00	0.00	0.00
DISCCART	604069.10	4134192.20	0.00	0.00	0.00
DISCCART	604089.10	4134192.20	0.00	0.00	0.00
DISCCART	604109.10	4134192.20	0.00	0.00	0.00
** DESCRREC	"School" "Ryan Elementary"				
DISCCART	604129.10	4134192.20	0.00	0.00	0.00
DISCCART	604149.10	4134192.20	0.00	0.00	0.00
DISCCART	604169.10	4134192.20	0.00	0.00	0.00
** DESCRREC	" " "				
DISCCART	604189.10	4134192.20	0.00	0.00	0.00
DISCCART	604209.10	4134192.20	0.00	0.00	0.00
DISCCART	604229.10	4134192.20	0.00	0.00	0.00
DISCCART	604289.10	4134192.20	0.00	0.00	0.00
DISCCART	604309.10	4134192.20	0.00	0.00	0.00
DISCCART	604329.10	4134192.20	0.00	0.00	0.00
DISCCART	604349.10	4134192.20	0.00	0.00	0.00
DISCCART	603669.10	4134212.20	0.00	0.00	0.00
DISCCART	603689.10	4134212.20	0.00	0.00	0.00
DISCCART	603709.10	4134212.20	0.00	0.00	0.00
DISCCART	603729.10	4134212.20	0.00	0.00	0.00
DISCCART	603749.10	4134212.20	0.00	0.00	0.00
DISCCART	603789.10	4134212.20	0.00	0.00	0.00
DISCCART	603809.10	4134212.20	0.00	0.00	0.00
DISCCART	603849.10	4134212.20	0.00	0.00	0.00
DISCCART	603869.10	4134212.20	0.00	0.00	0.00
DISCCART	603889.10	4134212.20	0.00	0.00	0.00
DISCCART	603909.10	4134212.20	0.00	0.00	0.00
DISCCART	603929.10	4134212.20	0.00	0.00	0.00
DISCCART	603949.10	4134212.20	0.00	0.00	0.00
DISCCART	603969.10	4134212.20	0.00	0.00	0.00
DISCCART	604069.10	4134212.20	0.00	0.00	0.00
DISCCART	604089.10	4134212.20	0.00	0.00	0.00
DISCCART	604109.10	4134212.20	0.00	0.00	0.00
** DESCRREC	"School" "Ryan Elementary"				
DISCCART	604129.10	4134212.20	0.00	0.00	0.00
DISCCART	604149.10	4134212.20	0.00	0.00	0.00
DISCCART	604169.10	4134212.20	0.00	0.00	0.00
DISCCART	604189.10	4134212.20	0.00	0.00	0.00

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	DISCCART	604209.10	4134212.20	0.00	0.00	0.00
**	DESCRREC	""	""			
	DISCCART	604229.10	4134212.20	0.00	0.00	0.00
	DISCCART	604249.10	4134212.20	0.00	0.00	0.00
	DISCCART	604269.10	4134212.20	0.00	0.00	0.00
	DISCCART	604329.10	4134212.20	0.00	0.00	0.00
	DISCCART	604349.10	4134212.20	0.00	0.00	0.00
	DISCCART	603609.10	4134232.20	0.00	0.00	0.00
	DISCCART	603689.10	4134232.20	0.00	0.00	0.00
	DISCCART	603709.10	4134232.20	0.00	0.00	0.00
	DISCCART	603729.10	4134232.20	0.00	0.00	0.00
	DISCCART	603769.10	4134232.20	0.00	0.00	0.00
	DISCCART	603789.10	4134232.20	0.00	0.00	0.00
	DISCCART	603809.10	4134232.20	0.00	0.00	0.00
	DISCCART	603829.10	4134232.20	0.00	0.00	0.00
	DISCCART	603869.10	4134232.20	0.00	0.00	0.00
	DISCCART	603889.10	4134232.20	0.00	0.00	0.00
	DISCCART	603909.10	4134232.20	0.00	0.00	0.00
	DISCCART	603949.10	4134232.20	0.00	0.00	0.00
	DISCCART	604069.10	4134232.20	0.00	0.00	0.00
	DISCCART	604089.10	4134232.20	0.00	0.00	0.00
**	DESCRREC	"School"	"Ryan Elementary"			
	DISCCART	604109.10	4134232.20	0.00	0.00	0.00
	DISCCART	604129.10	4134232.20	0.00	0.00	0.00
	DISCCART	604149.10	4134232.20	0.00	0.00	0.00
	DISCCART	604169.10	4134232.20	0.00	0.00	0.00
	DISCCART	604189.10	4134232.20	0.00	0.00	0.00
	DISCCART	604209.10	4134232.20	0.00	0.00	0.00
	DISCCART	604229.10	4134232.20	0.00	0.00	0.00
	DISCCART	604249.10	4134232.20	0.00	0.00	0.00
**	DESCRREC	""	""			
	DISCCART	604269.10	4134232.20	0.00	0.00	0.00
	DISCCART	604289.10	4134232.20	0.00	0.00	0.00
	DISCCART	604309.10	4134232.20	0.00	0.00	0.00
	DISCCART	603609.10	4134252.20	0.00	0.00	0.00
	DISCCART	603629.10	4134252.20	0.00	0.00	0.00
	DISCCART	603649.10	4134252.20	0.00	0.00	0.00
	DISCCART	603709.10	4134252.20	0.00	0.00	0.00
	DISCCART	603749.10	4134252.20	0.00	0.00	0.00
	DISCCART	603789.10	4134252.20	0.00	0.00	0.00
	DISCCART	603809.10	4134252.20	0.00	0.00	0.00
	DISCCART	603829.10	4134252.20	0.00	0.00	0.00
	DISCCART	603849.10	4134252.20	0.00	0.00	0.00
	DISCCART	603889.10	4134252.20	0.00	0.00	0.00
	DISCCART	603929.10	4134252.20	0.00	0.00	0.00
	DISCCART	603949.10	4134252.20	0.00	0.00	0.00
	DISCCART	604029.10	4134252.20	0.00	0.00	0.00
	DISCCART	604049.10	4134252.20	0.00	0.00	0.00

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**	DESCRREC	"School"	"Ryan Elementary"			
	DISCCART	604089.10	4134252.20	0.00	0.00	0.00
	DISCCART	604109.10	4134252.20	0.00	0.00	0.00
	DISCCART	604129.10	4134252.20	0.00	0.00	0.00
	DISCCART	604149.10	4134252.20	0.00	0.00	0.00
	DISCCART	604169.10	4134252.20	0.00	0.00	0.00
	DISCCART	604189.10	4134252.20	0.00	0.00	0.00
	DISCCART	604209.10	4134252.20	0.00	0.00	0.00
	DISCCART	604229.10	4134252.20	0.00	0.00	0.00
	DISCCART	604249.10	4134252.20	0.00	0.00	0.00
	DISCCART	604269.10	4134252.20	0.00	0.00	0.00
**	DESCRREC	""	""			
	DISCCART	604289.10	4134252.20	0.00	0.00	0.00
	DISCCART	604309.10	4134252.20	0.00	0.00	0.00
	DISCCART	604329.10	4134252.20	0.00	0.00	0.00
	DISCCART	603609.10	4134272.20	0.00	0.00	0.00
	DISCCART	603629.10	4134272.20	0.00	0.00	0.00
	DISCCART	603649.10	4134272.20	0.00	0.00	0.00
	DISCCART	603669.10	4134272.20	0.00	0.00	0.00
	DISCCART	603749.10	4134272.20	0.00	0.00	0.00
	DISCCART	603769.10	4134272.20	0.00	0.00	0.00
	DISCCART	603809.10	4134272.20	0.00	0.00	0.00
	DISCCART	603829.10	4134272.20	0.00	0.00	0.00
	DISCCART	603849.10	4134272.20	0.00	0.00	0.00
	DISCCART	603869.10	4134272.20	0.00	0.00	0.00
	DISCCART	603929.10	4134272.20	0.00	0.00	0.00
	DISCCART	604029.10	4134272.20	0.00	0.00	0.00
	DISCCART	604049.10	4134272.20	0.00	0.00	0.00
	DISCCART	604069.10	4134272.20	0.00	0.00	0.00
**	DESCRREC	"School"	"Ryan Elementary"			
	DISCCART	604089.10	4134272.20	0.00	0.00	0.00
	DISCCART	604109.10	4134272.20	0.00	0.00	0.00
	DISCCART	604129.10	4134272.20	0.00	0.00	0.00
	DISCCART	604149.10	4134272.20	0.00	0.00	0.00
	DISCCART	604169.10	4134272.20	0.00	0.00	0.00
	DISCCART	604189.10	4134272.20	0.00	0.00	0.00
	DISCCART	604209.10	4134272.20	0.00	0.00	0.00
	DISCCART	604229.10	4134272.20	0.00	0.00	0.00
	DISCCART	604249.10	4134272.20	0.00	0.00	0.00
	DISCCART	604269.10	4134272.20	0.00	0.00	0.00
	DISCCART	604289.10	4134272.20	0.00	0.00	0.00
	DISCCART	604309.10	4134272.20	0.00	0.00	0.00
**	DESCRREC	""	""			
	DISCCART	603609.10	4134292.20	0.00	0.00	0.00
	DISCCART	603629.10	4134292.20	0.00	0.00	0.00
	DISCCART	603649.10	4134292.20	0.00	0.00	0.00
	DISCCART	603669.10	4134292.20	0.00	0.00	0.00
	DISCCART	603689.10	4134292.20	0.00	0.00	0.00

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DISCCART	603769.10	4134292.20	0.00	0.00	0.00
DISCCART	603789.10	4134292.20	0.00	0.00	0.00
DISCCART	603809.10	4134292.20	0.00	0.00	0.00
DISCCART	603829.10	4134292.20	0.00	0.00	0.00
DISCCART	603849.10	4134292.20	0.00	0.00	0.00
DISCCART	603869.10	4134292.20	0.00	0.00	0.00
DISCCART	603889.10	4134292.20	0.00	0.00	0.00
DISCCART	603909.10	4134292.20	0.00	0.00	0.00
DISCCART	603929.10	4134292.20	0.00	0.00	0.00
DISCCART	604029.10	4134292.20	0.00	0.00	0.00
DISCCART	604049.10	4134292.20	0.00	0.00	0.00
** DESCRREC	"School" "Ryan Elementary"				
DISCCART	604069.10	4134292.20	0.00	0.00	0.00
DISCCART	604089.10	4134292.20	0.00	0.00	0.00
DISCCART	604109.10	4134292.20	0.00	0.00	0.00
DISCCART	604129.10	4134292.20	0.00	0.00	0.00
DISCCART	604149.10	4134292.20	0.00	0.00	0.00
DISCCART	604169.10	4134292.20	0.00	0.00	0.00
DISCCART	604189.10	4134292.20	0.00	0.00	0.00
DISCCART	604209.10	4134292.20	0.00	0.00	0.00
DISCCART	604229.10	4134292.20	0.00	0.00	0.00
DISCCART	604249.10	4134292.20	0.00	0.00	0.00
DISCCART	604269.10	4134292.20	0.00	0.00	0.00
DISCCART	604289.10	4134292.20	0.00	0.00	0.00
** DESCRREC	" " "				
DISCCART	604309.10	4134292.20	0.00	0.00	0.00
DISCCART	603589.10	4134312.20	0.00	0.00	0.00
DISCCART	603629.10	4134312.20	0.00	0.00	0.00
DISCCART	603649.10	4134312.20	0.00	0.00	0.00
DISCCART	603669.10	4134312.20	0.00	0.00	0.00
DISCCART	603709.10	4134312.20	0.00	0.00	0.00
DISCCART	603789.10	4134312.20	0.00	0.00	0.00
DISCCART	603809.10	4134312.20	0.00	0.00	0.00
DISCCART	603829.10	4134312.20	0.00	0.00	0.00
DISCCART	603849.10	4134312.20	0.00	0.00	0.00
DISCCART	603869.10	4134312.20	0.00	0.00	0.00
DISCCART	603889.10	4134312.20	0.00	0.00	0.00
DISCCART	603909.10	4134312.20	0.00	0.00	0.00
DISCCART	604009.10	4134312.20	0.00	0.00	0.00
DISCCART	604049.10	4134312.20	0.00	0.00	0.00
DISCCART	604069.10	4134312.20	0.00	0.00	0.00
** DESCRREC	"School" "Ryan Elementary"				
DISCCART	604089.10	4134312.20	0.00	0.00	0.00
DISCCART	604109.10	4134312.20	0.00	0.00	0.00
DISCCART	604129.10	4134312.20	0.00	0.00	0.00
DISCCART	604149.10	4134312.20	0.00	0.00	0.00
DISCCART	604169.10	4134312.20	0.00	0.00	0.00
DISCCART	604189.10	4134312.20	0.00	0.00	0.00

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DISCCART	604209.10	4134312.20	0.00	0.00	0.00
DISCCART	604229.10	4134312.20	0.00	0.00	0.00
DISCCART	604249.10	4134312.20	0.00	0.00	0.00
DISCCART	604269.10	4134312.20	0.00	0.00	0.00
DISCCART	604289.10	4134312.20	0.00	0.00	0.00
** DESCRREC	""	""			
DISCCART	603589.10	4134332.20	0.00	0.00	0.00
DISCCART	603609.10	4134332.20	0.00	0.00	0.00
DISCCART	603689.10	4134332.20	0.00	0.00	0.00
DISCCART	603709.10	4134332.20	0.00	0.00	0.00
DISCCART	603729.10	4134332.20	0.00	0.00	0.00
DISCCART	603809.10	4134332.20	0.00	0.00	0.00
DISCCART	603829.10	4134332.20	0.00	0.00	0.00
DISCCART	603849.10	4134332.20	0.00	0.00	0.00
DISCCART	603909.10	4134332.20	0.00	0.00	0.00
DISCCART	603989.10	4134332.20	0.00	0.00	0.00
DISCCART	604009.10	4134332.20	0.00	0.00	0.00
DISCCART	604029.10	4134332.20	0.00	0.00	0.00
DISCCART	604069.10	4134332.20	0.00	0.00	0.00
DISCCART	604089.10	4134332.20	0.00	0.00	0.00
** DESCRREC	"School"	"Ryan Elementary"			
DISCCART	604109.10	4134332.20	0.00	0.00	0.00
DISCCART	604129.10	4134332.20	0.00	0.00	0.00
DISCCART	604149.10	4134332.20	0.00	0.00	0.00
DISCCART	604169.10	4134332.20	0.00	0.00	0.00
DISCCART	604189.10	4134332.20	0.00	0.00	0.00
DISCCART	604209.10	4134332.20	0.00	0.00	0.00
DISCCART	604229.10	4134332.20	0.00	0.00	0.00
DISCCART	604249.10	4134332.20	0.00	0.00	0.00
DISCCART	604269.10	4134332.20	0.00	0.00	0.00
** DESCRREC	""	""			
DISCCART	604289.10	4134332.20	0.00	0.00	0.00
DISCCART	603589.10	4134352.20	0.00	0.00	0.00
DISCCART	603609.10	4134352.20	0.00	0.00	0.00
DISCCART	603629.10	4134352.20	0.00	0.00	0.00
DISCCART	603689.10	4134352.20	0.00	0.00	0.00
DISCCART	603709.10	4134352.20	0.00	0.00	0.00
DISCCART	603729.10	4134352.20	0.00	0.00	0.00
DISCCART	603749.10	4134352.20	0.00	0.00	0.00
DISCCART	603829.10	4134352.20	0.00	0.00	0.00
DISCCART	603989.10	4134352.20	0.00	0.00	0.00
DISCCART	604009.10	4134352.20	0.00	0.00	0.00
DISCCART	604029.10	4134352.20	0.00	0.00	0.00
DISCCART	604049.10	4134352.20	0.00	0.00	0.00
DISCCART	604089.10	4134352.20	0.00	0.00	0.00
DISCCART	604109.10	4134352.20	0.00	0.00	0.00
** DESCRREC	"School"	"Ryan Elementary"			
DISCCART	604129.10	4134352.20	0.00	0.00	0.00



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DISCCART	604149.10	4134352.20	0.00	0.00	0.00
DISCCART	604169.10	4134352.20	0.00	0.00	0.00
DISCCART	604189.10	4134352.20	0.00	0.00	0.00
DISCCART	604209.10	4134352.20	0.00	0.00	0.00
DISCCART	604229.10	4134352.20	0.00	0.00	0.00
DISCCART	604249.10	4134352.20	0.00	0.00	0.00
** DESCRREC	""	""			
DISCCART	604269.10	4134352.20	0.00	0.00	0.00
DISCCART	603589.10	4134372.20	0.00	0.00	0.00
DISCCART	603609.10	4134372.20	0.00	0.00	0.00
DISCCART	603629.10	4134372.20	0.00	0.00	0.00
DISCCART	603709.10	4134372.20	0.00	0.00	0.00
DISCCART	603729.10	4134372.20	0.00	0.00	0.00
DISCCART	603749.10	4134372.20	0.00	0.00	0.00
DISCCART	603769.10	4134372.20	0.00	0.00	0.00
DISCCART	603969.10	4134372.20	0.00	0.00	0.00
DISCCART	603989.10	4134372.20	0.00	0.00	0.00
DISCCART	604009.10	4134372.20	0.00	0.00	0.00
DISCCART	604029.10	4134372.20	0.00	0.00	0.00
DISCCART	604049.10	4134372.20	0.00	0.00	0.00
DISCCART	604069.10	4134372.20	0.00	0.00	0.00
DISCCART	604129.10	4134372.20	0.00	0.00	0.00
** DESCRREC	"School"	"Ryan Elementary"			
DISCCART	604149.10	4134372.20	0.00	0.00	0.00
DISCCART	604169.10	4134372.20	0.00	0.00	0.00
DISCCART	604189.10	4134372.20	0.00	0.00	0.00
DISCCART	604209.10	4134372.20	0.00	0.00	0.00
DISCCART	604229.10	4134372.20	0.00	0.00	0.00
DISCCART	604249.10	4134372.20	0.00	0.00	0.00
** DESCRREC	""	""			
DISCCART	603569.10	4134392.20	0.00	0.00	0.00
DISCCART	603609.10	4134392.20	0.00	0.00	0.00
DISCCART	603649.10	4134392.20	0.00	0.00	0.00
DISCCART	603669.10	4134392.20	0.00	0.00	0.00
DISCCART	603689.10	4134392.20	0.00	0.00	0.00
DISCCART	603729.10	4134392.20	0.00	0.00	0.00
DISCCART	603749.10	4134392.20	0.00	0.00	0.00
DISCCART	603769.10	4134392.20	0.00	0.00	0.00
DISCCART	603789.10	4134392.20	0.00	0.00	0.00
DISCCART	603809.10	4134392.20	0.00	0.00	0.00
DISCCART	604009.10	4134392.20	0.00	0.00	0.00
DISCCART	604029.10	4134392.20	0.00	0.00	0.00
DISCCART	604049.10	4134392.20	0.00	0.00	0.00
DISCCART	604069.10	4134392.20	0.00	0.00	0.00
DISCCART	604089.10	4134392.20	0.00	0.00	0.00
DISCCART	604109.10	4134392.20	0.00	0.00	0.00
DISCCART	604149.10	4134392.20	0.00	0.00	0.00
DISCCART	604169.10	4134392.20	0.00	0.00	0.00

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** DESCRREC "School" "Ryan Elementary"
DISCCART 604189.10 4134392.20 0.00 0.00 0.00
DISCCART 604209.10 4134392.20 0.00 0.00 0.00
DISCCART 604229.10 4134392.20 0.00 0.00 0.00
** DESCRREC "" ""
DISCCART 604249.10 4134392.20 0.00 0.00 0.00
DISCCART 603549.10 4134412.20 0.00 0.00 0.00
DISCCART 603569.10 4134412.20 0.00 0.00 0.00
DISCCART 603589.10 4134412.20 0.00 0.00 0.00
DISCCART 603629.10 4134412.20 0.00 0.00 0.00
DISCCART 603649.10 4134412.20 0.00 0.00 0.00
DISCCART 603669.10 4134412.20 0.00 0.00 0.00
DISCCART 603689.10 4134412.20 0.00 0.00 0.00
DISCCART 603709.10 4134412.20 0.00 0.00 0.00
DISCCART 603749.10 4134412.20 0.00 0.00 0.00
DISCCART 603769.10 4134412.20 0.00 0.00 0.00
DISCCART 603789.10 4134412.20 0.00 0.00 0.00
DISCCART 603809.10 4134412.20 0.00 0.00 0.00
DISCCART 603829.10 4134412.20 0.00 0.00 0.00
DISCCART 604029.10 4134412.20 0.00 0.00 0.00
DISCCART 604049.10 4134412.20 0.00 0.00 0.00
DISCCART 604069.10 4134412.20 0.00 0.00 0.00
DISCCART 604089.10 4134412.20 0.00 0.00 0.00
DISCCART 604109.10 4134412.20 0.00 0.00 0.00
DISCCART 604129.10 4134412.20 0.00 0.00 0.00
DISCCART 604169.10 4134412.20 0.00 0.00 0.00
DISCCART 604189.10 4134412.20 0.00 0.00 0.00
** DESCRREC "School" "Ryan Elementary"
DISCCART 604209.10 4134412.20 0.00 0.00 0.00
DISCCART 604229.10 4134412.20 0.00 0.00 0.00
** DESCRREC "" ""
DISCCART 603529.10 4134432.20 0.00 0.00 0.00
DISCCART 603549.10 4134432.20 0.00 0.00 0.00
DISCCART 603569.10 4134432.20 0.00 0.00 0.00
DISCCART 603609.10 4134432.20 0.00 0.00 0.00
DISCCART 603649.10 4134432.20 0.00 0.00 0.00
DISCCART 603669.10 4134432.20 0.00 0.00 0.00
DISCCART 603689.10 4134432.20 0.00 0.00 0.00
DISCCART 603709.10 4134432.20 0.00 0.00 0.00
DISCCART 603729.10 4134432.20 0.00 0.00 0.00
DISCCART 603769.10 4134432.20 0.00 0.00 0.00
DISCCART 603789.10 4134432.20 0.00 0.00 0.00
DISCCART 603809.10 4134432.20 0.00 0.00 0.00
DISCCART 603829.10 4134432.20 0.00 0.00 0.00
DISCCART 603849.10 4134432.20 0.00 0.00 0.00
DISCCART 604049.10 4134432.20 0.00 0.00 0.00
DISCCART 604069.10 4134432.20 0.00 0.00 0.00
DISCCART 604089.10 4134432.20 0.00 0.00 0.00

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DISCCART	604109.10	4134432.20	0.00	0.00	0.00
DISCCART	604129.10	4134432.20	0.00	0.00	0.00
DISCCART	604149.10	4134432.20	0.00	0.00	0.00
DISCCART	604189.10	4134432.20	0.00	0.00	0.00
DISCCART	604209.10	4134432.20	0.00	0.00	0.00
DISCCART	604229.10	4134432.20	0.00	0.00	0.00
DISCCART	604269.10	4134432.20	0.00	0.00	0.00
DISCCART	604289.10	4134432.20	0.00	0.00	0.00
DISCCART	603529.10	4134452.20	0.00	0.00	0.00
DISCCART	603549.10	4134452.20	0.00	0.00	0.00
DISCCART	603609.10	4134452.20	0.00	0.00	0.00
DISCCART	603629.10	4134452.20	0.00	0.00	0.00
DISCCART	603669.10	4134452.20	0.00	0.00	0.00
DISCCART	603689.10	4134452.20	0.00	0.00	0.00
DISCCART	603709.10	4134452.20	0.00	0.00	0.00
DISCCART	603729.10	4134452.20	0.00	0.00	0.00
DISCCART	603749.10	4134452.20	0.00	0.00	0.00
DISCCART	603789.10	4134452.20	0.00	0.00	0.00
DISCCART	603809.10	4134452.20	0.00	0.00	0.00
DISCCART	603829.10	4134452.20	0.00	0.00	0.00
DISCCART	603849.10	4134452.20	0.00	0.00	0.00
DISCCART	604069.10	4134452.20	0.00	0.00	0.00
DISCCART	604089.10	4134452.20	0.00	0.00	0.00
DISCCART	604109.10	4134452.20	0.00	0.00	0.00
DISCCART	604129.10	4134452.20	0.00	0.00	0.00
DISCCART	604149.10	4134452.20	0.00	0.00	0.00
DISCCART	604169.10	4134452.20	0.00	0.00	0.00
DISCCART	604209.10	4134452.20	0.00	0.00	0.00
DISCCART	604249.10	4134452.20	0.00	0.00	0.00
DISCCART	604269.10	4134452.20	0.00	0.00	0.00
DISCCART	604329.10	4134452.20	0.00	0.00	0.00
DISCCART	603509.10	4134472.20	0.00	0.00	0.00
DISCCART	603529.10	4134472.20	0.00	0.00	0.00
DISCCART	603549.10	4134472.20	0.00	0.00	0.00
DISCCART	603589.10	4134472.20	0.00	0.00	0.00
DISCCART	603609.10	4134472.20	0.00	0.00	0.00
DISCCART	603629.10	4134472.20	0.00	0.00	0.00
DISCCART	603649.10	4134472.20	0.00	0.00	0.00
DISCCART	603689.10	4134472.20	0.00	0.00	0.00
DISCCART	603709.10	4134472.20	0.00	0.00	0.00
DISCCART	603729.10	4134472.20	0.00	0.00	0.00
DISCCART	603749.10	4134472.20	0.00	0.00	0.00
DISCCART	603789.10	4134472.20	0.00	0.00	0.00
DISCCART	603809.10	4134472.20	0.00	0.00	0.00
DISCCART	603829.10	4134472.20	0.00	0.00	0.00
DISCCART	603849.10	4134472.20	0.00	0.00	0.00
DISCCART	604109.10	4134472.20	0.00	0.00	0.00
DISCCART	604129.10	4134472.20	0.00	0.00	0.00

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DISCCART	604149.10	4134472.20	0.00	0.00	0.00
DISCCART	604169.10	4134472.20	0.00	0.00	0.00
DISCCART	604189.10	4134472.20	0.00	0.00	0.00
DISCCART	604229.10	4134472.20	0.00	0.00	0.00
DISCCART	604249.10	4134472.20	0.00	0.00	0.00
DISCCART	604269.10	4134472.20	0.00	0.00	0.00
DISCCART	604289.10	4134472.20	0.00	0.00	0.00
DISCCART	604309.10	4134472.20	0.00	0.00	0.00
DISCCART	604329.10	4134472.20	0.00	0.00	0.00
DISCCART	604349.10	4134472.20	0.00	0.00	0.00
** DESCRREC	"Rec" "CreekPath"				
DISCCART	603049.10	4134492.20	0.00	0.00	0.00
** DESCRREC	"" ""				
DISCCART	603509.10	4134492.20	0.00	0.00	0.00
DISCCART	603529.10	4134492.20	0.00	0.00	0.00
DISCCART	603569.10	4134492.20	0.00	0.00	0.00
DISCCART	603589.10	4134492.20	0.00	0.00	0.00
DISCCART	603609.10	4134492.20	0.00	0.00	0.00
DISCCART	603629.10	4134492.20	0.00	0.00	0.00
DISCCART	603669.10	4134492.20	0.00	0.00	0.00
DISCCART	603729.10	4134492.20	0.00	0.00	0.00
DISCCART	603769.10	4134492.20	0.00	0.00	0.00
DISCCART	603789.10	4134492.20	0.00	0.00	0.00
DISCCART	603809.10	4134492.20	0.00	0.00	0.00
DISCCART	603829.10	4134492.20	0.00	0.00	0.00
DISCCART	604129.10	4134492.20	0.00	0.00	0.00
DISCCART	604149.10	4134492.20	0.00	0.00	0.00
DISCCART	604169.10	4134492.20	0.00	0.00	0.00
DISCCART	604189.10	4134492.20	0.00	0.00	0.00
DISCCART	604229.10	4134492.20	0.00	0.00	0.00
DISCCART	604249.10	4134492.20	0.00	0.00	0.00
DISCCART	604269.10	4134492.20	0.00	0.00	0.00
DISCCART	604289.10	4134492.20	0.00	0.00	0.00
DISCCART	604309.10	4134492.20	0.00	0.00	0.00
DISCCART	604329.10	4134492.20	0.00	0.00	0.00
DISCCART	604349.10	4134492.20	0.00	0.00	0.00
DISCCART	604369.10	4134492.20	0.00	0.00	0.00
DISCCART	604389.10	4134492.20	0.00	0.00	0.00
** DESCRREC	"Rec" "CreekPath"				
DISCCART	603069.10	4134512.20	0.00	0.00	0.00
** DESCRREC	"" ""				
DISCCART	603489.10	4134512.20	0.00	0.00	0.00
DISCCART	603509.10	4134512.20	0.00	0.00	0.00
DISCCART	603549.10	4134512.20	0.00	0.00	0.00
DISCCART	603569.10	4134512.20	0.00	0.00	0.00
DISCCART	603589.10	4134512.20	0.00	0.00	0.00
DISCCART	603609.10	4134512.20	0.00	0.00	0.00
DISCCART	603629.10	4134512.20	0.00	0.00	0.00

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DISCCART	603669.10	4134512.20	0.00	0.00	0.00
DISCCART	603689.10	4134512.20	0.00	0.00	0.00
DISCCART	603769.10	4134512.20	0.00	0.00	0.00
DISCCART	603789.10	4134512.20	0.00	0.00	0.00
DISCCART	603809.10	4134512.20	0.00	0.00	0.00
DISCCART	604109.10	4134512.20	0.00	0.00	0.00
DISCCART	604129.10	4134512.20	0.00	0.00	0.00
DISCCART	604149.10	4134512.20	0.00	0.00	0.00
DISCCART	604169.10	4134512.20	0.00	0.00	0.00
DISCCART	604209.10	4134512.20	0.00	0.00	0.00
DISCCART	604229.10	4134512.20	0.00	0.00	0.00
DISCCART	604249.10	4134512.20	0.00	0.00	0.00
DISCCART	604269.10	4134512.20	0.00	0.00	0.00
DISCCART	604289.10	4134512.20	0.00	0.00	0.00
DISCCART	604309.10	4134512.20	0.00	0.00	0.00
DISCCART	604329.10	4134512.20	0.00	0.00	0.00
DISCCART	604349.10	4134512.20	0.00	0.00	0.00
DISCCART	604369.10	4134512.20	0.00	0.00	0.00
** DESCRREC	"Rec"	"CreekPath"			
DISCCART	603089.10	4134532.20	0.00	0.00	0.00
** DESCRREC	""	""			
DISCCART	603469.10	4134532.20	0.00	0.00	0.00
DISCCART	603489.10	4134532.20	0.00	0.00	0.00
DISCCART	603549.10	4134532.20	0.00	0.00	0.00
DISCCART	603569.10	4134532.20	0.00	0.00	0.00
DISCCART	603589.10	4134532.20	0.00	0.00	0.00
DISCCART	603609.10	4134532.20	0.00	0.00	0.00
DISCCART	603649.10	4134532.20	0.00	0.00	0.00
DISCCART	603669.10	4134532.20	0.00	0.00	0.00
DISCCART	603689.10	4134532.20	0.00	0.00	0.00
DISCCART	603709.10	4134532.20	0.00	0.00	0.00
DISCCART	603749.10	4134532.20	0.00	0.00	0.00
DISCCART	603769.10	4134532.20	0.00	0.00	0.00
DISCCART	603789.10	4134532.20	0.00	0.00	0.00
DISCCART	603809.10	4134532.20	0.00	0.00	0.00
DISCCART	604089.10	4134532.20	0.00	0.00	0.00
DISCCART	604109.10	4134532.20	0.00	0.00	0.00
DISCCART	604129.10	4134532.20	0.00	0.00	0.00
DISCCART	604149.10	4134532.20	0.00	0.00	0.00
DISCCART	604169.10	4134532.20	0.00	0.00	0.00
DISCCART	604209.10	4134532.20	0.00	0.00	0.00
DISCCART	604229.10	4134532.20	0.00	0.00	0.00
DISCCART	604269.10	4134532.20	0.00	0.00	0.00
DISCCART	604289.10	4134532.20	0.00	0.00	0.00
DISCCART	604309.10	4134532.20	0.00	0.00	0.00
DISCCART	604329.10	4134532.20	0.00	0.00	0.00
DISCCART	604349.10	4134532.20	0.00	0.00	0.00
DISCCART	604369.10	4134532.20	0.00	0.00	0.00

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DISCCART	603469.10	4134552.20	0.00	0.00	0.00
DISCCART	603489.10	4134552.20	0.00	0.00	0.00
DISCCART	603529.10	4134552.20	0.00	0.00	0.00
DISCCART	603549.10	4134552.20	0.00	0.00	0.00
DISCCART	603569.10	4134552.20	0.00	0.00	0.00
DISCCART	603589.10	4134552.20	0.00	0.00	0.00
DISCCART	603629.10	4134552.20	0.00	0.00	0.00
DISCCART	603649.10	4134552.20	0.00	0.00	0.00
DISCCART	603669.10	4134552.20	0.00	0.00	0.00
DISCCART	603689.10	4134552.20	0.00	0.00	0.00
DISCCART	603729.10	4134552.20	0.00	0.00	0.00
DISCCART	603749.10	4134552.20	0.00	0.00	0.00
DISCCART	603769.10	4134552.20	0.00	0.00	0.00
DISCCART	603789.10	4134552.20	0.00	0.00	0.00
DISCCART	604069.10	4134552.20	0.00	0.00	0.00
DISCCART	604089.10	4134552.20	0.00	0.00	0.00
DISCCART	604109.10	4134552.20	0.00	0.00	0.00
DISCCART	604129.10	4134552.20	0.00	0.00	0.00
DISCCART	604149.10	4134552.20	0.00	0.00	0.00
DISCCART	604189.10	4134552.20	0.00	0.00	0.00
DISCCART	604209.10	4134552.20	0.00	0.00	0.00
DISCCART	604229.10	4134552.20	0.00	0.00	0.00
DISCCART	604269.10	4134552.20	0.00	0.00	0.00
DISCCART	604289.10	4134552.20	0.00	0.00	0.00
DISCCART	604309.10	4134552.20	0.00	0.00	0.00
DISCCART	604329.10	4134552.20	0.00	0.00	0.00
DISCCART	604349.10	4134552.20	0.00	0.00	0.00
DISCCART	603509.10	4134572.20	0.00	0.00	0.00
DISCCART	603549.10	4134572.20	0.00	0.00	0.00
DISCCART	603569.10	4134572.20	0.00	0.00	0.00
DISCCART	603629.10	4134572.20	0.00	0.00	0.00
DISCCART	603649.10	4134572.20	0.00	0.00	0.00
DISCCART	603669.10	4134572.20	0.00	0.00	0.00
DISCCART	603689.10	4134572.20	0.00	0.00	0.00
DISCCART	603729.10	4134572.20	0.00	0.00	0.00
DISCCART	603749.10	4134572.20	0.00	0.00	0.00
DISCCART	603769.10	4134572.20	0.00	0.00	0.00
DISCCART	603789.10	4134572.20	0.00	0.00	0.00
DISCCART	604069.10	4134572.20	0.00	0.00	0.00
DISCCART	604089.10	4134572.20	0.00	0.00	0.00
DISCCART	604109.10	4134572.20	0.00	0.00	0.00
DISCCART	604129.10	4134572.20	0.00	0.00	0.00
DISCCART	604149.10	4134572.20	0.00	0.00	0.00
DISCCART	604189.10	4134572.20	0.00	0.00	0.00
DISCCART	604209.10	4134572.20	0.00	0.00	0.00
DISCCART	604249.10	4134572.20	0.00	0.00	0.00
DISCCART	604269.10	4134572.20	0.00	0.00	0.00
DISCCART	604289.10	4134572.20	0.00	0.00	0.00

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	DISCCART	604349.10	4134572.20	0.00	0.00	0.00
**	DESCRREC	"Rec"	"CreekPath"			
	DISCCART	603169.10	4134592.20	0.00	0.00	0.00
**	DESCRREC	""	""			
	DISCCART	603489.10	4134592.20	0.00	0.00	0.00
	DISCCART	603509.10	4134592.20	0.00	0.00	0.00
	DISCCART	603529.10	4134592.20	0.00	0.00	0.00
	DISCCART	603609.10	4134592.20	0.00	0.00	0.00
	DISCCART	603629.10	4134592.20	0.00	0.00	0.00
	DISCCART	603649.10	4134592.20	0.00	0.00	0.00
	DISCCART	603669.10	4134592.20	0.00	0.00	0.00
	DISCCART	603709.10	4134592.20	0.00	0.00	0.00
	DISCCART	603729.10	4134592.20	0.00	0.00	0.00
	DISCCART	603749.10	4134592.20	0.00	0.00	0.00
	DISCCART	603769.10	4134592.20	0.00	0.00	0.00
	DISCCART	604109.10	4134592.20	0.00	0.00	0.00
	DISCCART	604129.10	4134592.20	0.00	0.00	0.00
	DISCCART	604189.10	4134592.20	0.00	0.00	0.00
	DISCCART	604209.10	4134592.20	0.00	0.00	0.00
	DISCCART	604229.10	4134592.20	0.00	0.00	0.00
	DISCCART	604269.10	4134592.20	0.00	0.00	0.00
	DISCCART	604289.10	4134592.20	0.00	0.00	0.00
	DISCCART	604309.10	4134592.20	0.00	0.00	0.00
	DISCCART	604329.10	4134592.20	0.00	0.00	0.00
	DISCCART	604349.10	4134592.20	0.00	0.00	0.00
	DISCCART	604389.10	4134592.20	0.00	0.00	0.00
**	DESCRREC	"Rec"	"CreekPath"			
	DISCCART	603189.10	4134612.20	0.00	0.00	0.00
**	DESCRREC	""	""			
	DISCCART	603429.10	4134612.20	0.00	0.00	0.00
	DISCCART	603449.10	4134612.20	0.00	0.00	0.00
	DISCCART	603489.10	4134612.20	0.00	0.00	0.00
	DISCCART	603509.10	4134612.20	0.00	0.00	0.00
	DISCCART	603529.10	4134612.20	0.00	0.00	0.00
	DISCCART	603549.10	4134612.20	0.00	0.00	0.00
	DISCCART	603569.10	4134612.20	0.00	0.00	0.00
	DISCCART	603589.10	4134612.20	0.00	0.00	0.00
	DISCCART	603609.10	4134612.20	0.00	0.00	0.00
	DISCCART	603629.10	4134612.20	0.00	0.00	0.00
	DISCCART	603649.10	4134612.20	0.00	0.00	0.00
	DISCCART	603669.10	4134612.20	0.00	0.00	0.00
	DISCCART	603709.10	4134612.20	0.00	0.00	0.00
	DISCCART	603729.10	4134612.20	0.00	0.00	0.00
	DISCCART	603749.10	4134612.20	0.00	0.00	0.00
	DISCCART	603869.10	4134612.20	0.00	0.00	0.00
	DISCCART	604049.10	4134612.20	0.00	0.00	0.00
	DISCCART	604209.10	4134612.20	0.00	0.00	0.00
	DISCCART	604249.10	4134612.20	0.00	0.00	0.00

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	DISCCART	604289.10	4134612.20	0.00	0.00	0.00
	DISCCART	604349.10	4134612.20	0.00	0.00	0.00
	DISCCART	604389.10	4134612.20	0.00	0.00	0.00
**	DESCRREC	"Rec"	"CreekPath"			
	DISCCART	603209.10	4134632.20	0.00	0.00	0.00
	DISCCART	603229.10	4134632.20	0.00	0.00	0.00
**	DESCRREC	""	""			
	DISCCART	603429.10	4134632.20	0.00	0.00	0.00
	DISCCART	603469.10	4134632.20	0.00	0.00	0.00
	DISCCART	603489.10	4134632.20	0.00	0.00	0.00
	DISCCART	603509.10	4134632.20	0.00	0.00	0.00
	DISCCART	603529.10	4134632.20	0.00	0.00	0.00
	DISCCART	603549.10	4134632.20	0.00	0.00	0.00
	DISCCART	603569.10	4134632.20	0.00	0.00	0.00
	DISCCART	603589.10	4134632.20	0.00	0.00	0.00
	DISCCART	603609.10	4134632.20	0.00	0.00	0.00
	DISCCART	603629.10	4134632.20	0.00	0.00	0.00
	DISCCART	603649.10	4134632.20	0.00	0.00	0.00
	DISCCART	603689.10	4134632.20	0.00	0.00	0.00
	DISCCART	603709.10	4134632.20	0.00	0.00	0.00
	DISCCART	603729.10	4134632.20	0.00	0.00	0.00
	DISCCART	603749.10	4134632.20	0.00	0.00	0.00
	DISCCART	603849.10	4134632.20	0.00	0.00	0.00
	DISCCART	603869.10	4134632.20	0.00	0.00	0.00
	DISCCART	603889.10	4134632.20	0.00	0.00	0.00
	DISCCART	603909.10	4134632.20	0.00	0.00	0.00
	DISCCART	603989.10	4134632.20	0.00	0.00	0.00
	DISCCART	604049.10	4134632.20	0.00	0.00	0.00
	DISCCART	604069.10	4134632.20	0.00	0.00	0.00
	DISCCART	604269.10	4134632.20	0.00	0.00	0.00
	DISCCART	604309.10	4134632.20	0.00	0.00	0.00
	DISCCART	604369.10	4134632.20	0.00	0.00	0.00
**	DESCRREC	"Rec"	"CreekPath"			
	DISCCART	603229.10	4134652.20	0.00	0.00	0.00
	DISCCART	603249.10	4134652.20	0.00	0.00	0.00
	DISCCART	603269.10	4134652.20	0.00	0.00	0.00
**	DESCRREC	""	""			
	DISCCART	603409.10	4134652.20	0.00	0.00	0.00
	DISCCART	603509.10	4134652.20	0.00	0.00	0.00
	DISCCART	603529.10	4134652.20	0.00	0.00	0.00
	DISCCART	603549.10	4134652.20	0.00	0.00	0.00
	DISCCART	603569.10	4134652.20	0.00	0.00	0.00
	DISCCART	603589.10	4134652.20	0.00	0.00	0.00
	DISCCART	603609.10	4134652.20	0.00	0.00	0.00
	DISCCART	603629.10	4134652.20	0.00	0.00	0.00
	DISCCART	603649.10	4134652.20	0.00	0.00	0.00
	DISCCART	603689.10	4134652.20	0.00	0.00	0.00
	DISCCART	603709.10	4134652.20	0.00	0.00	0.00



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DISCCART	603729.10	4134652.20	0.00	0.00	0.00
DISCCART	603829.10	4134652.20	0.00	0.00	0.00
DISCCART	603849.10	4134652.20	0.00	0.00	0.00
DISCCART	603869.10	4134652.20	0.00	0.00	0.00
DISCCART	603889.10	4134652.20	0.00	0.00	0.00
DISCCART	603909.10	4134652.20	0.00	0.00	0.00
DISCCART	603929.10	4134652.20	0.00	0.00	0.00
DISCCART	603969.10	4134652.20	0.00	0.00	0.00
DISCCART	603989.10	4134652.20	0.00	0.00	0.00
DISCCART	604009.10	4134652.20	0.00	0.00	0.00
DISCCART	604029.10	4134652.20	0.00	0.00	0.00
DISCCART	604049.10	4134652.20	0.00	0.00	0.00
DISCCART	604069.10	4134652.20	0.00	0.00	0.00
DISCCART	604089.10	4134652.20	0.00	0.00	0.00
DISCCART	604289.10	4134652.20	0.00	0.00	0.00
DISCCART	604309.10	4134652.20	0.00	0.00	0.00
DISCCART	604349.10	4134652.20	0.00	0.00	0.00
DISCCART	603269.10	4134672.20	0.00	0.00	0.00
** DESCRREC	"Rec"	"CreekPath"			
DISCCART	603289.10	4134672.20	0.00	0.00	0.00
DISCCART	603309.10	4134672.20	0.00	0.00	0.00
DISCCART	603329.10	4134672.20	0.00	0.00	0.00
DISCCART	603349.10	4134672.20	0.00	0.00	0.00
** DESCRREC	""	""			
DISCCART	603409.10	4134672.20	0.00	0.00	0.00
DISCCART	603429.10	4134672.20	0.00	0.00	0.00
DISCCART	603449.10	4134672.20	0.00	0.00	0.00
DISCCART	603469.10	4134672.20	0.00	0.00	0.00
DISCCART	603489.10	4134672.20	0.00	0.00	0.00
DISCCART	603609.10	4134672.20	0.00	0.00	0.00
DISCCART	603629.10	4134672.20	0.00	0.00	0.00
DISCCART	603669.10	4134672.20	0.00	0.00	0.00
DISCCART	603689.10	4134672.20	0.00	0.00	0.00
DISCCART	603709.10	4134672.20	0.00	0.00	0.00
DISCCART	603729.10	4134672.20	0.00	0.00	0.00
DISCCART	603829.10	4134672.20	0.00	0.00	0.00
DISCCART	603849.10	4134672.20	0.00	0.00	0.00
DISCCART	603869.10	4134672.20	0.00	0.00	0.00
DISCCART	603889.10	4134672.20	0.00	0.00	0.00
DISCCART	603909.10	4134672.20	0.00	0.00	0.00
DISCCART	603929.10	4134672.20	0.00	0.00	0.00
DISCCART	603949.10	4134672.20	0.00	0.00	0.00
DISCCART	603969.10	4134672.20	0.00	0.00	0.00
DISCCART	603989.10	4134672.20	0.00	0.00	0.00
DISCCART	604009.10	4134672.20	0.00	0.00	0.00
DISCCART	604029.10	4134672.20	0.00	0.00	0.00
DISCCART	604049.10	4134672.20	0.00	0.00	0.00
DISCCART	604069.10	4134672.20	0.00	0.00	0.00

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	DISCCART	604349.10	4134672.20	0.00	0.00	0.00
**	DESCRREC	"Rec"	"CreekPath"			
	DISCCART	603329.10	4134692.20	0.00	0.00	0.00
	DISCCART	603349.10	4134692.20	0.00	0.00	0.00
	DISCCART	603369.10	4134692.20	0.00	0.00	0.00
	DISCCART	603389.10	4134692.20	0.00	0.00	0.00
	DISCCART	603409.10	4134692.20	0.00	0.00	0.00
	DISCCART	603429.10	4134692.20	0.00	0.00	0.00
**	DESCRREC	""	""			
	DISCCART	603449.10	4134692.20	0.00	0.00	0.00
	DISCCART	603469.10	4134692.20	0.00	0.00	0.00
	DISCCART	603489.10	4134692.20	0.00	0.00	0.00
	DISCCART	603509.10	4134692.20	0.00	0.00	0.00
	DISCCART	603529.10	4134692.20	0.00	0.00	0.00
	DISCCART	603549.10	4134692.20	0.00	0.00	0.00
	DISCCART	603569.10	4134692.20	0.00	0.00	0.00
	DISCCART	603589.10	4134692.20	0.00	0.00	0.00
	DISCCART	603669.10	4134692.20	0.00	0.00	0.00
	DISCCART	603689.10	4134692.20	0.00	0.00	0.00
	DISCCART	603709.10	4134692.20	0.00	0.00	0.00
	DISCCART	603809.10	4134692.20	0.00	0.00	0.00
	DISCCART	603829.10	4134692.20	0.00	0.00	0.00
	DISCCART	603849.10	4134692.20	0.00	0.00	0.00
	DISCCART	603869.10	4134692.20	0.00	0.00	0.00
	DISCCART	603889.10	4134692.20	0.00	0.00	0.00
	DISCCART	603909.10	4134692.20	0.00	0.00	0.00
	DISCCART	603929.10	4134692.20	0.00	0.00	0.00
	DISCCART	603949.10	4134692.20	0.00	0.00	0.00
	DISCCART	603969.10	4134692.20	0.00	0.00	0.00
	DISCCART	603989.10	4134692.20	0.00	0.00	0.00
	DISCCART	604009.10	4134692.20	0.00	0.00	0.00
	DISCCART	604029.10	4134692.20	0.00	0.00	0.00
	DISCCART	604149.10	4134692.20	0.00	0.00	0.00
	DISCCART	603369.10	4134712.20	0.00	0.00	0.00
	DISCCART	603389.10	4134712.20	0.00	0.00	0.00
	DISCCART	603409.10	4134712.20	0.00	0.00	0.00
**	DESCRREC	"Rec"	"CreekPath"			
	DISCCART	603429.10	4134712.20	0.00	0.00	0.00
	DISCCART	603449.10	4134712.20	0.00	0.00	0.00
	DISCCART	603469.10	4134712.20	0.00	0.00	0.00
	DISCCART	603489.10	4134712.20	0.00	0.00	0.00
	DISCCART	603509.10	4134712.20	0.00	0.00	0.00
	DISCCART	603529.10	4134712.20	0.00	0.00	0.00
**	DESCRREC	""	""			
	DISCCART	603549.10	4134712.20	0.00	0.00	0.00
	DISCCART	603569.10	4134712.20	0.00	0.00	0.00
	DISCCART	603589.10	4134712.20	0.00	0.00	0.00
	DISCCART	603609.10	4134712.20	0.00	0.00	0.00

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DISCCART	603629.10	4134712.20	0.00	0.00	0.00
DISCCART	603649.10	4134712.20	0.00	0.00	0.00
DISCCART	603709.10	4134712.20	0.00	0.00	0.00
DISCCART	603809.10	4134712.20	0.00	0.00	0.00
DISCCART	603829.10	4134712.20	0.00	0.00	0.00
DISCCART	603849.10	4134712.20	0.00	0.00	0.00
DISCCART	603869.10	4134712.20	0.00	0.00	0.00
DISCCART	603889.10	4134712.20	0.00	0.00	0.00
DISCCART	603909.10	4134712.20	0.00	0.00	0.00
DISCCART	603929.10	4134712.20	0.00	0.00	0.00
DISCCART	603949.10	4134712.20	0.00	0.00	0.00
DISCCART	603969.10	4134712.20	0.00	0.00	0.00
DISCCART	603989.10	4134712.20	0.00	0.00	0.00
DISCCART	604049.10	4134712.20	0.00	0.00	0.00
DISCCART	604069.10	4134712.20	0.00	0.00	0.00
DISCCART	604089.10	4134712.20	0.00	0.00	0.00
DISCCART	604169.10	4134712.20	0.00	0.00	0.00
DISCCART	603389.10	4134732.20	0.00	0.00	0.00
DISCCART	603409.10	4134732.20	0.00	0.00	0.00
DISCCART	603429.10	4134732.20	0.00	0.00	0.00
DISCCART	603449.10	4134732.20	0.00	0.00	0.00
DISCCART	603469.10	4134732.20	0.00	0.00	0.00
DISCCART	603489.10	4134732.20	0.00	0.00	0.00
DISCCART	603509.10	4134732.20	0.00	0.00	0.00
** DESCRREC	"Rec"	"CreekPath"			
DISCCART	603529.10	4134732.20	0.00	0.00	0.00
DISCCART	603549.10	4134732.20	0.00	0.00	0.00
DISCCART	603569.10	4134732.20	0.00	0.00	0.00
DISCCART	603589.10	4134732.20	0.00	0.00	0.00
DISCCART	603609.10	4134732.20	0.00	0.00	0.00
** DESCRREC	""	""			
DISCCART	603629.10	4134732.20	0.00	0.00	0.00
DISCCART	603649.10	4134732.20	0.00	0.00	0.00
DISCCART	603669.10	4134732.20	0.00	0.00	0.00
DISCCART	603689.10	4134732.20	0.00	0.00	0.00
DISCCART	603809.10	4134732.20	0.00	0.00	0.00
DISCCART	603829.10	4134732.20	0.00	0.00	0.00
DISCCART	603849.10	4134732.20	0.00	0.00	0.00
DISCCART	603869.10	4134732.20	0.00	0.00	0.00
DISCCART	603889.10	4134732.20	0.00	0.00	0.00
DISCCART	603909.10	4134732.20	0.00	0.00	0.00
DISCCART	603929.10	4134732.20	0.00	0.00	0.00
DISCCART	603949.10	4134732.20	0.00	0.00	0.00
DISCCART	603969.10	4134732.20	0.00	0.00	0.00
DISCCART	604009.10	4134732.20	0.00	0.00	0.00
DISCCART	604029.10	4134732.20	0.00	0.00	0.00
DISCCART	604049.10	4134732.20	0.00	0.00	0.00
DISCCART	604069.10	4134732.20	0.00	0.00	0.00

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DISCCART	604089.10	4134732.20	0.00	0.00	0.00
DISCCART	604109.10	4134732.20	0.00	0.00	0.00
DISCCART	604149.10	4134732.20	0.00	0.00	0.00
DISCCART	604169.10	4134732.20	0.00	0.00	0.00
DISCCART	604189.10	4134732.20	0.00	0.00	0.00
DISCCART	603369.10	4134752.20	0.00	0.00	0.00
DISCCART	603469.10	4134752.20	0.00	0.00	0.00
DISCCART	603489.10	4134752.20	0.00	0.00	0.00
DISCCART	603509.10	4134752.20	0.00	0.00	0.00
DISCCART	603529.10	4134752.20	0.00	0.00	0.00
DISCCART	603549.10	4134752.20	0.00	0.00	0.00
DISCCART	603569.10	4134752.20	0.00	0.00	0.00
DISCCART	603589.10	4134752.20	0.00	0.00	0.00
DISCCART	603609.10	4134752.20	0.00	0.00	0.00
** DESCRREC	"Rec" "CreekPath"				
DISCCART	603629.10	4134752.20	0.00	0.00	0.00
DISCCART	603649.10	4134752.20	0.00	0.00	0.00
** DESCRREC	"" ""				
DISCCART	603669.10	4134752.20	0.00	0.00	0.00
DISCCART	603689.10	4134752.20	0.00	0.00	0.00
DISCCART	603829.10	4134752.20	0.00	0.00	0.00
DISCCART	603849.10	4134752.20	0.00	0.00	0.00
DISCCART	603869.10	4134752.20	0.00	0.00	0.00
DISCCART	603929.10	4134752.20	0.00	0.00	0.00
DISCCART	603949.10	4134752.20	0.00	0.00	0.00
DISCCART	603989.10	4134752.20	0.00	0.00	0.00
DISCCART	604009.10	4134752.20	0.00	0.00	0.00
DISCCART	604029.10	4134752.20	0.00	0.00	0.00
DISCCART	604049.10	4134752.20	0.00	0.00	0.00
DISCCART	604069.10	4134752.20	0.00	0.00	0.00
DISCCART	604089.10	4134752.20	0.00	0.00	0.00
DISCCART	604109.10	4134752.20	0.00	0.00	0.00
DISCCART	604129.10	4134752.20	0.00	0.00	0.00
DISCCART	604149.10	4134752.20	0.00	0.00	0.00
DISCCART	604169.10	4134752.20	0.00	0.00	0.00
DISCCART	604189.10	4134752.20	0.00	0.00	0.00
DISCCART	604209.10	4134752.20	0.00	0.00	0.00
DISCCART	603349.10	4134772.20	0.00	0.00	0.00
DISCCART	603369.10	4134772.20	0.00	0.00	0.00
DISCCART	603389.10	4134772.20	0.00	0.00	0.00
DISCCART	603409.10	4134772.20	0.00	0.00	0.00
DISCCART	603449.10	4134772.20	0.00	0.00	0.00
DISCCART	603569.10	4134772.20	0.00	0.00	0.00
DISCCART	603589.10	4134772.20	0.00	0.00	0.00
DISCCART	603609.10	4134772.20	0.00	0.00	0.00
DISCCART	603629.10	4134772.20	0.00	0.00	0.00
DISCCART	603649.10	4134772.20	0.00	0.00	0.00
** DESCRREC	"Rec" "CreekPath"				

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DISCCART	603669.10	4134772.20	0.00	0.00	0.00
** DESCRREC	""	""			
DISCCART	603789.10	4134772.20	0.00	0.00	0.00
DISCCART	603809.10	4134772.20	0.00	0.00	0.00
DISCCART	603849.10	4134772.20	0.00	0.00	0.00
DISCCART	603889.10	4134772.20	0.00	0.00	0.00
DISCCART	603909.10	4134772.20	0.00	0.00	0.00
DISCCART	603929.10	4134772.20	0.00	0.00	0.00
DISCCART	603989.10	4134772.20	0.00	0.00	0.00
DISCCART	604009.10	4134772.20	0.00	0.00	0.00
DISCCART	604029.10	4134772.20	0.00	0.00	0.00
DISCCART	604049.10	4134772.20	0.00	0.00	0.00
DISCCART	604069.10	4134772.20	0.00	0.00	0.00
DISCCART	604089.10	4134772.20	0.00	0.00	0.00
DISCCART	604109.10	4134772.20	0.00	0.00	0.00
DISCCART	604129.10	4134772.20	0.00	0.00	0.00
DISCCART	604149.10	4134772.20	0.00	0.00	0.00
DISCCART	604169.10	4134772.20	0.00	0.00	0.00
DISCCART	604189.10	4134772.20	0.00	0.00	0.00
DISCCART	604209.10	4134772.20	0.00	0.00	0.00
DISCCART	604229.10	4134772.20	0.00	0.00	0.00
DISCCART	603349.10	4134792.20	0.00	0.00	0.00
DISCCART	603369.10	4134792.20	0.00	0.00	0.00
DISCCART	603389.10	4134792.20	0.00	0.00	0.00
DISCCART	603409.10	4134792.20	0.00	0.00	0.00
DISCCART	603449.10	4134792.20	0.00	0.00	0.00
DISCCART	603469.10	4134792.20	0.00	0.00	0.00
DISCCART	603489.10	4134792.20	0.00	0.00	0.00
DISCCART	603509.10	4134792.20	0.00	0.00	0.00
DISCCART	603529.10	4134792.20	0.00	0.00	0.00
DISCCART	603549.10	4134792.20	0.00	0.00	0.00
DISCCART	603609.10	4134792.20	0.00	0.00	0.00
DISCCART	603629.10	4134792.20	0.00	0.00	0.00
DISCCART	603649.10	4134792.20	0.00	0.00	0.00
DISCCART	603789.10	4134792.20	0.00	0.00	0.00
DISCCART	603809.10	4134792.20	0.00	0.00	0.00
DISCCART	603889.10	4134792.20	0.00	0.00	0.00
DISCCART	603909.10	4134792.20	0.00	0.00	0.00
DISCCART	603929.10	4134792.20	0.00	0.00	0.00
DISCCART	603969.10	4134792.20	0.00	0.00	0.00
DISCCART	603989.10	4134792.20	0.00	0.00	0.00
DISCCART	604009.10	4134792.20	0.00	0.00	0.00
DISCCART	604029.10	4134792.20	0.00	0.00	0.00
DISCCART	604049.10	4134792.20	0.00	0.00	0.00
DISCCART	604069.10	4134792.20	0.00	0.00	0.00
DISCCART	604089.10	4134792.20	0.00	0.00	0.00
DISCCART	604109.10	4134792.20	0.00	0.00	0.00
DISCCART	604129.10	4134792.20	0.00	0.00	0.00

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DISCCART	604149.10	4134792.20	0.00	0.00	0.00
DISCCART	604169.10	4134792.20	0.00	0.00	0.00
DISCCART	604189.10	4134792.20	0.00	0.00	0.00
DISCCART	604209.10	4134792.20	0.00	0.00	0.00
DISCCART	604229.10	4134792.20	0.00	0.00	0.00
DISCCART	604249.10	4134792.20	0.00	0.00	0.00
DISCCART	604269.10	4134792.20	0.00	0.00	0.00
DISCCART	603369.10	4134812.20	0.00	0.00	0.00
DISCCART	603389.10	4134812.20	0.00	0.00	0.00
DISCCART	603409.10	4134812.20	0.00	0.00	0.00
DISCCART	603429.10	4134812.20	0.00	0.00	0.00
DISCCART	603449.10	4134812.20	0.00	0.00	0.00
DISCCART	603469.10	4134812.20	0.00	0.00	0.00
DISCCART	603489.10	4134812.20	0.00	0.00	0.00
DISCCART	603509.10	4134812.20	0.00	0.00	0.00
DISCCART	603529.10	4134812.20	0.00	0.00	0.00
DISCCART	603549.10	4134812.20	0.00	0.00	0.00
DISCCART	603589.10	4134812.20	0.00	0.00	0.00
DISCCART	603609.10	4134812.20	0.00	0.00	0.00
DISCCART	603629.10	4134812.20	0.00	0.00	0.00
DISCCART	603649.10	4134812.20	0.00	0.00	0.00
** DESCRREC	"Rec" "CreekPath"				
DISCCART	603729.10	4134812.20	0.00	0.00	0.00
DISCCART	603749.10	4134812.20	0.00	0.00	0.00
** DESCRREC	"" ""				
DISCCART	603769.10	4134812.20	0.00	0.00	0.00
DISCCART	603789.10	4134812.20	0.00	0.00	0.00
DISCCART	603809.10	4134812.20	0.00	0.00	0.00
DISCCART	603849.10	4134812.20	0.00	0.00	0.00
DISCCART	603869.10	4134812.20	0.00	0.00	0.00
DISCCART	603909.10	4134812.20	0.00	0.00	0.00
DISCCART	603949.10	4134812.20	0.00	0.00	0.00
DISCCART	603969.10	4134812.20	0.00	0.00	0.00
DISCCART	603989.10	4134812.20	0.00	0.00	0.00
DISCCART	604009.10	4134812.20	0.00	0.00	0.00
DISCCART	604029.10	4134812.20	0.00	0.00	0.00
DISCCART	604049.10	4134812.20	0.00	0.00	0.00
DISCCART	604069.10	4134812.20	0.00	0.00	0.00
DISCCART	604089.10	4134812.20	0.00	0.00	0.00
DISCCART	604109.10	4134812.20	0.00	0.00	0.00
DISCCART	604129.10	4134812.20	0.00	0.00	0.00
DISCCART	604149.10	4134812.20	0.00	0.00	0.00
DISCCART	604169.10	4134812.20	0.00	0.00	0.00
DISCCART	604189.10	4134812.20	0.00	0.00	0.00
DISCCART	604209.10	4134812.20	0.00	0.00	0.00
DISCCART	604229.10	4134812.20	0.00	0.00	0.00
DISCCART	604249.10	4134812.20	0.00	0.00	0.00
** DESCRREC	"Rec" "CreekPath"				

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	DISCCART	604289.10	4134812.20	0.00	0.00	0.00
**	DESCRREC	""	""			
	DISCCART	603309.10	4134832.20	0.00	0.00	0.00
	DISCCART	603329.10	4134832.20	0.00	0.00	0.00
	DISCCART	603349.10	4134832.20	0.00	0.00	0.00
	DISCCART	603389.10	4134832.20	0.00	0.00	0.00
	DISCCART	603409.10	4134832.20	0.00	0.00	0.00
	DISCCART	603449.10	4134832.20	0.00	0.00	0.00
	DISCCART	603469.10	4134832.20	0.00	0.00	0.00
	DISCCART	603489.10	4134832.20	0.00	0.00	0.00
	DISCCART	603509.10	4134832.20	0.00	0.00	0.00
	DISCCART	603529.10	4134832.20	0.00	0.00	0.00
	DISCCART	603549.10	4134832.20	0.00	0.00	0.00
	DISCCART	603589.10	4134832.20	0.00	0.00	0.00
	DISCCART	603609.10	4134832.20	0.00	0.00	0.00
	DISCCART	603629.10	4134832.20	0.00	0.00	0.00
	DISCCART	603729.10	4134832.20	0.00	0.00	0.00
**	DESCRREC	"Rec"	"CreekPath"			
	DISCCART	603769.10	4134832.20	0.00	0.00	0.00
**	DESCRREC	""	""			
	DISCCART	603789.10	4134832.20	0.00	0.00	0.00
	DISCCART	603809.10	4134832.20	0.00	0.00	0.00
	DISCCART	603829.10	4134832.20	0.00	0.00	0.00
	DISCCART	603849.10	4134832.20	0.00	0.00	0.00
	DISCCART	603869.10	4134832.20	0.00	0.00	0.00
	DISCCART	603889.10	4134832.20	0.00	0.00	0.00
	DISCCART	603929.10	4134832.20	0.00	0.00	0.00
	DISCCART	603949.10	4134832.20	0.00	0.00	0.00
	DISCCART	603969.10	4134832.20	0.00	0.00	0.00
	DISCCART	603989.10	4134832.20	0.00	0.00	0.00
	DISCCART	604009.10	4134832.20	0.00	0.00	0.00
	DISCCART	604029.10	4134832.20	0.00	0.00	0.00
	DISCCART	604049.10	4134832.20	0.00	0.00	0.00
	DISCCART	604069.10	4134832.20	0.00	0.00	0.00
	DISCCART	604089.10	4134832.20	0.00	0.00	0.00
	DISCCART	604109.10	4134832.20	0.00	0.00	0.00
	DISCCART	604129.10	4134832.20	0.00	0.00	0.00
	DISCCART	604149.10	4134832.20	0.00	0.00	0.00
	DISCCART	604169.10	4134832.20	0.00	0.00	0.00
	DISCCART	604189.10	4134832.20	0.00	0.00	0.00
	DISCCART	604209.10	4134832.20	0.00	0.00	0.00
	DISCCART	604229.10	4134832.20	0.00	0.00	0.00
	DISCCART	604249.10	4134832.20	0.00	0.00	0.00
**	DESCRREC	"Rec"	"CreekPath"			
	DISCCART	604269.10	4134832.20	0.00	0.00	0.00
**	DESCRREC	""	""			
	DISCCART	603289.10	4134852.20	0.00	0.00	0.00
	DISCCART	603309.10	4134852.20	0.00	0.00	0.00

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DISCCART	603329.10	4134852.20	0.00	0.00	0.00
DISCCART	603349.10	4134852.20	0.00	0.00	0.00
DISCCART	603389.10	4134852.20	0.00	0.00	0.00
DISCCART	603409.10	4134852.20	0.00	0.00	0.00
DISCCART	603429.10	4134852.20	0.00	0.00	0.00
DISCCART	603469.10	4134852.20	0.00	0.00	0.00
DISCCART	603489.10	4134852.20	0.00	0.00	0.00
DISCCART	603509.10	4134852.20	0.00	0.00	0.00
DISCCART	603529.10	4134852.20	0.00	0.00	0.00
DISCCART	603569.10	4134852.20	0.00	0.00	0.00
DISCCART	603589.10	4134852.20	0.00	0.00	0.00
DISCCART	603609.10	4134852.20	0.00	0.00	0.00
DISCCART	603709.10	4134852.20	0.00	0.00	0.00
DISCCART	603729.10	4134852.20	0.00	0.00	0.00
DISCCART	603749.10	4134852.20	0.00	0.00	0.00
** DESCRREC	"Rec" "CreekPath"				
DISCCART	603769.10	4134852.20	0.00	0.00	0.00
DISCCART	603789.10	4134852.20	0.00	0.00	0.00
** DESCRREC	"" ""				
DISCCART	603809.10	4134852.20	0.00	0.00	0.00
DISCCART	603829.10	4134852.20	0.00	0.00	0.00
DISCCART	603849.10	4134852.20	0.00	0.00	0.00
DISCCART	603869.10	4134852.20	0.00	0.00	0.00
DISCCART	603909.10	4134852.20	0.00	0.00	0.00
DISCCART	603929.10	4134852.20	0.00	0.00	0.00
DISCCART	603949.10	4134852.20	0.00	0.00	0.00
DISCCART	603969.10	4134852.20	0.00	0.00	0.00
DISCCART	603989.10	4134852.20	0.00	0.00	0.00
DISCCART	604009.10	4134852.20	0.00	0.00	0.00
DISCCART	604029.10	4134852.20	0.00	0.00	0.00
DISCCART	604049.10	4134852.20	0.00	0.00	0.00
DISCCART	604069.10	4134852.20	0.00	0.00	0.00
DISCCART	604089.10	4134852.20	0.00	0.00	0.00
DISCCART	604109.10	4134852.20	0.00	0.00	0.00
DISCCART	604129.10	4134852.20	0.00	0.00	0.00
DISCCART	604149.10	4134852.20	0.00	0.00	0.00
DISCCART	604169.10	4134852.20	0.00	0.00	0.00
DISCCART	604189.10	4134852.20	0.00	0.00	0.00
DISCCART	604209.10	4134852.20	0.00	0.00	0.00
DISCCART	604229.10	4134852.20	0.00	0.00	0.00
** DESCRREC	"Rec" "CreekPath"				
DISCCART	604249.10	4134852.20	0.00	0.00	0.00
** DESCRREC	"" ""				
DISCCART	603269.10	4134872.20	0.00	0.00	0.00
DISCCART	603309.10	4134872.20	0.00	0.00	0.00
DISCCART	603329.10	4134872.20	0.00	0.00	0.00
DISCCART	603349.10	4134872.20	0.00	0.00	0.00
DISCCART	603369.10	4134872.20	0.00	0.00	0.00



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DISCCART	603389.10	4134872.20	0.00	0.00	0.00
DISCCART	603409.10	4134872.20	0.00	0.00	0.00
DISCCART	603429.10	4134872.20	0.00	0.00	0.00
DISCCART	603449.10	4134872.20	0.00	0.00	0.00
DISCCART	603489.10	4134872.20	0.00	0.00	0.00
DISCCART	603509.10	4134872.20	0.00	0.00	0.00
DISCCART	603529.10	4134872.20	0.00	0.00	0.00
DISCCART	603709.10	4134872.20	0.00	0.00	0.00
DISCCART	603749.10	4134872.20	0.00	0.00	0.00
DISCCART	603769.10	4134872.20	0.00	0.00	0.00
** DESCRREC	"Rec"	"CreekPath"			
DISCCART	603789.10	4134872.20	0.00	0.00	0.00
DISCCART	603809.10	4134872.20	0.00	0.00	0.00
** DESCRREC	""	""			
DISCCART	603829.10	4134872.20	0.00	0.00	0.00
DISCCART	603849.10	4134872.20	0.00	0.00	0.00
DISCCART	603869.10	4134872.20	0.00	0.00	0.00
DISCCART	603909.10	4134872.20	0.00	0.00	0.00
DISCCART	603929.10	4134872.20	0.00	0.00	0.00
DISCCART	603949.10	4134872.20	0.00	0.00	0.00
DISCCART	603969.10	4134872.20	0.00	0.00	0.00
DISCCART	604009.10	4134872.20	0.00	0.00	0.00
DISCCART	604029.10	4134872.20	0.00	0.00	0.00
DISCCART	604069.10	4134872.20	0.00	0.00	0.00
DISCCART	604089.10	4134872.20	0.00	0.00	0.00
DISCCART	604109.10	4134872.20	0.00	0.00	0.00
DISCCART	604129.10	4134872.20	0.00	0.00	0.00
DISCCART	604149.10	4134872.20	0.00	0.00	0.00
DISCCART	604169.10	4134872.20	0.00	0.00	0.00
DISCCART	604189.10	4134872.20	0.00	0.00	0.00
DISCCART	604209.10	4134872.20	0.00	0.00	0.00
DISCCART	604229.10	4134872.20	0.00	0.00	0.00
DISCCART	603269.10	4134892.20	0.00	0.00	0.00
DISCCART	603289.10	4134892.20	0.00	0.00	0.00
DISCCART	603329.10	4134892.20	0.00	0.00	0.00
DISCCART	603349.10	4134892.20	0.00	0.00	0.00
DISCCART	603369.10	4134892.20	0.00	0.00	0.00
DISCCART	603389.10	4134892.20	0.00	0.00	0.00
DISCCART	603409.10	4134892.20	0.00	0.00	0.00
DISCCART	603429.10	4134892.20	0.00	0.00	0.00
DISCCART	603449.10	4134892.20	0.00	0.00	0.00
DISCCART	603469.10	4134892.20	0.00	0.00	0.00
DISCCART	603689.10	4134892.20	0.00	0.00	0.00
DISCCART	603709.10	4134892.20	0.00	0.00	0.00
DISCCART	603749.10	4134892.20	0.00	0.00	0.00
DISCCART	603769.10	4134892.20	0.00	0.00	0.00
DISCCART	603789.10	4134892.20	0.00	0.00	0.00
DISCCART	603809.10	4134892.20	0.00	0.00	0.00

Eastridge\_BART

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** DESCRREC "Rec" "CreekPath"
DISCCART    603849.10    4134892.20    0.00    0.00    0.00
** DESCRREC "" ""
DISCCART    603869.10    4134892.20    0.00    0.00    0.00
DISCCART    603889.10    4134892.20    0.00    0.00    0.00
DISCCART    603949.10    4134892.20    0.00    0.00    0.00
DISCCART    603989.10    4134892.20    0.00    0.00    0.00
DISCCART    604009.10    4134892.20    0.00    0.00    0.00
DISCCART    604109.10    4134892.20    0.00    0.00    0.00
DISCCART    604129.10    4134892.20    0.00    0.00    0.00
DISCCART    604149.10    4134892.20    0.00    0.00    0.00
DISCCART    604169.10    4134892.20    0.00    0.00    0.00
DISCCART    604189.10    4134892.20    0.00    0.00    0.00
** DESCRREC "Rec" "CreekPath"
DISCCART    604229.10    4134892.20    0.00    0.00    0.00
** DESCRREC "" ""
DISCCART    603249.10    4134912.20    0.00    0.00    0.00
DISCCART    603269.10    4134912.20    0.00    0.00    0.00
DISCCART    603289.10    4134912.20    0.00    0.00    0.00
DISCCART    603309.10    4134912.20    0.00    0.00    0.00
DISCCART    603349.10    4134912.20    0.00    0.00    0.00
DISCCART    603369.10    4134912.20    0.00    0.00    0.00
DISCCART    603429.10    4134912.20    0.00    0.00    0.00
DISCCART    603449.10    4134912.20    0.00    0.00    0.00
DISCCART    603469.10    4134912.20    0.00    0.00    0.00
DISCCART    603489.10    4134912.20    0.00    0.00    0.00
DISCCART    603649.10    4134912.20    0.00    0.00    0.00
DISCCART    603669.10    4134912.20    0.00    0.00    0.00
DISCCART    603689.10    4134912.20    0.00    0.00    0.00
DISCCART    603729.10    4134912.20    0.00    0.00    0.00
DISCCART    603749.10    4134912.20    0.00    0.00    0.00
DISCCART    603769.10    4134912.20    0.00    0.00    0.00
DISCCART    603809.10    4134912.20    0.00    0.00    0.00
DISCCART    603829.10    4134912.20    0.00    0.00    0.00
** DESCRREC "Rec" "CreekPath"
DISCCART    603849.10    4134912.20    0.00    0.00    0.00
DISCCART    603869.10    4134912.20    0.00    0.00    0.00
** DESCRREC "" ""
DISCCART    603889.10    4134912.20    0.00    0.00    0.00
DISCCART    603909.10    4134912.20    0.00    0.00    0.00
DISCCART    603929.10    4134912.20    0.00    0.00    0.00
DISCCART    603969.10    4134912.20    0.00    0.00    0.00
DISCCART    603989.10    4134912.20    0.00    0.00    0.00
DISCCART    604129.10    4134912.20    0.00    0.00    0.00
DISCCART    604149.10    4134912.20    0.00    0.00    0.00
DISCCART    604169.10    4134912.20    0.00    0.00    0.00
DISCCART    604189.10    4134912.20    0.00    0.00    0.00
** DESCRREC "Rec" "CreekPath"

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Eastridge\_BART

	DISCCART	604209.10	4134912.20	0.00	0.00	0.00
**	DESCRREC	""	""			
	DISCCART	603629.10	4134932.20	0.00	0.00	0.00
	DISCCART	603649.10	4134932.20	0.00	0.00	0.00
	DISCCART	603669.10	4134932.20	0.00	0.00	0.00
	DISCCART	603689.10	4134932.20	0.00	0.00	0.00
	DISCCART	603729.10	4134932.20	0.00	0.00	0.00
	DISCCART	603749.10	4134932.20	0.00	0.00	0.00
	DISCCART	603769.10	4134932.20	0.00	0.00	0.00
	DISCCART	603809.10	4134932.20	0.00	0.00	0.00
	DISCCART	603829.10	4134932.20	0.00	0.00	0.00
	DISCCART	603849.10	4134932.20	0.00	0.00	0.00
**	DESCRREC	"Rec"	"CreekPath"			
	DISCCART	603869.10	4134932.20	0.00	0.00	0.00
	DISCCART	603889.10	4134932.20	0.00	0.00	0.00
**	DESCRREC	""	""			
	DISCCART	603909.10	4134932.20	0.00	0.00	0.00
	DISCCART	603929.10	4134932.20	0.00	0.00	0.00
	DISCCART	603949.10	4134932.20	0.00	0.00	0.00
	DISCCART	604149.10	4134932.20	0.00	0.00	0.00
	DISCCART	604169.10	4134932.20	0.00	0.00	0.00
**	DESCRREC	"Rec"	"CreekPath"			
	DISCCART	604189.10	4134932.20	0.00	0.00	0.00
**	DESCRREC	""	""			
	DISCCART	603629.10	4134952.20	0.00	0.00	0.00
	DISCCART	603649.10	4134952.20	0.00	0.00	0.00
	DISCCART	603669.10	4134952.20	0.00	0.00	0.00
	DISCCART	603709.10	4134952.20	0.00	0.00	0.00
	DISCCART	603729.10	4134952.20	0.00	0.00	0.00
	DISCCART	603749.10	4134952.20	0.00	0.00	0.00
	DISCCART	603789.10	4134952.20	0.00	0.00	0.00
	DISCCART	603809.10	4134952.20	0.00	0.00	0.00
	DISCCART	603829.10	4134952.20	0.00	0.00	0.00
	DISCCART	603849.10	4134952.20	0.00	0.00	0.00
	DISCCART	603869.10	4134952.20	0.00	0.00	0.00
	DISCCART	603889.10	4134952.20	0.00	0.00	0.00
**	DESCRREC	"Rec"	"CreekPath"			
	DISCCART	603909.10	4134952.20	0.00	0.00	0.00
	DISCCART	603929.10	4134952.20	0.00	0.00	0.00
**	DESCRREC	""	""			
	DISCCART	603949.10	4134952.20	0.00	0.00	0.00
	DISCCART	603969.10	4134952.20	0.00	0.00	0.00
**	DESCRREC	"Rec"	"CreekPath"			
	DISCCART	604169.10	4134952.20	0.00	0.00	0.00
**	DESCRREC	""	""			
	DISCCART	603169.10	4134972.20	0.00	0.00	0.00
	DISCCART	603189.10	4134972.20	0.00	0.00	0.00
	DISCCART	603209.10	4134972.20	0.00	0.00	0.00

Eastridge\_BART

DISCCART	603229.10	4134972.20	0.00	0.00	0.00
DISCCART	603249.10	4134972.20	0.00	0.00	0.00
DISCCART	603269.10	4134972.20	0.00	0.00	0.00
DISCCART	603329.10	4134972.20	0.00	0.00	0.00
DISCCART	603349.10	4134972.20	0.00	0.00	0.00
DISCCART	603369.10	4134972.20	0.00	0.00	0.00
DISCCART	603389.10	4134972.20	0.00	0.00	0.00
DISCCART	603449.10	4134972.20	0.00	0.00	0.00
DISCCART	603469.10	4134972.20	0.00	0.00	0.00
DISCCART	603489.10	4134972.20	0.00	0.00	0.00
DISCCART	603509.10	4134972.20	0.00	0.00	0.00
DISCCART	603529.10	4134972.20	0.00	0.00	0.00
DISCCART	603629.10	4134972.20	0.00	0.00	0.00
DISCCART	603649.10	4134972.20	0.00	0.00	0.00
DISCCART	603669.10	4134972.20	0.00	0.00	0.00
DISCCART	603709.10	4134972.20	0.00	0.00	0.00
DISCCART	603729.10	4134972.20	0.00	0.00	0.00
DISCCART	603749.10	4134972.20	0.00	0.00	0.00
DISCCART	603789.10	4134972.20	0.00	0.00	0.00
DISCCART	603809.10	4134972.20	0.00	0.00	0.00
DISCCART	603829.10	4134972.20	0.00	0.00	0.00
DISCCART	603889.10	4134972.20	0.00	0.00	0.00
DISCCART	603909.10	4134972.20	0.00	0.00	0.00
** DESCRREC	"Rec" "CreekPath"				
DISCCART	603929.10	4134972.20	0.00	0.00	0.00
DISCCART	603949.10	4134972.20	0.00	0.00	0.00
** DESCRREC	"" ""				
DISCCART	603969.10	4134972.20	0.00	0.00	0.00
** DESCRREC	"Rec" "CreekPath"				
DISCCART	604169.10	4134972.20	0.00	0.00	0.00
** DESCRREC	"" ""				
DISCCART	603209.10	4134992.20	0.00	0.00	0.00
DISCCART	603229.10	4134992.20	0.00	0.00	0.00
DISCCART	603249.10	4134992.20	0.00	0.00	0.00
DISCCART	603269.10	4134992.20	0.00	0.00	0.00
DISCCART	603289.10	4134992.20	0.00	0.00	0.00
DISCCART	603329.10	4134992.20	0.00	0.00	0.00
DISCCART	603349.10	4134992.20	0.00	0.00	0.00
DISCCART	603369.10	4134992.20	0.00	0.00	0.00
DISCCART	603389.10	4134992.20	0.00	0.00	0.00
DISCCART	603409.10	4134992.20	0.00	0.00	0.00
DISCCART	603449.10	4134992.20	0.00	0.00	0.00
DISCCART	603469.10	4134992.20	0.00	0.00	0.00
DISCCART	603489.10	4134992.20	0.00	0.00	0.00
DISCCART	603509.10	4134992.20	0.00	0.00	0.00
DISCCART	603529.10	4134992.20	0.00	0.00	0.00
DISCCART	603609.10	4134992.20	0.00	0.00	0.00
DISCCART	603689.10	4134992.20	0.00	0.00	0.00

Eastridge\_BART

DISCCART	603709.10	4134992.20	0.00	0.00	0.00
DISCCART	603729.10	4134992.20	0.00	0.00	0.00
DISCCART	603769.10	4134992.20	0.00	0.00	0.00
DISCCART	603789.10	4134992.20	0.00	0.00	0.00
DISCCART	603809.10	4134992.20	0.00	0.00	0.00
DISCCART	603849.10	4134992.20	0.00	0.00	0.00
DISCCART	603869.10	4134992.20	0.00	0.00	0.00
DISCCART	603909.10	4134992.20	0.00	0.00	0.00
DISCCART	603929.10	4134992.20	0.00	0.00	0.00
** DESCRREC	"Rec" "CreekPath"				
DISCCART	603949.10	4134992.20	0.00	0.00	0.00
DISCCART	603989.10	4134992.20	0.00	0.00	0.00
DISCCART	604149.10	4134992.20	0.00	0.00	0.00
** DESCRREC	" " "				
DISCCART	603229.10	4135012.20	0.00	0.00	0.00
DISCCART	603249.10	4135012.20	0.00	0.00	0.00
DISCCART	603269.10	4135012.20	0.00	0.00	0.00
DISCCART	603289.10	4135012.20	0.00	0.00	0.00
DISCCART	603309.10	4135012.20	0.00	0.00	0.00
DISCCART	603349.10	4135012.20	0.00	0.00	0.00
DISCCART	603369.10	4135012.20	0.00	0.00	0.00
DISCCART	603389.10	4135012.20	0.00	0.00	0.00
DISCCART	603409.10	4135012.20	0.00	0.00	0.00
DISCCART	603429.10	4135012.20	0.00	0.00	0.00
DISCCART	603469.10	4135012.20	0.00	0.00	0.00
DISCCART	603489.10	4135012.20	0.00	0.00	0.00
DISCCART	603509.10	4135012.20	0.00	0.00	0.00
DISCCART	603529.10	4135012.20	0.00	0.00	0.00
DISCCART	603589.10	4135012.20	0.00	0.00	0.00
DISCCART	603609.10	4135012.20	0.00	0.00	0.00
DISCCART	603629.10	4135012.20	0.00	0.00	0.00
DISCCART	603709.10	4135012.20	0.00	0.00	0.00
DISCCART	603729.10	4135012.20	0.00	0.00	0.00
DISCCART	603769.10	4135012.20	0.00	0.00	0.00
DISCCART	603849.10	4135012.20	0.00	0.00	0.00
DISCCART	603869.10	4135012.20	0.00	0.00	0.00
DISCCART	603889.10	4135012.20	0.00	0.00	0.00
** DESCRREC	"Rec" "CreekPath"				
DISCCART	603989.10	4135012.20	0.00	0.00	0.00
DISCCART	604009.10	4135012.20	0.00	0.00	0.00
DISCCART	604129.10	4135012.20	0.00	0.00	0.00
** DESCRREC	" " "				
DISCCART	603189.10	4135032.20	0.00	0.00	0.00
DISCCART	603209.10	4135032.20	0.00	0.00	0.00
DISCCART	603249.10	4135032.20	0.00	0.00	0.00
DISCCART	603269.10	4135032.20	0.00	0.00	0.00
DISCCART	603289.10	4135032.20	0.00	0.00	0.00
DISCCART	603309.10	4135032.20	0.00	0.00	0.00

Eastridge\_BART

DISCCART	603329.10	4135032.20	0.00	0.00	0.00
DISCCART	603369.10	4135032.20	0.00	0.00	0.00
DISCCART	603389.10	4135032.20	0.00	0.00	0.00
DISCCART	603409.10	4135032.20	0.00	0.00	0.00
DISCCART	603429.10	4135032.20	0.00	0.00	0.00
DISCCART	603469.10	4135032.20	0.00	0.00	0.00
DISCCART	603489.10	4135032.20	0.00	0.00	0.00
DISCCART	603509.10	4135032.20	0.00	0.00	0.00
DISCCART	603529.10	4135032.20	0.00	0.00	0.00
DISCCART	603589.10	4135032.20	0.00	0.00	0.00
DISCCART	603609.10	4135032.20	0.00	0.00	0.00
DISCCART	603629.10	4135032.20	0.00	0.00	0.00
DISCCART	603669.10	4135032.20	0.00	0.00	0.00
DISCCART	603769.10	4135032.20	0.00	0.00	0.00
DISCCART	603789.10	4135032.20	0.00	0.00	0.00
DISCCART	603809.10	4135032.20	0.00	0.00	0.00
DISCCART	603829.10	4135032.20	0.00	0.00	0.00
DISCCART	603849.10	4135032.20	0.00	0.00	0.00
DISCCART	603869.10	4135032.20	0.00	0.00	0.00
DISCCART	603929.10	4135032.20	0.00	0.00	0.00
** DESCRREC	"Rec" "CreekPath"				
DISCCART	604029.10	4135032.20	0.00	0.00	0.00
DISCCART	604109.10	4135032.20	0.00	0.00	0.00
** DESCRREC	"" ""				
DISCCART	603209.10	4135052.20	0.00	0.00	0.00
DISCCART	603229.10	4135052.20	0.00	0.00	0.00
DISCCART	603249.10	4135052.20	0.00	0.00	0.00
DISCCART	603269.10	4135052.20	0.00	0.00	0.00
DISCCART	603289.10	4135052.20	0.00	0.00	0.00
DISCCART	603309.10	4135052.20	0.00	0.00	0.00
DISCCART	603329.10	4135052.20	0.00	0.00	0.00
DISCCART	603349.10	4135052.20	0.00	0.00	0.00
DISCCART	603409.10	4135052.20	0.00	0.00	0.00
DISCCART	603449.10	4135052.20	0.00	0.00	0.00
DISCCART	603469.10	4135052.20	0.00	0.00	0.00
DISCCART	603489.10	4135052.20	0.00	0.00	0.00
DISCCART	603509.10	4135052.20	0.00	0.00	0.00
DISCCART	603569.10	4135052.20	0.00	0.00	0.00
DISCCART	603589.10	4135052.20	0.00	0.00	0.00
DISCCART	603609.10	4135052.20	0.00	0.00	0.00
DISCCART	603649.10	4135052.20	0.00	0.00	0.00
DISCCART	603669.10	4135052.20	0.00	0.00	0.00
DISCCART	603689.10	4135052.20	0.00	0.00	0.00
DISCCART	603709.10	4135052.20	0.00	0.00	0.00
DISCCART	603729.10	4135052.20	0.00	0.00	0.00
DISCCART	603749.10	4135052.20	0.00	0.00	0.00
DISCCART	603769.10	4135052.20	0.00	0.00	0.00
DISCCART	603789.10	4135052.20	0.00	0.00	0.00

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DISCCART	603809.10	4135052.20	0.00	0.00	0.00
DISCCART	603829.10	4135052.20	0.00	0.00	0.00
DISCCART	603849.10	4135052.20	0.00	0.00	0.00
DISCCART	603869.10	4135052.20	0.00	0.00	0.00
DISCCART	603909.10	4135052.20	0.00	0.00	0.00
** DESCRREC	"Rec" "CreekPath"				
DISCCART	604069.10	4135052.20	0.00	0.00	0.00
DISCCART	604089.10	4135052.20	0.00	0.00	0.00
DISCCART	604109.10	4135052.20	0.00	0.00	0.00
** DESCRREC	"" ""				
DISCCART	603189.10	4135072.20	0.00	0.00	0.00
DISCCART	603209.10	4135072.20	0.00	0.00	0.00
DISCCART	603229.10	4135072.20	0.00	0.00	0.00
DISCCART	603249.10	4135072.20	0.00	0.00	0.00
DISCCART	603269.10	4135072.20	0.00	0.00	0.00
DISCCART	603289.10	4135072.20	0.00	0.00	0.00
DISCCART	603309.10	4135072.20	0.00	0.00	0.00
DISCCART	603329.10	4135072.20	0.00	0.00	0.00
DISCCART	603349.10	4135072.20	0.00	0.00	0.00
DISCCART	603369.10	4135072.20	0.00	0.00	0.00
DISCCART	603449.10	4135072.20	0.00	0.00	0.00
DISCCART	603469.10	4135072.20	0.00	0.00	0.00
DISCCART	603489.10	4135072.20	0.00	0.00	0.00
DISCCART	603569.10	4135072.20	0.00	0.00	0.00
DISCCART	603589.10	4135072.20	0.00	0.00	0.00
DISCCART	603609.10	4135072.20	0.00	0.00	0.00
DISCCART	603649.10	4135072.20	0.00	0.00	0.00
DISCCART	603669.10	4135072.20	0.00	0.00	0.00
DISCCART	603689.10	4135072.20	0.00	0.00	0.00
DISCCART	603709.10	4135072.20	0.00	0.00	0.00
DISCCART	603729.10	4135072.20	0.00	0.00	0.00
DISCCART	603749.10	4135072.20	0.00	0.00	0.00
DISCCART	603769.10	4135072.20	0.00	0.00	0.00
DISCCART	603789.10	4135072.20	0.00	0.00	0.00
DISCCART	603809.10	4135072.20	0.00	0.00	0.00
DISCCART	603829.10	4135072.20	0.00	0.00	0.00
DISCCART	603849.10	4135072.20	0.00	0.00	0.00
DISCCART	603889.10	4135072.20	0.00	0.00	0.00
DISCCART	603909.10	4135072.20	0.00	0.00	0.00
** DESCRREC	"Rec" "CreekPath"				
DISCCART	604089.10	4135072.20	0.00	0.00	0.00
** DESCRREC	"" ""				
DISCCART	603209.10	4135092.20	0.00	0.00	0.00
DISCCART	603229.10	4135092.20	0.00	0.00	0.00
DISCCART	603249.10	4135092.20	0.00	0.00	0.00
DISCCART	603269.10	4135092.20	0.00	0.00	0.00
DISCCART	603289.10	4135092.20	0.00	0.00	0.00
DISCCART	603309.10	4135092.20	0.00	0.00	0.00

Eastridge\_BART

DISCCART	603329.10	4135092.20	0.00	0.00	0.00
DISCCART	603349.10	4135092.20	0.00	0.00	0.00
DISCCART	603369.10	4135092.20	0.00	0.00	0.00
DISCCART	603389.10	4135092.20	0.00	0.00	0.00
DISCCART	603409.10	4135092.20	0.00	0.00	0.00
DISCCART	603449.10	4135092.20	0.00	0.00	0.00
DISCCART	603469.10	4135092.20	0.00	0.00	0.00
DISCCART	603549.10	4135092.20	0.00	0.00	0.00
DISCCART	603569.10	4135092.20	0.00	0.00	0.00
DISCCART	603589.10	4135092.20	0.00	0.00	0.00
DISCCART	603629.10	4135092.20	0.00	0.00	0.00
DISCCART	603689.10	4135092.20	0.00	0.00	0.00
DISCCART	603709.10	4135092.20	0.00	0.00	0.00
DISCCART	603729.10	4135092.20	0.00	0.00	0.00
DISCCART	603869.10	4135092.20	0.00	0.00	0.00
DISCCART	603889.10	4135092.20	0.00	0.00	0.00
DISCCART	603189.10	4135112.20	0.00	0.00	0.00
DISCCART	603209.10	4135112.20	0.00	0.00	0.00
DISCCART	603229.10	4135112.20	0.00	0.00	0.00
DISCCART	603249.10	4135112.20	0.00	0.00	0.00
DISCCART	603269.10	4135112.20	0.00	0.00	0.00
DISCCART	603289.10	4135112.20	0.00	0.00	0.00
DISCCART	603309.10	4135112.20	0.00	0.00	0.00
DISCCART	603329.10	4135112.20	0.00	0.00	0.00
DISCCART	603349.10	4135112.20	0.00	0.00	0.00
DISCCART	603369.10	4135112.20	0.00	0.00	0.00
DISCCART	603389.10	4135112.20	0.00	0.00	0.00
DISCCART	603409.10	4135112.20	0.00	0.00	0.00
DISCCART	603429.10	4135112.20	0.00	0.00	0.00
DISCCART	603469.10	4135112.20	0.00	0.00	0.00
DISCCART	603529.10	4135112.20	0.00	0.00	0.00
DISCCART	603589.10	4135112.20	0.00	0.00	0.00
DISCCART	603629.10	4135112.20	0.00	0.00	0.00
DISCCART	603649.10	4135112.20	0.00	0.00	0.00
DISCCART	603669.10	4135112.20	0.00	0.00	0.00
DISCCART	603729.10	4135112.20	0.00	0.00	0.00
DISCCART	603749.10	4135112.20	0.00	0.00	0.00
DISCCART	603769.10	4135112.20	0.00	0.00	0.00
DISCCART	603789.10	4135112.20	0.00	0.00	0.00
DISCCART	603809.10	4135112.20	0.00	0.00	0.00
DISCCART	603829.10	4135112.20	0.00	0.00	0.00
DISCCART	603849.10	4135112.20	0.00	0.00	0.00
DISCCART	603869.10	4135112.20	0.00	0.00	0.00
DISCCART	603889.10	4135112.20	0.00	0.00	0.00
DISCCART	603189.10	4135132.20	0.00	0.00	0.00
DISCCART	603209.10	4135132.20	0.00	0.00	0.00
DISCCART	603229.10	4135132.20	0.00	0.00	0.00
DISCCART	603249.10	4135132.20	0.00	0.00	0.00



Eastridge\_BART

DISCCART	603269.10	4135132.20	0.00	0.00	0.00
DISCCART	603289.10	4135132.20	0.00	0.00	0.00
DISCCART	603309.10	4135132.20	0.00	0.00	0.00
DISCCART	603329.10	4135132.20	0.00	0.00	0.00
DISCCART	603349.10	4135132.20	0.00	0.00	0.00
DISCCART	603369.10	4135132.20	0.00	0.00	0.00
DISCCART	603389.10	4135132.20	0.00	0.00	0.00
DISCCART	603409.10	4135132.20	0.00	0.00	0.00
DISCCART	603429.10	4135132.20	0.00	0.00	0.00
DISCCART	603449.10	4135132.20	0.00	0.00	0.00
DISCCART	603529.10	4135132.20	0.00	0.00	0.00
DISCCART	603549.10	4135132.20	0.00	0.00	0.00
DISCCART	603569.10	4135132.20	0.00	0.00	0.00
DISCCART	603609.10	4135132.20	0.00	0.00	0.00
DISCCART	603629.10	4135132.20	0.00	0.00	0.00
DISCCART	603649.10	4135132.20	0.00	0.00	0.00
DISCCART	603669.10	4135132.20	0.00	0.00	0.00
DISCCART	603689.10	4135132.20	0.00	0.00	0.00
DISCCART	603709.10	4135132.20	0.00	0.00	0.00
DISCCART	603729.10	4135132.20	0.00	0.00	0.00
DISCCART	603749.10	4135132.20	0.00	0.00	0.00
DISCCART	603769.10	4135132.20	0.00	0.00	0.00
DISCCART	603789.10	4135132.20	0.00	0.00	0.00
DISCCART	603809.10	4135132.20	0.00	0.00	0.00
DISCCART	603829.10	4135132.20	0.00	0.00	0.00
DISCCART	603849.10	4135132.20	0.00	0.00	0.00
DISCCART	603869.10	4135132.20	0.00	0.00	0.00
DISCCART	603209.10	4135152.20	0.00	0.00	0.00
DISCCART	603229.10	4135152.20	0.00	0.00	0.00
DISCCART	603249.10	4135152.20	0.00	0.00	0.00
DISCCART	603269.10	4135152.20	0.00	0.00	0.00
DISCCART	603289.10	4135152.20	0.00	0.00	0.00
DISCCART	603309.10	4135152.20	0.00	0.00	0.00
DISCCART	603329.10	4135152.20	0.00	0.00	0.00
DISCCART	603349.10	4135152.20	0.00	0.00	0.00
DISCCART	603369.10	4135152.20	0.00	0.00	0.00
DISCCART	603389.10	4135152.20	0.00	0.00	0.00
DISCCART	603409.10	4135152.20	0.00	0.00	0.00
DISCCART	603429.10	4135152.20	0.00	0.00	0.00
DISCCART	603449.10	4135152.20	0.00	0.00	0.00
DISCCART	603509.10	4135152.20	0.00	0.00	0.00
DISCCART	603529.10	4135152.20	0.00	0.00	0.00
DISCCART	603549.10	4135152.20	0.00	0.00	0.00
DISCCART	603589.10	4135152.20	0.00	0.00	0.00
DISCCART	603649.10	4135152.20	0.00	0.00	0.00
DISCCART	603669.10	4135152.20	0.00	0.00	0.00
DISCCART	603689.10	4135152.20	0.00	0.00	0.00
DISCCART	603709.10	4135152.20	0.00	0.00	0.00

Eastridge\_BART

DISCCART	603729.10	4135152.20	0.00	0.00	0.00
DISCCART	603749.10	4135152.20	0.00	0.00	0.00
DISCCART	603769.10	4135152.20	0.00	0.00	0.00
DISCCART	603789.10	4135152.20	0.00	0.00	0.00
DISCCART	603809.10	4135152.20	0.00	0.00	0.00
DISCCART	603829.10	4135152.20	0.00	0.00	0.00
DISCCART	603189.10	4135172.20	0.00	0.00	0.00
DISCCART	603209.10	4135172.20	0.00	0.00	0.00
DISCCART	603229.10	4135172.20	0.00	0.00	0.00
DISCCART	603249.10	4135172.20	0.00	0.00	0.00
DISCCART	603269.10	4135172.20	0.00	0.00	0.00
DISCCART	603289.10	4135172.20	0.00	0.00	0.00
DISCCART	603309.10	4135172.20	0.00	0.00	0.00
DISCCART	603329.10	4135172.20	0.00	0.00	0.00
DISCCART	603349.10	4135172.20	0.00	0.00	0.00
DISCCART	603369.10	4135172.20	0.00	0.00	0.00
DISCCART	603389.10	4135172.20	0.00	0.00	0.00
DISCCART	603409.10	4135172.20	0.00	0.00	0.00
DISCCART	603429.10	4135172.20	0.00	0.00	0.00
DISCCART	603509.10	4135172.20	0.00	0.00	0.00
DISCCART	603529.10	4135172.20	0.00	0.00	0.00
DISCCART	603549.10	4135172.20	0.00	0.00	0.00
DISCCART	603589.10	4135172.20	0.00	0.00	0.00
DISCCART	603609.10	4135172.20	0.00	0.00	0.00
DISCCART	603629.10	4135172.20	0.00	0.00	0.00
DISCCART	603209.10	4135192.20	0.00	0.00	0.00
DISCCART	603229.10	4135192.20	0.00	0.00	0.00
DISCCART	603249.10	4135192.20	0.00	0.00	0.00
DISCCART	603269.10	4135192.20	0.00	0.00	0.00
DISCCART	603289.10	4135192.20	0.00	0.00	0.00
DISCCART	603309.10	4135192.20	0.00	0.00	0.00
DISCCART	603329.10	4135192.20	0.00	0.00	0.00
DISCCART	603349.10	4135192.20	0.00	0.00	0.00
DISCCART	603369.10	4135192.20	0.00	0.00	0.00
DISCCART	603389.10	4135192.20	0.00	0.00	0.00
DISCCART	603409.10	4135192.20	0.00	0.00	0.00
DISCCART	603429.10	4135192.20	0.00	0.00	0.00
DISCCART	603489.10	4135192.20	0.00	0.00	0.00
DISCCART	603509.10	4135192.20	0.00	0.00	0.00
DISCCART	603529.10	4135192.20	0.00	0.00	0.00
DISCCART	603569.10	4135192.20	0.00	0.00	0.00
DISCCART	603589.10	4135192.20	0.00	0.00	0.00
DISCCART	603609.10	4135192.20	0.00	0.00	0.00
DISCCART	603629.10	4135192.20	0.00	0.00	0.00
DISCCART	603649.10	4135192.20	0.00	0.00	0.00
DISCCART	603669.10	4135192.20	0.00	0.00	0.00
DISCCART	603689.10	4135192.20	0.00	0.00	0.00
DISCCART	603709.10	4135192.20	0.00	0.00	0.00

Eastridge\_BART

DISCCART	603749.10	4135192.20	0.00	0.00	0.00
DISCCART	603769.10	4135192.20	0.00	0.00	0.00
DISCCART	603789.10	4135192.20	0.00	0.00	0.00
DISCCART	603809.10	4135192.20	0.00	0.00	0.00
DISCCART	603209.10	4135212.20	0.00	0.00	0.00
DISCCART	603229.10	4135212.20	0.00	0.00	0.00
DISCCART	603249.10	4135212.20	0.00	0.00	0.00
DISCCART	603269.10	4135212.20	0.00	0.00	0.00
DISCCART	603289.10	4135212.20	0.00	0.00	0.00
DISCCART	603309.10	4135212.20	0.00	0.00	0.00
DISCCART	603329.10	4135212.20	0.00	0.00	0.00
DISCCART	603349.10	4135212.20	0.00	0.00	0.00
DISCCART	603369.10	4135212.20	0.00	0.00	0.00
DISCCART	603389.10	4135212.20	0.00	0.00	0.00
DISCCART	603409.10	4135212.20	0.00	0.00	0.00
DISCCART	603489.10	4135212.20	0.00	0.00	0.00
DISCCART	603509.10	4135212.20	0.00	0.00	0.00
DISCCART	603529.10	4135212.20	0.00	0.00	0.00
DISCCART	603549.10	4135212.20	0.00	0.00	0.00
DISCCART	603609.10	4135212.20	0.00	0.00	0.00
DISCCART	603629.10	4135212.20	0.00	0.00	0.00
DISCCART	603649.10	4135212.20	0.00	0.00	0.00
DISCCART	603669.10	4135212.20	0.00	0.00	0.00
DISCCART	603689.10	4135212.20	0.00	0.00	0.00
DISCCART	603709.10	4135212.20	0.00	0.00	0.00
DISCCART	603749.10	4135212.20	0.00	0.00	0.00
DISCCART	603769.10	4135212.20	0.00	0.00	0.00
DISCCART	603789.10	4135212.20	0.00	0.00	0.00
DISCCART	603809.10	4135212.20	0.00	0.00	0.00
DISCCART	603209.10	4135232.20	0.00	0.00	0.00
DISCCART	603229.10	4135232.20	0.00	0.00	0.00
DISCCART	603249.10	4135232.20	0.00	0.00	0.00
DISCCART	603269.10	4135232.20	0.00	0.00	0.00
DISCCART	603289.10	4135232.20	0.00	0.00	0.00
DISCCART	603309.10	4135232.20	0.00	0.00	0.00
DISCCART	603329.10	4135232.20	0.00	0.00	0.00
DISCCART	603349.10	4135232.20	0.00	0.00	0.00
DISCCART	603369.10	4135232.20	0.00	0.00	0.00
DISCCART	603389.10	4135232.20	0.00	0.00	0.00
DISCCART	603489.10	4135232.20	0.00	0.00	0.00
DISCCART	603509.10	4135232.20	0.00	0.00	0.00
DISCCART	603529.10	4135232.20	0.00	0.00	0.00
DISCCART	603549.10	4135232.20	0.00	0.00	0.00
DISCCART	603569.10	4135232.20	0.00	0.00	0.00
DISCCART	603589.10	4135232.20	0.00	0.00	0.00
DISCCART	603629.10	4135232.20	0.00	0.00	0.00
DISCCART	603649.10	4135232.20	0.00	0.00	0.00
DISCCART	603669.10	4135232.20	0.00	0.00	0.00

Eastridge\_BART

DISCCART	603689.10	4135232.20	0.00	0.00	0.00
DISCCART	603729.10	4135232.20	0.00	0.00	0.00
DISCCART	603749.10	4135232.20	0.00	0.00	0.00
DISCCART	603769.10	4135232.20	0.00	0.00	0.00
DISCCART	603789.10	4135232.20	0.00	0.00	0.00
DISCCART	603209.10	4135252.20	0.00	0.00	0.00
DISCCART	603229.10	4135252.20	0.00	0.00	0.00
DISCCART	603249.10	4135252.20	0.00	0.00	0.00
DISCCART	603269.10	4135252.20	0.00	0.00	0.00
DISCCART	603289.10	4135252.20	0.00	0.00	0.00
DISCCART	603309.10	4135252.20	0.00	0.00	0.00
DISCCART	603349.10	4135252.20	0.00	0.00	0.00
DISCCART	603369.10	4135252.20	0.00	0.00	0.00
DISCCART	603389.10	4135252.20	0.00	0.00	0.00
DISCCART	603449.10	4135252.20	0.00	0.00	0.00
DISCCART	603469.10	4135252.20	0.00	0.00	0.00
DISCCART	603509.10	4135252.20	0.00	0.00	0.00
DISCCART	603529.10	4135252.20	0.00	0.00	0.00
DISCCART	603549.10	4135252.20	0.00	0.00	0.00
DISCCART	603569.10	4135252.20	0.00	0.00	0.00
DISCCART	603589.10	4135252.20	0.00	0.00	0.00
DISCCART	603609.10	4135252.20	0.00	0.00	0.00
DISCCART	603669.10	4135252.20	0.00	0.00	0.00
DISCCART	603709.10	4135252.20	0.00	0.00	0.00
DISCCART	603729.10	4135252.20	0.00	0.00	0.00
DISCCART	603749.10	4135252.20	0.00	0.00	0.00
DISCCART	603769.10	4135252.20	0.00	0.00	0.00
DISCCART	603789.10	4135252.20	0.00	0.00	0.00
DISCCART	603229.10	4135272.20	0.00	0.00	0.00
DISCCART	603249.10	4135272.20	0.00	0.00	0.00
DISCCART	603269.10	4135272.20	0.00	0.00	0.00
DISCCART	603289.10	4135272.20	0.00	0.00	0.00
DISCCART	603309.10	4135272.20	0.00	0.00	0.00
DISCCART	603369.10	4135272.20	0.00	0.00	0.00
DISCCART	603449.10	4135272.20	0.00	0.00	0.00
DISCCART	603469.10	4135272.20	0.00	0.00	0.00
DISCCART	603489.10	4135272.20	0.00	0.00	0.00
DISCCART	603509.10	4135272.20	0.00	0.00	0.00
DISCCART	603549.10	4135272.20	0.00	0.00	0.00
DISCCART	603569.10	4135272.20	0.00	0.00	0.00
DISCCART	603589.10	4135272.20	0.00	0.00	0.00
DISCCART	603609.10	4135272.20	0.00	0.00	0.00
DISCCART	603629.10	4135272.20	0.00	0.00	0.00
DISCCART	603649.10	4135272.20	0.00	0.00	0.00
DISCCART	603709.10	4135272.20	0.00	0.00	0.00
DISCCART	603729.10	4135272.20	0.00	0.00	0.00
DISCCART	603749.10	4135272.20	0.00	0.00	0.00
DISCCART	603769.10	4135272.20	0.00	0.00	0.00

Eastridge\_BART

DISCCART	603209.10	4135292.20	0.00	0.00	0.00
DISCCART	603249.10	4135292.20	0.00	0.00	0.00
DISCCART	603269.10	4135292.20	0.00	0.00	0.00
DISCCART	603289.10	4135292.20	0.00	0.00	0.00
DISCCART	603309.10	4135292.20	0.00	0.00	0.00
DISCCART	603329.10	4135292.20	0.00	0.00	0.00
DISCCART	603349.10	4135292.20	0.00	0.00	0.00
DISCCART	603429.10	4135292.20	0.00	0.00	0.00
DISCCART	603449.10	4135292.20	0.00	0.00	0.00
DISCCART	603469.10	4135292.20	0.00	0.00	0.00
DISCCART	603489.10	4135292.20	0.00	0.00	0.00
DISCCART	603509.10	4135292.20	0.00	0.00	0.00
DISCCART	603529.10	4135292.20	0.00	0.00	0.00
DISCCART	603589.10	4135292.20	0.00	0.00	0.00
DISCCART	603609.10	4135292.20	0.00	0.00	0.00
DISCCART	603629.10	4135292.20	0.00	0.00	0.00
DISCCART	603649.10	4135292.20	0.00	0.00	0.00
DISCCART	603669.10	4135292.20	0.00	0.00	0.00
DISCCART	603689.10	4135292.20	0.00	0.00	0.00
DISCCART	603709.10	4135292.20	0.00	0.00	0.00
DISCCART	603729.10	4135292.20	0.00	0.00	0.00
DISCCART	603749.10	4135292.20	0.00	0.00	0.00
DISCCART	603249.10	4135312.20	0.00	0.00	0.00
DISCCART	603269.10	4135312.20	0.00	0.00	0.00
DISCCART	603289.10	4135312.20	0.00	0.00	0.00
DISCCART	603309.10	4135312.20	0.00	0.00	0.00
DISCCART	603329.10	4135312.20	0.00	0.00	0.00
DISCCART	603349.10	4135312.20	0.00	0.00	0.00
DISCCART	603369.10	4135312.20	0.00	0.00	0.00
DISCCART	603469.10	4135312.20	0.00	0.00	0.00
DISCCART	603489.10	4135312.20	0.00	0.00	0.00
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DISCCART	603549.10	4135312.20	0.00	0.00	0.00
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DISCCART	603609.10	4135312.20	0.00	0.00	0.00
DISCCART	603629.10	4135312.20	0.00	0.00	0.00
DISCCART	603649.10	4135312.20	0.00	0.00	0.00
DISCCART	603669.10	4135312.20	0.00	0.00	0.00
DISCCART	603689.10	4135312.20	0.00	0.00	0.00
DISCCART	603709.10	4135312.20	0.00	0.00	0.00
DISCCART	603729.10	4135312.20	0.00	0.00	0.00
DISCCART	603749.10	4135312.20	0.00	0.00	0.00
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DISCCART	603289.10	4135332.20	0.00	0.00	0.00
DISCCART	603309.10	4135332.20	0.00	0.00	0.00
DISCCART	603329.10	4135332.20	0.00	0.00	0.00
DISCCART	603349.10	4135332.20	0.00	0.00	0.00

Eastridge\_BART

DISCCART	603409.10	4135332.20	0.00	0.00	0.00
DISCCART	603429.10	4135332.20	0.00	0.00	0.00
DISCCART	603449.10	4135332.20	0.00	0.00	0.00
DISCCART	603489.10	4135332.20	0.00	0.00	0.00
DISCCART	603509.10	4135332.20	0.00	0.00	0.00
DISCCART	603529.10	4135332.20	0.00	0.00	0.00
DISCCART	603549.10	4135332.20	0.00	0.00	0.00
DISCCART	603569.10	4135332.20	0.00	0.00	0.00
DISCCART	603589.10	4135332.20	0.00	0.00	0.00
DISCCART	603649.10	4135332.20	0.00	0.00	0.00
DISCCART	603669.10	4135332.20	0.00	0.00	0.00
DISCCART	603689.10	4135332.20	0.00	0.00	0.00
DISCCART	603709.10	4135332.20	0.00	0.00	0.00
DISCCART	603729.10	4135332.20	0.00	0.00	0.00
DISCCART	603249.10	4135352.20	0.00	0.00	0.00
DISCCART	603269.10	4135352.20	0.00	0.00	0.00
DISCCART	603329.10	4135352.20	0.00	0.00	0.00
DISCCART	603409.10	4135352.20	0.00	0.00	0.00
DISCCART	603429.10	4135352.20	0.00	0.00	0.00
DISCCART	603449.10	4135352.20	0.00	0.00	0.00
DISCCART	603469.10	4135352.20	0.00	0.00	0.00
DISCCART	603529.10	4135352.20	0.00	0.00	0.00
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DISCCART	603569.10	4135352.20	0.00	0.00	0.00
DISCCART	603589.10	4135352.20	0.00	0.00	0.00
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DISCCART	603429.10	4135372.20	0.00	0.00	0.00
DISCCART	603449.10	4135372.20	0.00	0.00	0.00
DISCCART	603469.10	4135372.20	0.00	0.00	0.00
DISCCART	603489.10	4135372.20	0.00	0.00	0.00
DISCCART	603509.10	4135372.20	0.00	0.00	0.00
DISCCART	603569.10	4135372.20	0.00	0.00	0.00
DISCCART	603589.10	4135372.20	0.00	0.00	0.00
DISCCART	603609.10	4135372.20	0.00	0.00	0.00
DISCCART	603649.10	4135372.20	0.00	0.00	0.00
DISCCART	603669.10	4135372.20	0.00	0.00	0.00
DISCCART	603229.10	4135392.20	0.00	0.00	0.00
DISCCART	603289.10	4135392.20	0.00	0.00	0.00

Eastridge\_BART

DISCCART	603309.10	4135392.20	0.00	0.00	0.00
DISCCART	603369.10	4135392.20	0.00	0.00	0.00
DISCCART	603389.10	4135392.20	0.00	0.00	0.00
DISCCART	603409.10	4135392.20	0.00	0.00	0.00
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DISCCART	603449.10	4135392.20	0.00	0.00	0.00
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DISCCART	603489.10	4135392.20	0.00	0.00	0.00
DISCCART	603509.10	4135392.20	0.00	0.00	0.00
DISCCART	603529.10	4135392.20	0.00	0.00	0.00
DISCCART	603549.10	4135392.20	0.00	0.00	0.00
DISCCART	603629.10	4135392.20	0.00	0.00	0.00
DISCCART	603649.10	4135392.20	0.00	0.00	0.00
DISCCART	603669.10	4135392.20	0.00	0.00	0.00
DISCCART	603249.10	4135412.20	0.00	0.00	0.00
DISCCART	603269.10	4135412.20	0.00	0.00	0.00
DISCCART	603289.10	4135412.20	0.00	0.00	0.00
DISCCART	603309.10	4135412.20	0.00	0.00	0.00
DISCCART	603389.10	4135412.20	0.00	0.00	0.00
DISCCART	603409.10	4135412.20	0.00	0.00	0.00
DISCCART	603429.10	4135412.20	0.00	0.00	0.00
DISCCART	603449.10	4135412.20	0.00	0.00	0.00
DISCCART	603469.10	4135412.20	0.00	0.00	0.00
DISCCART	603489.10	4135412.20	0.00	0.00	0.00
DISCCART	603509.10	4135412.20	0.00	0.00	0.00
DISCCART	603529.10	4135412.20	0.00	0.00	0.00
DISCCART	603549.10	4135412.20	0.00	0.00	0.00
DISCCART	603569.10	4135412.20	0.00	0.00	0.00
DISCCART	603609.10	4135412.20	0.00	0.00	0.00
DISCCART	603629.10	4135412.20	0.00	0.00	0.00
DISCCART	603269.10	4135432.20	0.00	0.00	0.00
DISCCART	603289.10	4135432.20	0.00	0.00	0.00
DISCCART	603409.10	4135432.20	0.00	0.00	0.00
DISCCART	603429.10	4135432.20	0.00	0.00	0.00
DISCCART	603449.10	4135432.20	0.00	0.00	0.00
DISCCART	603469.10	4135432.20	0.00	0.00	0.00
DISCCART	603489.10	4135432.20	0.00	0.00	0.00
DISCCART	603509.10	4135432.20	0.00	0.00	0.00
DISCCART	603529.10	4135432.20	0.00	0.00	0.00
DISCCART	603569.10	4135432.20	0.00	0.00	0.00
DISCCART	603269.10	4135452.20	0.00	0.00	0.00
DISCCART	603289.10	4135452.20	0.00	0.00	0.00
DISCCART	603449.10	4135452.20	0.00	0.00	0.00
DISCCART	603469.10	4135452.20	0.00	0.00	0.00
DISCCART	603489.10	4135452.20	0.00	0.00	0.00
DISCCART	603509.10	4135452.20	0.00	0.00	0.00
DISCCART	603469.10	4135472.20	0.00	0.00	0.00
DISCCART	603489.10	4135472.20	0.00	0.00	0.00

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                                Eastridge_BART
DISCCART      603509.10   4135472.20   0.00   0.00   0.00
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
  SURFFILE 724945.SFC
  PROFFILE 724945.PFL
  SURFDATA 23293 2009
  UAIRDATA 23230 2009 OAKLAND/WSO_AP
  PROFBASE 15.5 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
** Auto-Generated Plotfiles
  PLOTFILE ANNUAL ALL Eastridge_BART.AD\AN00GALL.PLT 31
  PLOTFILE ANNUAL GDWY Eastridge_BART.AD\AN00G001.PLT 32
  PLOTFILE ANNUAL ALLELSE Eastridge_BART.AD\AN00G002.PLT 33
  FILEFORM EXP
OU FINISHED
**
*****
** Project Parameters
*****
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    World Geodetic System 1984
** DTMRGN   Global Definition
** UNITS    m
** ZONE     10
** ZONEINX  0
**

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