

BSV Phase II - Environmental Commitments Record

ROD

Legend

	Blue Text	Indicates updates since last quarterly report
		Indicates N/A or no update/activity is applicable to this quarterly report
	"gray row"	Indicates mitigation measure complete or N/A
	8.47101	Acronyms
	AEOC	Arena Entertainment and Operations Committee
	ARTP	Archaeological Resources Treatment Plan
	BAAQMD	Bay Area Air Quality Management District
	Caltrans	California Department of Transportation
	CEOP	Construction Education and Outreach Plan
	CHSRA	California High Speed Rail Authority
	CMP	Containment Management Plan
	СОМР	Construction Outreach Management Program
	СР	Consulting Parties
	CTMP	Construction Transportation Management Plan
	CWG	Community Working Groups
	ESCP	Emergency Services Coordination
	FHA	Federal Highway Administration
	FRA	Federal Railroad Administration
_	FST	Floating Slab Track
	FTA	Federal Transit Administration
Ζ	ISA	Initial Site Assessment
LEGEND	IST	Isolated Slab Track
S	NA	Native American
"	PA	Programmatic Agreement
	RAPs	Remedial Action Plans
	ROD	Record of Decision
	RWQCB	Regional Water Quality Control Board
	SHPO	State Historic Preservation Officer
	SJRRC	San Joaquin Regional Rail Commission
	SJWC	San Jose Water Company
	ТСР	Traffic Control Plans
	VTA	Santa Clara Valley Transportation Authority
		Timeframe for Implementation letter codes:
	С	Construction
	D	Design
	Р	Post Construction
		sponsible Party codes: VTA and/or C = Contractor
		Compliance Status letter codes:
	IC	In Compliance
	OU	Out of Compliance
	СС	Complete and Closed
	N/A	Non Applicable

Source Document Abbreviations Santa Clara Valley Transportation Authority, Board of Directors BOD ATT-A April 5, 2018, Board Memorandum. Attachment A-Recommended Project Description Supplemental Environmental Impact Statement (SEIS), Subsequent Environmental Impact Report (SEIR) Vol-1 Volume 1 CH-1 Chapter 1 **Executive Summary** CH-2 Chapter 2 Alternatives CH-3 NEPA and CEQA Transportation Operation Analysis Chapter 3 CH-4 Chapter 4 NEPA Alternatives Analysis of Operations CH-5 Chapter 5 NEPA Alternatives Analysis of Construction CH-6 Chapter 6 CEQA Alternatives Analysis of Construction and Operation CH-7 Chapter 7 Other NEPA and CEQA Considerations CH-8 Chapter 8 Section 4(f) of the Department of Transportation Act of 1966 CH-9 Chapter 9 Financial Considerations CH-10 Chapter 10 Agency and Community Participation Vol-2 Volume 2. Responses to Comments

VTA Sustai	nability Pr	actices
VTA-Green		VTA Green Building Policy 400.004
VTA-Sust		VTA Sustainable Landscaping Policy CMA-CL-PL-7120

Federal Transit Administration Record of Decision

Transportatior Authority					-		II - Environmental Monitoring & Rep	Commitments Record orting Program								
			мм	IRP Code	1	lent					Imj	plementat	tion		2023	
Env Doc Chapter / Mitigation Topic	Environme ntal Document Chapter	Mitigation Topic	Chron o #	Measure	e#	Source Docum	Summary	Mitigation Measure	Location	Tim eframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post- construction (P)	Responsible Party	Compliance Status		Quarter Mitigatior Completed
fransportation / Develop and Implement a Construction Education and Outreach Yan	Transporta tion	Develop and Implement a Construction Education and Outreach Plan	1	- MMRP- TRA- CNST-	A- Vo 01 RC	1-1,	Develop a Construction ducation and Outreach Plan (CEOP)	Develop and Implement a Construction Education and Outreach Plan: VTA will develop a Construction Education and Outreach Plan (ECDP) in coordination with the Cities of San Jose and Santa Clant of toster communication between VTA various municipalities, and the public during construction. VTA will develop the ECDP after the environmental process is complete and implement in prior to construction. The ECDP will ensure that VTA coordinates construction activities with existing business operations and other development projects to minimize disruption and delays. The ECDP will also establish a process that will address the context of the constructions of all contracts through which the BART Extension will be implemented. Critical components of the ECDP will include, but are not limited to, the following requirements (MMRP-TRA-CNST-AO2 through A-17).	Program-wide	D	с		VTA	IC	This is a summary mitigation measure. For individual components of the CEOP please refer to MMRP-TRAC.NST-A-02 through A-16, below. The CEOP was prepared in two parts, as follows: Part A: Planning Phase Part B: Construction The CEOP was added as a reference document in the VTA-CSJ and VTA-CSC Cooperative Agreements.	
ransportation / Jevelop and Implement a Construction Education and Outreach Plan	Transporta tion	Develop and Implement a Construction Education and Outreach Plan	2	- MMRP- TRA- CNST-	A- Vo 02 RC			Develop and Implement a Construction Education and Outreach Plan: Establish field office(s) accessible to the public with dedicated community outreach staff and defined hours.	Program-wide	D	с		VTA	IC	The Santa Clara Station field office will be incorporated into the 1st floor of the 2830 De La Cruz project office. The Downtown-Dindon Field office is currently under construction in conjunction with the new YTA Downtown Service Center. It is anticipated to be opened in 2024. The search for a location for the 28th Street/Little Portugal field office is still underway.	
ransportation / Develop and Implement a Construction Education and Outreach Plan	Transporta tion	Develop and Implement a Construction Education and Outreach Plan	3	- MMRP- TRA- CNST-	A- Vo 03 RC			Develop and Implement a Construction Education and Outreach Plan: Provide and maintain a 24-hour/7-day a week project hotline for emergencies.	Program-wide	D	с		VTA	IC	In Q4 2023, VTA maintained the public outreach phone number and email for project inquiries [English 408-321-2345, Spanish, Tagalog, Chinese, Vietnamese, Korean & Portuguese: 408-321-2300. TTY: 408-321-2330 and vtabart@vtabsv.com).	

Valley Transportation								I Commitments Record								
🗨 🐨 ື Authonty		I			Witig	gatio	n Monitoring & Rep	borting Program	1	I			I			
			MN	/IRP Code		ŧ					Im	plementat	ion		2023	
Env Doc Chapter / Mitigation Topic	Environme ntal Document Chapter	Mitigation Topic	Chron o #	Measur		Source Docume	Summary	Mitigation Measure	Location	Tim eframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post- construction (P)	Responsible Party	Compliance Status	Q4	Quarter Mitigation Completed
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transporta tion	Develop and Implement a Construction Education and Outreach Plan	4	- MMRP- TRA- CNST-	A- V 04 F	'ol-1, ROD	Conduct Business Operational Surveys	Develop and Implement a Construction Education and Outreach Plan: Conduct preconstruction operational surveys of businesses located adjacent to construction areas to ascertain hours of operation, access, deliveries, customer base, special circumstances, and key contacts.	Program-wide	D	с		VTA	IС	VTA conducted pre-construction operational as well as access and service needs interviews for over 50 businesses, institutions and schools in the project corridor adjacent to future potential construction staging areas in Q4 2020. Coordination with new and existing businesses near expected construction areas is ongoing to prevent impacts to the businesses.	
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transporta tion	Develop and Implement a Construction Education and Outreach Plan	5	- MMRP- TRA- CNST-	A- V 05 F	'ol-1, ROD	Coordinate on Other Construction Projects	Develop and Implement a Construction Education and Outreach Plan: Coordinate with cities to obtain information about upcoming adjacent construction projects to minimize disruptions and delays.	Program-wide	D	с		VTA	IC	In Q4 2023, meetings were held with City of San Jose's Arena Entertainment and Operations Committee (AEOC) on 10/12/2023, 11/10/2023, and 12/14/2023, meetings with Downtown West (DTW) and Hunter Properties, 1 meeting with Holland Partners, 1 meeting with the future Diridon Intermodal Facility project, and 1 meeting with the City's Airport Connector Project.	
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transporta	Develop and Implement a Construction Education and Outreach Plan	6			'ol-1, ROD	Engage with Stakeholders	Develop and Implement a Construction Education and Outreach Plan: Inform and engage partner agencies, stakeholders, including VTA'S BART Silicon Valley Phase II Community Working Groups, business organizations, business owners, tenants, the media, and the public on a regular and frequent basis.	Program-wide	D	c		VTA	ĸc	VTA BSVII presented to stakeholder groups in Q4 of 2023, including: the San Jose Chamber of Commerce on 12/14/23. In Q4 2023, BSVII held five (5) program-wide meetings with the City of San Jose staff on 10/2, 10/15, 10/30, 11/13, and 12/18. VTA held one in-person CWG meeting on 10/24. VTA also held 2 Santa Clara Design Review Committee Meetings (11/17, 12/8) An additional coordination meetings with SAP/Sharks staff (12/14, 12/19); 5 meetings with caltrans (10/24, 11/7); 2 meetings with SWUVP (10/10, 11/7) meetings with caltrans (10/24, 11/7); 2 meetings with SWUVP (10/10, 11/7); 1 meetings with caltrans (10/24, 11/7); 2 meetings with SWUVP (10/10, 11/7); 1 meetings with caltrans (10/24, 11/7); 2 meetings with SWUVP (10/10, 11/7); 1 meetings with caltrans (10/24, 11/7); 2 meetings with SWUVP (10/10, 11/17); 1 meetings with caltrans (10/24, 11/7); 2 meetings with SWUVP (10/10, 11/17); 1 meetings with caltrans (10/24, 11/7); 2 meetings with SWUVP (10/10, 11/17); 1 meetings with caltrans (10/24, 11/7); 2 meetings with SWUVP (10/10, 11/17); 1 meetings with caltrans (10/24, 11/7); 2 meetings with SWUVP (10/10, 11/17); 1 meetings with caltrans (10/24, 11/7); 2 meetings with SWUVP (10/10, 11/17); 1 meetings with caltrans (10/24, 11/17); 2 meetings with SWUVP (10/10, 11/17); 1 meetings with caltrans (12/14). A more states and transfer to discuss design of city access facilities for the 28th Street/Little Portugal Station (held on 11/27) and 12/14). Downtown and no lose Station (12/5), Diridom station (12/8), and a joint Downtown and Diridom Station workshop	
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transporta tion	Develop and Implement a Construction Education and Outreach Plan	7	- MMRP- TRA- CNST-		'ol-1, ROD	Engage Public	Develop and Implement a Construction Education and Outrach Plan: Conduct public workshops, meetings, or webinars for community members. Hold regular meetings with the surrounding businesses and residents throughout the course of construction.	Program-wide	D	с		VTA	ю	VTA attended 2 Public Tabling Events [11/12, 13/3] and participated in 11 meetings related to the Five Wounds Urban Village Plan; Meetings held with potential new Community Working Group (CWG) members	
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transporta	Develop and Implement a Construction Education and Outreach Plan	8		A- V 08 F	'ol-1, ROD	Distribute Project Information	Develop and Implement a Construction Education and Outreach Plan: Distribute and post project Information and advanced construction notification via the project website, social and traditional media, signage, face-to-face visits, flyers, mailers, emails, and other communication methods as appropriate.	Program-wide	D	с		VTA	ĸ	In Q4 2023: • 4 construction notices were issued and fliered; • 59 Social Media posts were shared	

Valley Transportation								Commitments Record								
Authority					Miti	gatio	n Monitoring & Rep	porting Program								
			MN	/IRP Code		Ŧ					Im	plementat	ion		2023	
	Environme			1	_	nmer	5				-				Q4	Quarter
Env Doc Chapter / Mitigation Topic	ntal Document Chapter	Mitigation Topic	Chron o #	Measure	• #	Source Doc	Summa	Mitigation Measure	Location	Tim eframe: Design (D)	Timeframe: Construction (C)	Timeframe:Post- construction (P)	Responsible Party	Compliance Status		Mitigation Completed
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transporta tion	Develop and Implement a Construction Education and Outreach Plan	9			/ol-1, ROD	Develop Project Signage Program	Develop and Implement a Construction Education and Outreach Plan: Develop a project signage program identifying project corridor, station areas, construction timeline, and funding.	Program-wide	D	с		VTA	K	VTA drafted templates for project identification, project corridor, and contractor field office signs. VTA is also working with the tunnel and trackwork contractor to develop a signage plan for upcoming Project stages.	
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transporta tion	Develop and Implement a Construction Education and Outreach Plan	10	- MMRP- TRA- CNST-	A- \ 10	/ol-1, ROD	Display Maps and Construction Schedule	Develop and Implement a Construction Education and Outreach Plan: Display maps and construction schedule information in project field office(s) and around the construction area.	Program-wide	D	с		VTA	IC	Construction has not begun, therefore construction schedule information has not been posted at construction sites. This measure will be implemented in future quarters.	
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transporta tion	Develop and Implement a Construction Education and Outreach Plan	11	- MMRP TRA- CNST-		/ol-1, ROD	Display Parking and Access	Develop and implement a Construction Education and Outreach Plan: Increase visibility of alternative parking and access via signage, website postings, and other communication methods.	Program-wide	D	с		VTA	ю	In Q4 2023, VTA continued developing a construction webpage and a construction activity me plat will provide information about parking availability within each work area. In the interim VTA has published a construction noticing page to post active construction activities.	
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transporta tion	Develop and Implement a Construction Education and Outreach Plan	12		A- \ 12	/ol-1, ROD	Maintain Media Relations	Develop and implement a Construction Education and Outreach Plan: Maintain media relations (i.e., news releases, news articles, and interviews).	Program-wide	D	с		VTA	ю	The media covered the project 56 times and VTA wrote 7 blogs in Q4 2023.	
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transporta tion	Develop and Implement a Construction Education and Outreach Plan	13	- MMRP- TRA- CNST-	A- \ 13	/ol-1, ROD	Designate Community Outreach Personnel	Develop and Implement a Construction Education and Outreach Plan: Designate community outreach personnel available on site for the duration of the construction project.	Program-wide	D	с		VTA	ю	VTA designated project staff that will lead outreach within each work area and the CP2 Contractor has two Community Construction Relationship Offices (CCR0s) that will be available during construction. Office hours will be established once the field offices are completed.	

Valley Transportation								Commitments Record								
Authority					Mit	igatio	on Monitoring & Rep	porting Program								
	Environme		MN	IRP Code		hent					Im	plementa	tion	<u> </u>	2023	_
Env Doc Chapter / Mitigation Topic	ntal Document Chapter	Mitigation Topic	Chron o #	Measur	re #	Source Docun	Summary	Mitigation Measure	Location	Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post- construction (P)	Responsible Party	Co mpliance Status		Quarter Mitigation Completed
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transporta tion	Develop and Implement a Construction Education and Outreach Plan	14	- MMRP- TRA- CNST-		Vol-1, ROD	Promote Access to Businesses	Develop and Implement a Construction Education and Outreach Plan: Work with property owners and business owners in the station areas to promote access to businesses during construction, including enhanced signage.	Program-wide	D	с		VTA	ю	VTA continues to refine the Business Resource Program (BRP) which includes four elements that will identify ways VTA can help alleviate disruptions and support the business community during construction.	
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transporta tion	Develop and Implement a Construction Education and Outreach Plan	15	- MMRP- TRA- CNST-		Vol-1, ROD	Market Businesses During Construction	Develop and Implement a Construction Education and Outreach Plan: Provide marketing assistance, technical business support, and cross-promotional efforts to businesses within the area impacted by construction to encourage customers to shop at businesses during construction.	Program-wide	D	с		VTA	ю	VTA continues to refine the Business Resource Program (BRP) which includes four elements that will identify ways VTA can help alleviate disruptions and support the business community during construction.	
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transporta tion	Develop and Implement a Construction Education and Outreach Plan	16	- MMRP- TRA- CNST-		Vol-1, ROD	Provide Notice of Utility Outages	Develop and Implement a Construction Education and Outreach Plan: Establish outreach to stakeholders to provide advanced notice of scheduled utility outages.	Program-wide	Đ	с		VTA	ю		
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transporta tion	Develop and Implement a Construction Education and Outreach Plan	17	- MMRP- TRA- CNST-		Vol-1, ROD	Proactive Multi-Language	Develop and Implement a Construction Education and Outreach Plan: Throughout development and implementation, the education and outreach activities will be comprehensive, seeking widespread involvement; practive, with efforts geared toward obtaining input, as well as disseminating information; responsive to various needs, including multiple languages and alternative formats; and timely, accurate, and results-oriented.	Program-wide	D	с		VTA	IC	This is a summary mitigation measure. For individual components of the Construction Education and Outreach Plan (CEOP) please refer to MMRP-TRA- CNST-A-02 through A-16, above.	

Valley Transportation							I Commitments Record								
Authonty				N	Aitigatio	on Monitoring & Re	porting Program								
	Environme		MN	1RP Code	nent	_				Im	plementa	tion		2023	-
Env Doc Chapter / Mitigation Topic	ntal Document Chapter	Mitigation Topic	Chron o #	Measure	# Source Docun	Summary	Mitigation Measure	Location	Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post- construction (P)	Responsible Party	Compliance Status	S.	Quarter Mitigation Completed
Transportation/ Develop and Implement a Construction Transportation Management Plan	Transportation	Develop Construction Transportation Management Plan (CTMP)	18	- MMRP-B TRA-0 CNST-		Develop Construction Transportation Management Plan (CTMP)	Develop and Implement a Construction Transportation Management Plan: After the environmental process is complete and prior to beginning any construction activity. VTA will work with the Cities of San Jose and Santa Clara to develop Master Cooperative Agreements that will direct all coordination and partnering efforts between VTA and the cities prior to and during construction of the BART Extension. One element of the Master Cooperative Agreements bears of the Adverted Partnering efforts between VTA and the cities prior to and during construction of the BART Extension. One element of the Master Cooperative Agreement's partnership with the Cities of San Jose and Santa Clara to coordinate location-specific circulation and access within and around the construction Dartnership with the Cities of San Jose and Santa Clara to coordinate location-specific circulation and access within and around the construction areas for all modes, including automobiles, trucks and construction vehicles, biocitiss, pedestrians, and public transportation such as buses and light rail. The CTMP will be erganized according to each of the ten major project elements lister form east to were salong the alignment: East Tunnel Portal, JAum Rock/28th Street Station, 21th Street Ventilation Structure, Downtown San Jose Station, Diriona di Locars Datter and Naroute the anglication exist on a dirion to all plans and specifications of all contracts through which the BART Extension will be implemented. Critical components of the CTMP are as follows: Sequencing schedule depicting the proposed location and timing of construction activities on a routine basis for the duration of the project. Propade phasing of construction, anticipated lane and street closures, detours, temporary signals, and street econfigurations, including durations of all of the above and signage requirements that the contractor must follow. Truck hall routes. Location specific requirements as applicable. In addition, YVA will work with t	Program-wide	Đ	c		VTA	¢	In Q4 2023 KST developed a first draft of the Early Work Construction and Tunneling and Heavy Construction at 28th Street/Utile Portugal BART Station and East Portal CTMP. The plan was developed through meetings with the City of San Jose as well as a meeting with Cristic Rey and Five Wounds National Perish (the IES Hall was unable to join). The CTMP was subnitted for initial draft comments to VTA, who reviewed and returned the draft. It was ultimately determined that with potential value engineering adjustments, the CTMP would require significant revisions and would be return to VTA for review in mid rebrary. In total, there were 2 meetings in Q4 2023 which focused solely on the CTMP development. KST's CTMP scopes for the remainder of Contract Package 2 remains as follows: 1. West Portal Early Work Construction (Approved) 2. Downtown San Jose and Diridon Early Work Construction and Tunneling and Heavy Construction 3. West Portal Tunneling and Heavy Construction 4. East Portal and 28th St Early Work Construction and Tunneling and Heavy Construction The remaining CTMPs will be developed in the order of 4, 2, and 3.	

Valley Transportation				-			Commitments Record								
Authority				м	itigatio	on Monitoring & Rep	orting Program								
	Environme		мм	IRP Code	nent	~				Imp	lementat	ion	L	2023	_
Env Doc Chapter / Mitigation Topic	ntal Document Chapter	Mitigation Tonic	Chron o #	Measure #	Source Docur	Summary	Mitigation Measure	Location	Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post- construction (P)	Responsible Party	Compliance Status		Quarter Mitigation Completed
Transportation/ Develop and Implement a Construction Transportation Management Plan	Transporta tion	Develop Construction Transportation Management Plan (CTMP)	19	- MMRP- B- TRA- 02 CNST-	Vol-1, ROD		Develop and Implement a Construction Transportation Management Plan: After the CTMP has been approved, individual Traffic Control Plans (TCP3) will be developed for specific design elements at each of the ten major project elements and throughout the Ayear duration of construction. The TCPs will address all modes including automobiles, trucks, and construction vehicles, bicyclists, pedestrians, and public transportation such as buses and light rail. The TCPs will be prepared by the contractor and approved by VTA and the applicable city prior to construction of the specific design element.	Program-wide	D	с		VTA	Ю	TCPs will be developed following the finalization of the contract specific CTMPs.	
Transportation/ Develop and implement a Construction Transportation Management Plan	Transporta	Develop Construction Transportation Management Plan (CTMP)	20	- MMRP- B- TRA- 03 CNST-	Vol-1, ROD	Include Site-Specific Requirements in Traffic Control Plans (TCPs)	Develop and implement a Construction Transportation Management Plan: The TCPs will include site-specific requirements such as the following. Alternative access routes where practicable and wayfinding signage for all detours affecting roadway users, including wehicular traffic, trucks and construction vehicles, bicyclists, and pedestrians. • Early signage of potential construction delays for all roadway users to choose alternate routes. • Minimum requirements for pedestrians and bicyclists to provide safe travel corridors within and through construction areas on provide detour routes. • Coordination between VTA and transit provider sa necessary prior to construction to ensure that any necessary re-routing of bur routes and temporary relocation of bus stops during construction is done to minimize impacts on bus inders. • Early signage of potential transit delays for transit riders to plan trips accordingly. • Notification of the Citles of San Jose and Santa Clara, business owners, residents, and key stakeholders regarding lane and road closures that would affect parking, including both off- street and on-street parking area. • Requirement that construction workers must park in construction staging areas or other designated areas. • Requirement that construction workers must park in constructions taging areas or other designated areas.	Program-wide	D	C		VTA	ĸ	TCPs will be developed following the finalization of the contract specific CTMPs.	

Transportation Authority						se II - Environmenta on Monitoring & Rej	I Commitments Record Dorting Program								
	Environme		MN	IRP Code	nent					Imj	olementat	ion	<u> </u>	2023	
Env Doc Chapter / Mitigation Topic	ntal Document Chapter	Mitigation Topic	Chron o #	Measure #	Source Docum	Summary	Mitigation Measure	Location	Tim eframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post- construction (P)	Responsible Party	Compliance Status		Quarte Mitigatio Complet
Yansportation / mplement an Emergency Services Scordination Plan (ESCP)	Transporta tion	Implement an Emergency Services Coordination Plan (ESCP)	21	- MMRP- TRA- CNST-C	Vol-1, ROD	Implement an Emergency Services Coordination Plan (ESCP)	Prepare and Implement an Emergency Services Coordination Plan: After the environmental process is complete and prior to beginning any construction activity, VTA will work with the Etics of San Jose and Santa Clara to develop Master Cooperative Agreements that will direct all coordination and partnering efforts between VTA and the cities prior to and during construction of the BART Extension. One element of the Master Cooperative Agreements with the cities will be the COMP. One of the three parts of the COMP is the Emergency Services Coordination (ESCP). As local emergency service routes and response times could be affected by construction activities, VTA will coordinate with local fire and police services to develop the ESCP to minimize this impact. The ESCP will be incorporated into the plans and specifications of all contracts through which the BART Extension will be implemented. Critical components of coordination are as follows. VTA will work with emergency providers to ensure emergency access to residents and potential lane and road closures. VTA will work with emergency revicer sponse times. VTA will work with the clar of the and police departments on the detour routes. VTA will work with the clar of the and police departments on the detour routes. VTA will work with the clar of the and police departments on the detour routes. VTA will work with the clar of read police departments on the detour routes. VTA will work with the clar of the one police departments on the detour routes.	Program-wide	D	с		VTA	IC	A cooperative agreement has been created between VTA and the Cities of San Jose and Santa Clara, and an ESCP will be created prior to construction. Adjustments to the ESCP will be implemented should they arise throughout the duration of construction. Outreach notices are kept in the VTA Salesforce program and can be provided if requested.	
Fransportation / Provide Temporary Replacement Parking at Diridon Station NEPA ONLY WITIGATION MEASURE	Transporta tion	Provide Temporary Replacement Parking at Diridon Station NEPA ONLY MITIGATION MEASURE	22	- MMRP- TRA CNST- D	Vol-1, ROD	Provide Temporary Parking at Diridon	Provide Temporary Replacement Parking at Diridon (Diridon Station Only, INFPA ONLY MITIGATION MEASURE): VTA will provide 450 temporary replacement off-street parking spaces during construction to mitigate for parking impacts caused by the BART Extension construction. The temporary replacement parking will be provided prior to the removal of existing parking spaces.	Diridon Station		с		VTA		Construction of the parking garage continues to progress and expected to be completed in Q1 2024. Operational date will be determined based on when the Diridon Construction Staging Area (CSA) will be activated.	

Valley Transportation Authority								Commitments Record								
Authority					Mitig	ation	Monitoring & Rep	orting Program								
			мм	IRP Code		t					In	plementa	ion		2023	
Env Doc Chapter / Mitigation Topic	Environme ntal Document Chapter	Mitigation Topic	Chron o #	Measur	re #	Source Docume	Summary	Mitigation Measure	Location	Tim eframe: Design (D)	Timeframe: Construction (C)	Fimeframe: Post- construction (P)	Responsible Party	Compliance Status	Q4	Quarter Mitigation Completed
Transportation/ Implement Intersection Improvements at Coleman Avenue and Brokaw Road (for TOJD)	Transporta tion	Implement Intersection Improvements at Coleman Avenue and Brokaw Road (for TOJD)	23	- MMRP- TRA-A			Improve Intersection at Coleman Ave. & Brokaw Rd.	Implement Intersection Improvements at Coleman Avenue and Brokaw Road (for TOID): Change the signal control for Brokaw Road (the east and west legs of this intersection) from Protected Left-Turn phasing to Spith Phase. Add a shared through/left-turn lane to the east and west approaches within the existing right-of-way. Change the existing shared through/right- turn lanes to right-turn only lanes on the east and west approaches, and change the eastbound right-turn coling from include to Overlap, indicating that many eastbound right turns would be able to turn right on red.	TOJD; Santa Clara		с		VTA	IC	TOD is not included in CP1 through CP4. Once TOD contracts are underway these measures will be addressed.	
Transportation/ Implement Intersection Improvements at Lafayette Street and Lewis Street (for TOJD)		Implement Intersection Improvements at Lafayette Street and Lewis Street (for TOJD)	24	- MMRP- TRA-B			Improve Intersection at Lafayette St. & Lewis St.	Implement Intersection Improvements at Lafayette Street and Lewis Street (for TOID): Shift the westbound approach inans on Lewis Street to the south to allow for the current through/right-turn lane to operate as a separate reinguite. Lurn lane and a separate through lane. A shift of approximately 2 feet would increase the current through/right-turn lane width to 20 feet, which would allow adequate room for right-turning vehicles to proceed past vehicles traveling straight through the intersection and make the right turn onto northbound Lafayette Street. The westbound approach and receiving lanes would be slightly offset as a result, which can be addressed with dashed pavement markings across the intersection.	TOJD; Santa Clara		с	р	VTA	ic	TOD is not included in CP1 through CP4. Once TOD contracts are underway these measures will be addressed.	
Transportation/ Implement Intersection Improvements at the Intersection of Coleman Avenue and I880 Southbound Ramps (for TOJD)	Transporta tion	Implement Intersection Improvements at the Intersection of Coleman Avenue and I880 Southbound Ramps (for	25	- MMRP- TRA-C		ol-1,	Improve Intersection at Coleman Ave. & 1880	Implement Intersection Improvements at the Intersection of Coleman Avenue and I880 Southbound Ramps (for TOID): Convert the second (center) left-turn lane on the I-880 off- ramp (the intersection's westbound approach) to a shared left/right-turn lane. Replace the lane control signs and the pavement markings on the off-ramp to reflect the new lane usage.	TOJD; Santa Clara		с	р	VTA	IC	TOD is not included in CP1 through CP4. Once TOD contracts are underway these measures will be addressed.	
Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	26	- MMRP- AQ- CNST-		ol-1,		Implement Dust Control Measures: VTA will require construction contractors to implement Dust construction mitigation measures and additional construction mitigation measures recommended by Bay Area Air Quality Management District (BAAQMD) to reduce fugitive dust emissions. Emission reduction measures will include the following applicable measures (<i>MMRP:AQ-CNSTA-02 through A-15, below)</i> or similar performing measures (additional measures may be identified by BAAQMD or the contractor, as appropriate).	Program-wide		c		VTA/C	ιC	This is a summary measure, and has been applied as shown in the mitigation measures MMRP-AQ-CNST-A-02 through A-15 below.	
Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	27	- MMRP- AQ- CNST-		ol-1, v OD V		Implement Dust Control Measures: The contractor will water all exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, unpaved access roadd) two times per day or as needed to control dust. In times of drought, an effective combination of dust controls may be used in lieu of watering, such as soil binders/stabilizers, or watering may be used to form a crust on undisturbed areas.	Program-wide		c		VTA/C	ĸ	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: No construction activities took place in Q4 2023. This measure will be applied in future quarters as necessary.	

Valley Transportation Authority								Commitments Record								
Authority					Miti	gation	Monitoring & Rep	oorting Program								
			мм	ARP Code		ŧ						Implementa	ition		2023	
Env Doc Chapter / Mitigation Topic	Environme ntal Document Chapter	Mitigation Topic	Chron o #	Measu	re #	Source Docume	Summary	Mitigation Measure	Location	Tim eframe: Design (D)	Timeframe:	onstruction (C) meframe: Post- onstruction (P)	Responsible Party	Compliance Status	Q4	Quarter Mitigation Completed
Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	28	- MMRP- AQ- CNST-		/ol-1, ROD	Maintain Soil Moisture Content	Implement Dust Control Measures: The contractor will water all exposed surfaces at a frequency that will maintain a minimum soil moisture content of 12 percent. Moisture content can be verified by absamples or a moisture probe, although such verification is typically visual. No visible dust emissions are permitted to leave the construction area.	Program-wide		c	8 1 0	VTA/C		The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: No construction activities took place in Q4 2023. This measure will be applied in future quarters as necessary.	
Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	29	- MMRP- AQ- CNST-		/ol-1, ROD	Cover or Moisten Haul Trucks	Implement Dust Control Measures: The contractor will cover or moisten all haul trucks that transport soil, sand, or other loose material offsite such that there are no dust emissions.	Program-wide		c		VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Shata Clara Station, and CP-4 Underground Stations, a General Engineering Counstlant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: No construction activities took place in Q4 2023. This measure will be applied in future quarters as necessary.	
Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	30	- MMRP- AQ- CNST-		/ol-1, ROD	Use Wet Power Vacuum Street Sweepers	Implement Dust Control Measures: The contractor will remove all visible mud or dirt track- out onto adjacent public roads using wet power vacuum street sweepers at least once per day, or more frequently if needed to control track-out during active soil hauling operations. The use of dry power sweeping is prohibited.	Program-wide		c		VTA/C	κc	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Shata Clara Station, and CP-4 Underground Stations, a General Engineering Counstant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: No construction activities took place in Q4 2023. This measure will be applied in future quarters as necessary.	

Valley Transportation Authority							Il Commitments Record								
Autnonty	I		I		viitigat	ion Monitoring & Re		I						2023	
			м	ARP Code	ţ					Imp	lementati	ion			_
Env Doc Chapter / Mitigation Topic	Environme ntal Document Chapter	Mitigation Topic	Chron o #	Measure	# Source Docume	Summary	Mitigation Measure	Location	Tim eframe: Design (D)	Timeframe: Construction (C)	imefram e: Post- construction (P)	Responsible Party	Compliance Status	Q4	Quarter Mitigation Completed
Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	31	- MMRP- 4 AQ- C CNST-			Implement Dust Control Measures: The contractor will limit all vehicle speeds on unpaved roads to 15 mph.	Program-wide		c	τ 	VTA/C	ĸ	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Samta Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: No unpaved roads were utilized in Q4 2023. Therefore, this measure will be implemented in future quarters.	
Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	32	- MMRP- A AQ- C CNST-			Implement Dust Control Measures: The contractor will complete all paving operations on roadways, driveways, and sidewalks as soon as possible. The contractor will also lay building pads as soon as possible after grading, unless seeding or a soil binder is used.	Program-wide		c		VTA/C	КС	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: There were no paving operations in Q4 2023. Therefore this measure will be implemented in future quarters.	
Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	33	- MMRP- A AQ- C CNST-			Implement Dust Control Measures: The contractor will post a publicly visible sign that includes the telephone number and name of the person to contact at VTA regarding dust complaints. This person will respond and take corrective action within 48 hours. The BAAQMD phone number will also be visible to ensure compliance with applicable regulations.	Program-wide		c		VTA/C	КС	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Sharta Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: No publicly vible signs have been posted as no construction activities took place in Q4 2023. This measure will be applied in future quarters as necessary.	

Valley Transportation							al Commitments Record								
Authority					Mitiga	ition Monitoring & Re	porting Program								
			м	ARP Code	ŧ					I	Implementa	tion		2023	
Env Doc Chapter / Mitigation Topic	Environme ntal Document Chapter	Mitigation Topic	Chron o #	Measure	#	Summary	Mitigation Measure	Location	Timeframe: Design (D)	Timeframe: Construction (C)	imeframe: Post-	Responsible Party	Compliance Status	Q4	Quarter Mitigation Completed
Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	34	- MMRP- / AQ- (CNST-	A- Vol 09 RC		Implement Dust Control Measures: The contractor will suspend all excavation, grading, and/or demolition activities when average wind speeds exceed 20 mph.	Program-wide		c		VTA/C	ĸ	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: No construction activities took place in Q4 2023. This measure will be applied in future quarters as necessary.	
Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	35	- MMRP- / AQ- : CNST-	4- Vol 10 RC		Implement Dust Control Measures: The contractor will install windbreaks (e.g., fences with screening) on the windward side(s) of disturbed construction areas where feasible. Windbreaks should have 50 percent (maximum) air porosity.	; Program-wide		c		VTA/C	κ	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: No construction activities took place in Q4 2023. This measure will be applied in future quarters as necessary.	
Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	36	- MMRP- / AQ- CNST-			Implement Dust Control Measures: The contractor will plant vegetative ground cover (e.g., fast-germinating native grass seed) in disturbed areas as soon as possible and water appropriately until vegetation is established.	Program-wide		c		VTA/C	к	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: No construction activities took place in Q4 2023. This measure will be applied in future quarters as necessary.	

Valley Transportation Authority							Commitments Record								
Authority				M	itigation Monitorin	ig & Rep	orting Program								
			M	ARP Code						Im	plementa	tion		2023	
	Environme			1	-Tment									Q4	Quarter
Env Doc Chapter / Mitigation Topic	ntal Document Chapter	Mitigation Topic	Chron o #	Measure #	Source Docu Summar		Mitigation Measure	Location	Timeframe: Design (D)	Timeframe: Construction (C	Timeframe: Post construction (P)	Responsible Party	Co mpliance Status		Mitigation Completed
Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	37	- MMRP- A- AQ- CNST-	Vol-1, Phase Ground- ROD Activiti		Implement Dust Control Measures: The contractor will limit the simultaneous occurrence of excavation, grading, and ground-disturbing construction activities in the same area. The contractor will phase activities to reduce the amount of disturbed surfaces at any one time.	Program-wide		c		VTA/C	ĸ	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: No construction activities took place in Q4 2023. This measure will be applied in future quarters as necessary.	
Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	38	- MMRP- A- AQ- 13 CNST-	Vol-1, Use Constr ROD Entrances,		Implement Dust Control Measures: All trucks and equipment, including their tires, will use designated construction entrances/exits that have been constructed with rock, rumble strips, or other features to remove dirt from tires.	Program-wide		c		VTA/C	КС	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: No construction activities took place in Q4 2023. This measure will be applied in future quarters as necessary.	
Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	39	- MMRP- A- AQ- 14 CNST-	Vol-1, Install Sedim ROD Erosion Contro		Implement Dust Control Measures: The contractor will install sediment and erosion control devices on sites with a slope greater than 1 percent to prevent silt runoff from entering public roadways.	Program-wide		c		VTA/C	ю	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: No construction activities took place in Q4 2023, therefore no erosion or sediment controls were installed. This measure will be applied in future quarters as necessary.	

Valley Transportation Authority						hase II - Environment ition Monitoring & R	al Commitments Record porting Program								
	_		M	VIRP Code						Im	plementat	ion		2023	_
Env Doc Chapter / Mitigation Topic	Environme ntal Document Chapter	Mitigation Topic	Chron o #	Measure	e#		Mitigation Measure	Location	Tim eframe: Design (D)	Timeframe: Construction (C)	Fimeframe: Post- construction (P)	Responsible Party	Co mpliance Status		Quarter Mitigation Completed
Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	40	- MMRP- AQ- CNST-	A- Vo 15 RC		Implement Dust Control Measures: The contractor will include the following control measures as consistent with BAAQMD permitting requirements during the operation of concrete batch plants: or The construction contractor will ensure that the outlet PM10 grain loading for the baghouse will not exceed OL grains per dry standard cubic foot. or The construction contractor will properly maintain the baghouse and keep the baghouse in good operating condition at all times. The construction contractor will equip the baghouse in a device for measuring the pressure drop across the baghouse. O The construction contractor will on discharge an air contaminant into the atmosphere for a period or periods aggregating more than 3 minutes in any hour, which is as dark or darker than a fingelman 1.0. o The construction contractor will abate stockpiles, conveyors and unpaved roads as necessary with water sprays to maintain compliance with BAAQMD rules and regulations.	Program-wide		c		VTA/C	к	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, as General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: For Q4 2023, construction or operation of concrete batch plants has not commenced, therefore this measure will be implemented in future quarters.	
Air Quality/ Use U.S. Environmental Protection Agency (EPA) Tier 4 or cleaner engines		Use U.S. Environmental Protection Agency (EPA) Tier 4 or cleaner engines	41	- MMRP- AQ- CNST-B	- Vo			Program-wide		c		VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: This mitigation measure was included in the CP2 Conformed set under Vol 1 General Requirements, Section 01 57 00 Temporary Controls. No construction activities took place in Q4 2023. This measure will be enforced during heavy construction activities.	
Air Quality/ Maintain Construction Equipment	Air Quality	Maintain Construction Equipment	42	- MMRP- AQ- CNST-C	- Vo RC		Maintain Construction Equipment: The contractor will maintain and properly tune all construction equipment in accordance with the manufacturer's specifications. A certified mechanic will check all equipment to determine proper running condition prior to operation.	Program-wide		c		VTA/C	КС	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: No construction activities took place in Q4 2023. This measure will be applied in future quarters as necessary.	

Valley Transportation Authority						ase II - Environmenta tion Monitoring & Re	al Commitments Record								
													1	2023	
	Environme		M	WRP Code	ment	>					mplementa	tion		Q4	
Env Doc Chapter / Mitigation Topic	ntal Document Chapter	Mitigation Topic	Chror o #	¹ Measure	# Source Docu	Summar	Mitigation Measure	Location	Tim eframe: Design (D)	Timeframe: Construction (C)	Fimeframe: Post- construction (P)	Responsible Party	Compliance Status		Quarter Mitigation Completed
Air Quality/ Minimize Idling Times	Air Quality	Minimize Idling Times	43	- MMRP- AQ- CNST- D	- Vol- ROE		Minimize Idling Times: The contractor will ensure that all idling times are minimized, either by shutting equipment off when not in use or by reducing the maximum idling time to 5 minutes (as required by california Airborn Toxic Control Measures, Title 13, Section 2485 of the California Code of Regulations). The contractor will provide clear signage for construction workers at all access points.	Program-wide		c		VTA/C	КС	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: No construction activities took place in Q4 2023. This measure will be applied in future quarters as necessary.	
Air Quality/ Use Equipment Meeting ARB Certification Standards	Air Quality	Use Equipment Meeting ARB Certification Standards	44	- MMRP- AQ- CNST-E	- Vol- ROE		Use Equipment Meeting ARB Certification Standards: All contractors will use equipment that meets ARB's most recent certification standard for off-road heavy-duty diesel engines.	Program-wide		с		VTA/C	ιC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Sharta Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: No construction activities took place in Q4 2023. This measure will be applied in future quarters as necessary.	
Air Quality/ Ensure Heavy-Duty Diesel Trucks Will Comply with EPA Emissions Standards	Air Quality	Ensure Heavy-Duty Diesel Trucks Will Comply with EPA Emissions Standards	45	- MMRP- AQ- CNST-F	- Vol-: ROE		Ensure Heavy-Duty Diesel Trucks Will Comply with EPA Emissions Standards: VTA and contractors will ensure that construction contracts stipulate that all on-road, heavy-duty diesel trucks with a gross vehicle weight rating of 19,500 pounds or greater will comply with EPA 2007 on-road emission standards for PM10 and NOX (10.01 and 0.20 gram per brake horsepower hour, respectively). These PM10 and NOX standards were phased in through the 2007 and 0.100 model years on a percentage-of-sale basis (50 percent of sales from 2007 to 2008 and 100 percent of sales in 2010). This mitigation measure assumes that all on-road, heavy-duty disel trucks will be model year 2010 and newer and compliant with EPA 2007 on- road emission standards.	Program-wide		c		VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: No construction activities took place in Q4 2023. This measure will be applied in future quarters as necessary.	

Valley Transportation Authority						ase II - Environment tion Monitoring & Re	al Commitments Record								
				VIRP Code	J						Implements	1	1	2023	
Env Doc Chapter / Mitigation Topic	Environme ntal	Mitigation Topic	MI	VIRP Code	Document	A ar	Mitigation Measure	Location		10	Implementa	tion		Q4	Quarter Mitigation
Liv boc chapter / whigh addit ropic	Document Chapter	initigation ropic	Chror o #	¹ Measure	e e	m _s	חוועפטעיר ארפטער	Location	Timeframe Design (D)	Timeframe:	runstruction construction	Responsibl	Compliance Status		Completed
Air Quality/ Use Low-Sulfur Fuel	Air Quality	Use Low-Sulfur Fuel	46	- MMRP- AQ- CNST- G	- Vol- ROI		Use Low-Sulfur Fuel: The contractor will use low-sulfur fuel (diesel with 15 parts per million or less) in all construction equipment.	Program-wide		c		VTA/C	KC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GCI has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: No construction activities took place in Q4 2023. This measure will be applied in future quarters as necessary.	
Air Quality/ Locate Construction Areas Away from Sensitive Receptors	Air Quality	Locate Construction Areas Away from Sensitive Receptors	47	- MMRP- AQ- CNST- H	- Vol- ROI		Locate Construction Areas Away from Sensitive Receptors: The contractor will locate all construction equipment and staging areas away from sensitive receptors and fresh-air intake vents to buildings and air conditioners, where feasible.	Program-wide		c		VTA/C	КС	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Shata Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEI, has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: No construction activities took place in Q4 2023. This measure will be applied in future quarters as necessary.	
Air Quality/ Use Low-Volatile Organic Compound (VOC) Coatings	Air Quality	Use Low-Volatile Organic Compound (VOC) Coatings	48	- MMRP- AQ- CNST-I	- Vol- ROI		Use Low-Volatile Organic Compound (VOC) Coatings: All contractors will use low-VOC (i.e., ROG) coatings that are beyond BAAQMD requirements (i.e., Regulation 8, Rule 3: Architectural Coatings (VOC content is limited to 100 grams per liter for flat coating and 150 grams per liter for non-flat coating)).	Program-wide		c		VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Shanta Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: This mitigation measure was included in the CP2 Conformed set under Vol 1 General Requirements, Section 01 35 74 Sustainability Requirements. No construction activities took place in Q4 2023. This measure will be applied in future quarters as necessary.	

Transportation								Commitments Record orting Program								
			м	/IRP Code		<u>ب</u>					Impleme	ntation			2023	
Env Doc Chapter / Mitigation Topic	Environme ntal Document Chapter	Mitigation Topic	Chron o #	Measur	re #	Source Documer	Summary	Mitigation Measure	Location	Timeframe: Design (D)	Timeframe: Construction (C) imeframe: Post-	construction (P) Responsible	Party	Compliance Status	Q4	Quar Mitiga Comple
iological Resources and Wetlands/ void Nesting Bird Season	Biological Resources and Wetlands	Avoid Nesting Bird Season	49	- MMRP- BIO- CNST-A		ol-1, Ave		Avoid Nesting Bird Season: To the extent feasible, the contractor will schedule all construction (particularly tree removal and pruning) activities to avoid the bird nesting season (January 1–Augus 21). If such activities are schedule to take place outside the nesting season, the contractor will avoid all effects on nesting birds, including raptors, protected under the Migratory Bird Treath Act (MBTA) and California Bish and Game Code. The nesting season for most birds in Santa Clara County typically extends from February 1 through August 31, although some birds (e.g., raptors and hummingbirds) may nest as early as January 1 if a period of favorable weather persists.	Program-wide		c	VT	TA/C	κ	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: No construction activities took place in Q4 2023. This measure will be applied in future quarters as necessary.	
ological Resources and Wetlands/ nduct construction/Predisturbance riveys for Nesting Birds	Biological Resources and Wetlands	Conduct Preconstruction/Predistur bance Surveys for Nesting Birds	50	- MMRP- BIO- CNST-B	-	ROD rba	Conduct nstruction/Predistu	Conduct Preconstruction/Predisturbance Surveys for Nesting Birds: If it is not possible to schedule construction activities that involve tree removal or pruning between September 1 and January 1, then a qualified biologist will conduct preconstruction/predisturbance surveys for nesting birds to ensure that no nests will be disturbed during construction activities. These surveys will be conducted no more than 48 hours prior to the initiation of construction activities each survey, a qualified biologist will inspect all potential nesting halatist (seg. trees, shrubs, grasslands, and buildings) in accessible areas within 300 feet of impact areas for raptor nests and within 100 feet of impact areas for nests of non-raptors. If an active nest (i.e., a nest with eggs or young, or any completed raptor nest) is found sufficiently close to work areas to be disturbed by these activities, the biologist, in consultation with the California Department of Fish and Wildlife (CDFW), will determine the extent of a disturbance-free buffer zone to be established around the nest (typically 300 feet for raptors and 50 to 100 feet for other species), to ensure that no nests of species protected by the MBTA and California Fish and Game Code will be disturbed as a result of construction activities.	Program-wide	D	c	Vī	FA/C	к	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3 Anewhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: No construction activities took place in Q4 2023. This measure will be applied in future quarters as necessary.	
ological Resources and Wetlands/ nduct Preconstruction Surveys for ossting Bat and Implement otective Measures- Trees	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures-Trees	51	- MMRP- BIO- CNST			uct Preconstruction	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Trees: If tree removal or trimming cannot be conducted between September 15 and October 30, qualified biologists will examine trees for suitable bat-roosting habitat before tree removal or trimming. The biologists will identify high-quality habitat features (e.g., large tree cavities, basal hollows, loose or peeling bark, larger snags, palm trees with intact thatch) and search the area around hese features for bats and bat signs (e.g., guano, culled insect parts, staining). Riparian woodland, orchards, and stands of mature broadleaf trees are considered potential habitat for oildary folgee-rooting bat species. Because signs of bat use are not easily found, and trees cannot be completely surveyed for bat roosty. VTA will implement the protective measures listed below (<i>in MMRP-BIO-CNST-C-02 through C-06</i>) for trees containing high-quality habitat features.	Program-wide	D	c	VT	ra/c	к	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Snata Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&EI) packages. For CP-2 Tunnel and Trackwork: Construction activities in Q4 2023 included the removal of two Washington fan palms (<i>Washingtonic robusto</i>) at the Newhall Maintenance Yard. A qualified biologist performed a survey on 10/31/2023 and inspected the area for signs of bat use and high-quality habitat. No signs of bats, bat use, or high-quality habitat was observed within the trees or in the surrounding area, therefore tree removal was cleared to proceed. Biologist report can be found on the project sharepoint in folder 051-068_MMRP_BIO-CNST-C01- C18 Bats.	

Valley Transportation					BSV	Phase II - Environmenta	I Commitments Record								
Authority					Miti	gation Monitoring & Re	porting Program								
			м	VIRP Code		t				Im	plementati	ion	I	2023	
Env Doc Chapter / Mitigation Topic	Environme ntal Document Chapter	Mitigation Topic	Chror o #	Measur	e#	Source Docum Summary	Mitigation Measure	Location	Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post- construction (P)	Responsible Party	Compliance Status	Q4	Quarter Mitigation Completed
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Trees	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and implement Protectiv Measures- Trees	e 52	- MMRP- BIO- CNST		vol-1, Roosting Trees Between April 1 and September 15	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Trees: The contractor will not remove or disturb trees providing bat roosting habitat between April 1 and September 15 (the materity period) to avoid effects on pregnant females and active maternity roosts (whether colonial or solitary).	Program-wide	D	c		VTA/C	łC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: Two Washington fan palms (<i>Washingtonia robusta</i>) were scheduled for removal at the Newhall Maintenance Yard in Q4 2023. A qualified biologist performed a survey on 10/31/2023 and inspected the area for signs of bat use and high-quality habitat. No signs of bats, bat use, or high-quality habitat was observed within the trees or in the surrounding area, therefore tree removal was cleared to proceed. Biologist report can be found on the project sharepoint in folder 051-068_MMRP_BIO-CNST-C01-C18 Bats.	
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Trees	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and implement Protectiv Measures- Trees	52	- MMRP- BIO- CNST		/cl-1, Trees between ROD September 15 and October 30	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Trees: The contractor will limit the removal of trees that provide bat roosting habitat to between September 13 and October 30, which corresponds to when buts have not yet entered torpor or would be caring for nonvolant young (i.e., young that are unable to fly).	Program-wide	D	c		VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: Two Washington fan palms (<i>Washingtonic robusta</i>) were scheduled for removal at the Newhall Maintenance Yard in Q4 2023. A qualified biologist performed a survey on 10/31/2023 and inspected the area for signs of bat was and high-quality habitat. No signs of bats, but use, or high-quality habitat was observed within the trees or in the surrounding area, therefore tree removal was cleared to proceed. Biologist report can be found on the project sharepoint in folder 051-068_MMRP_BIO-CNST-C01-C18 Bats.	
Siological Resources and Wetlands/ Conduct Preconstruction Surveys for toosting Bat and Implement Protective Measures- Trees	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roasting Bat and Implement Protectiv Measures- Trees	54	- MMRP- BIO- CNST		/ol-1, ROD Remove Trees in Pieces	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Trees: The contractor will remove trees in pieces rather than felling an entire tree.	Program-wide	D	с		VTA/C	к	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: Two Washington fan palms (<i>Washingtonia robusta</i>) were scheduled for removal at the Newhall Maintenance Yard in Q4 2023. Trees were felled in pieces and removed from the site. Biologist report can be found on the project sharepoint in folder 051-068_MMRP_BIO-CNST-C01-C18 Bats.	

Valley Transportation Authority							e II - Environmenta n Monitoring & Re	l Commitments Record								
					-		,								2023	
			MN	IRP Code	e	ent					Imp	olementat	ion		Q4	-
Env Doc Chapter / Mitigation Topic	Environme ntal Document Chapter	Mitigation Topic	Chron o #	Measu	ıre #	Source Docum	Summary	Mitigation Measure	Location	Timeframe: Design (D)	Timeframe: Construction (C)	imeframe: Post- onstruction (P)	Responsible Party	Compliance Status	<u>u</u> a	Quarter Mitigation Completed
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Trees	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Trees	55	- MMRP BIO- CNST		Vol-1, ROD	Ensure Maternity Roost is Undisturbed until September 15	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Trees: If a maternity roost is found, whether solitary or colonial, the contractor will ensure that roost remains undisturbed until September 15 or until a qualified biologist has determined the roost is no longer active.	Program-wide	D	c	<u> </u>	VTA/C	кс	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GE/L has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: Two Washington fan palms (<i>Washingtonia robusta</i>) were scheduled for removal at the Newhall Maintenance Yard in Q4 2023. A qualified biologist performed a survey on 10/31/2023 and inspected the area for signs of bat use and high-quality habitat. No signs of bats, bat use, or high-quality habitat was observed within the trees or in the surrounding area, therefore tree removal was cleared to proceed. Biologist report can be found on the project sharepoint in folder 051-068_MMRP_BIO-CNST-C01-C18 Bats.	
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Trees	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Trees	56	- MMRP BIO- CNST		Vol-1, ROD	Biologists to Monitor Tree Removal	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Trees: If avoidance of non-maternity roost trees is not possible, and tree removal or trimming must occur between October 30 and August 31, qualified biologists will monitor tree trimming/removal of the habitat. If possible, tree trimming or removals should occur in the late afternoon or evening when it is closer to the time that bats would normally arouse. Prior to trimming or moval of the spotiat. If possible, tree trimming habitat, the contractor will shake each tree gently and allow several minutes to pass before felling trees or removing limbs to allow bats time to arouse and leaves the tree. Biologists should search downed vegetation for deal and injured bats. The contractor will report the presence of dead or injured bats that are species of special concern to CDFW. The biologist will prepare a biological monitoring report, which will be provided to VTA and CDFW.	Program-wide	D	c		VTA/C	Ю	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: Two Washington fan palms (<i>Washingtonia robusta</i>) were scheduled for removal at the Newhall Maintenance Yard in Q4 2023. A qualified biologist performed a survey on 10/31/2023 and inspected the area for signs of bat use and high-quality habitat. No signs of bats, bau use, or high-quality habitat was observed within the trees or in the surrounding area, therefore Biologist report can be found on the project sharepoint in folder 051- 068_MMRP_BIO-CNST-C01-C18 Bats.	
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	57	- MMRP BIO- CNST		Vol-1, ROD	Conduct Roosting Bat Surveys at Buildings	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings: Prior to the building removal or demoliton, qualified builogists will conduct daytime surveys to assess the building (Stor potential bat roosting habitat, and to look for bats and bat sign. Qualified biologists will have knowledge of the natural history of the species that could occur and sufficient experience determining bat occupancy in buildings and bat survey techniques. The biologists will examine both the inside and outside of the buildings for potential roosting habitat, as well as routes of entry to the buildings. The biologists will note and map on drawings of the buildings the locations of any roosting bats, signs of bat use, and entry and ext points. The biologists will also photograph roost sites as feasible. The habitat assessment surveys should be conducted as fin advance of demolition as possible to allow time for planning and coordinating with CDFW, should bats be found. Depending on the results of the habitat assessment, VTA and its representatives will take the following steps (MMRP-BIO-CNST-C-08 through C-18).	Program-wide	D	c		VTA/C	łC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineenig Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (FS&E) packages. For CP-2 Tunnel and Trackwork: This mitigation measure was included in the CP2 Conformed set under Vol 1 General Requirements, Section 01 35 71 Biological Resources Requirements. No buildings were removed or demolished in Q4 2023, therefore this measure will be implemented in future quarters.	

Valley Transportation					BS	V Phas	e II - Environmenta	I Commitments Record								
Authority					Mi	tigatio	on Monitoring & Re	porting Program								
			MN	IRP Cod	e	Ŧ					Imj	plementa	tion		2023	
	Environme					nem	2						-	-	Q4	Quarter
Env Doc Chapter / Mitigation Topic	ntal Document Chapter	Mitigation Topic	Chron o #	Measu	ıre #	Source Docu	Summa	Mitigation Measure	Location	Tim eframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post- construction (P)	Responsible Party	Compliance Status		Mitigation Completed
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	Resources	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	58	- MMRP BIO- CNST		Vol-1, ROD	Conduct Roosting Bat Surveys Within 24 Hours of Building Demolition	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings: If the building(s) can be adequately assessed (i.e., all areas of the building can be examined) and no habitat of imitted habitat for roosting batis a present and no signs of bat use are present, qualified biologists will conduct a preconstruction survey of the interior and exterior of the building(s) with 12 hours of demolition. If bat are found roosting during the preconstruction survey, biologists will contact CDFW for direction on how to proceed.	Program-wide	D	c		VTA/C	ĩC	No buildings were removed or demolished in Q4 2023, therefore this measure will be implemented in future quarters.	
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and implement Protective Measures- Buildings	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	59	- MMRP BIO- CNST		Vol-1, ROD	Conduct Roosting Bat Surveys Within 24 Hours of Building Demolition	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings: If moderate or high potential habitat is present but there are no signs of bat use, VTA will implement measures under the guidance of a qualified bat biologist to exclude bats from using the building(s) as a roost site, such as sealing off entry points. Prior to installing exclusion measures, underlish biologists will conduct be building(s) on source that no bats are present. Additionally, biologists will conduct a preconstruction survey of the interior and exterior of the building(s) within 24 hours of demolition to confirm that no bats are present. If bats are found rooting during the preconstruction survey, biologists will contact CDFW for direction on how to proceed.	Program-wide	D	c		VTA/C	IC	No buildings were removed or demolished in Q4 2023, therefore this measure will be implemented in future quarters.	
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	Resources and	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	60	- MMRP BIO- CNST	- C- 10	Vol-1, ROD	Implement Roosting Bat Protective Measures	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings: If moderate or high potential habitat is present and bats or bat sign are observed, or if exclusion measures are not installed as described above, or the building(s) provides valiable habitat but could not be adequately assessed, VTA will implement the following protective measures (MMRP-BIO-CNST-C-11 through C-13).	Program-wide	D	c		VTA/C	ic	No buildings were removed or demolished in Q4 2023, therefore this measure will be implemented in future quarters.	

Valley Transportation								I Commitments Record								
Authority					Mit	tigatio	on Monitoring & Rej	porting Program								
			M	WRP Cod	e	ŧ					Imp	olementat	ion		2023	
Env Doc Chapter / Mitigation Topic	Environme ntal Document Chapter	Mitigation Topic	Chron o #	¹ Measu	ure #	Source Docume	Summary	Mitigation Measure	Location	Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post- construction (P)	Responsible Party	Compliance Status	Q4	Quarter Mitigation Completed
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	Biological Resources and Wetlands	Surveys for Roosting Bat and Implement Protective	61	- MMRP BIO- CNST		Vol-1, ROD	Conduct Follow-Up Roosting Bat Surveys at Buildings	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings: Biologists will conduct follow-up surveys to determine if bats are still present. If species identification is required by CDFW, biologists will use night vision goggles and active acoustic monitoring using full spectrum bat detectors during the surveys. VTA will determine a survey plan (number, timing, and type of surveys) in coordination with CDFW.	Program-wide	D	c		VTA/C	ĸ	No buildings were removed or demolished in Q4 2023, therefore this measure will be implemented in future quarters.	
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	Biological Resources and Wetlands	and Implement Protective	62	- MMRP BIO- CNST	- C- 12	Vol-1, ROD	Install Bat Roosting Exclusion Measures	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings: Based on the timing of demolition, the extent of bat sign or occupied habitat, and the species present (if determined), the qualified biologists will work with VTA and CDFW to develop a plan to discourage or exclude bat use prior to demolition. The plan may include installing exclusion measures or using light or other means to deter bats from using the building to roost.	Program-wide	D	c		VTA/C	KC	No buildings were removed or demolished in Q4 2023, therefore this measure will be implemented in future quarters.	
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	Biological Resources and Wetlands	and Implement Protective	63	- MMRP BIO- CNST		Vol-1, ROD	Conduct Roosting Bat Surveys Within 24 Hours of Building Demolition	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings: Biologists will conduct a preconstruction survey of the interior and exterior of the building within 24 hours of demolition.	Program-wide	D	c		VTA/C	κ	No buildings were removed or demolished in Q4 2023, therefore this measure will be implemented in future quarters.	

Valley Transportation					BSV	Phas	e II - Environmenta	I Commitments Record								
Authority					Mit	igatio	n Monitoring & Rej	porting Program								
			MN	1RP Code		Ŧ					Imp	plementa	tion		2023	
	Environme					men	2						r	r	Q4	Quarter
Env Doc Chapter / Mitigation Topic	ntal Document Chapter	Mitigation Topic	Chron o #	Measu	re #	Source Docu	Summa	Mitigation Measure	Location	Tim eframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post- construction (P)	Responsible Party	Compliance Status		Mitigation Completed
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	Resources and	Conduct Preconstruction Surveys for Roosting Bat and implement Protective Measures- Buildings	64	- MMRP- BIO- CNST		Vol-1, ROD	Implement Roosting Bat Protective Measures	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings: Depending on the species of bats present, size of the bat roost, and timing of the demoliton, additional protective measures may be necessary. VTA will determine appropriate measures in coordination with CDFW. These measures may include those listed below (MMRP- BIO-CNST-C-15 through C-17).	Program-wide	D	c		VTA/C	ιc	No buildings were removed or demolished in Q4 2023, therefore this measure will be implemented in future quarters.	
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	65	- MMRP- BIO- CNST		Vol-1, ROD	No Building Demolition While Bats Are Present	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings: To avoid effects on maternity colonies or hibernating bats, the contractor will not demolish a building while bats are present, generally between April 1 and September 15 (maternity season) and from October 30 to March 1 (hibernation).	Program-wide	D	c		VTA/C	ic	No buildings were removed or demolished in Q4 2023, therefore this measure will be implemented in future quarters.	
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and implement Protective Measures- Buildings	66	- MMRP- BIO- CNST	- C- 16	Vol-1, ROD	Only Remove Roosting Building Habitat Prior to Hibernation	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings: The contractor will remove only roosting habitat following the maternity season and prior to hibernation, generally between September 15 and October 30, unless the contractor first installs exclusionary devices (as described below). The contractor may use other measures, such as using lights to deter bat roosting, if developed in coordination with and approved by CDFW.	Program-wide	D	c		VTA/C	ĸ	No buildings were removed or demolished in Q4 2023, therefore this measure will be implemented in future quarters.	

Valley Transportation								I Commitments Record porting Program								
								porting rooptani			1	1			2023	
			м	/IRP Code		ž					h	nplementa	tion			
Env Doc Chapter / Mitigation Topic	Environme ntal Document Chapter	Mitigation Topic	Chron o #	Measur	re #	Source Docume Source Source		Mitigation Measure	Location	Tim eframe: Design (D)	Timeframe: Construction (C)	limeframe: Post- construction (P)	Responsible Party	Compliance Status	Q4	Quarter Mitigation Completed
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	67	- MMRP- BIO- CNST		ol-1, Install Roo D Exclusion		Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings: The contractor will install exclusion devices before the maternity season and prior to hibernation. generally from March 1–30 or spetuhene 15–October 20 perclude bats from occupying a roost site during demolition. Exclusionary devices will only be installed by or under the supervision of an experienced bat biologist.		<u>e</u> D	c	F.0	VTA/C	iС	No buildings were removed or demolished in Q4 2023, therefore this measure will be implemented in future quarters.	
iological Resources and Wetlands/ onduct Preconstruction Surveys for oosting Bat and implement rotective Measures- Buildings	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	68	- MMRP- BIO- CNST)-1, Provide Com Mitigation fo Bat Ha	r Roosting	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings: CDFW may require compensatory mitigation for the loss of roosting habitat depending on the species present and size of the bat roost. Compensation, if required, will be determined in consultation with CDFW, and may include construction and monitoring of suitable replacement habitat on or near the BART Extension site.	Program-wid	2 D	c		VTA/C	IC	No buildings were removed or demolished in Q4 2023, therefore this measure will be implemented in future quarters.	
Nological Resources and Wetlands/ rotect Riparian Habitat	Biological Resources and Wetlands	Protect Riparian Habitat	69	- MMRP- BIO- CNST- D		ol-1, OD Protect Ripari	ian Habitat	Protect Riparian Habitat: VTA will design all BART Extension facilities to avoid temporary and protect Riparian Habitat: VTA will signify as environmentally sensitive areas on plans all riparian forest areas identified along the Guadiupe River and Los Gatos Creek and will ensure such habitat is marked with protective orange forcing or flagging during construction to avoid disturbance or accidental intrusion by workers or equipment. Contractors will not use night lighting for construction activities and staging in the riparian area.	Guadalupe River ; Los Gatos creek		с		VTA/C	IС	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, as General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: No construction occurred near Guadalupe River and Los Gatos Creek in Q4 2023, therefore this measure will be implemented in future quarters.	
Siological Resources and Wetlands/ Conduct Preconstruction Tricolored Blackbird Nesting Surveys and Determine Appropriate Action	Biological Resources and Wetlands	Conduct Preconstruction Tricolored Blackbird Nesting Surveys and Determine Appropriate Action	70	- MMRP- BIO- CNST-E		ol-1, Conduct Prec OD Nesting S	Blackbird	Conduct Preconstruction Tricolored Blackbird Nesting Surveys and Determine Appropriate Action: There are and have been on known tricolored blackbird nesting colonies in the BART Extension area within the last 5 years. However, to avoid direct effects of construction activities on potential nesting tricolored blackbird colonies, VTA will implement the following procedures. This mitigation measure incorporates survey, avoidance, and minimization guidelines taken directly from Condition 17 of the Santa Clara Valley Habitat Plan (SCVHP) (Santa Clara County 2012). A qualified biologist will conduct a field investigation to identify and map potential nesting substrate. Nesting substrate generally includes flooded, thorny, or spiny vegetation (e.g., cattalis, burushes, willows, blackberries, thisties, or nettles). If potential nesting substrate. Nesting substrate generally includes flooded, thorny, or spiny vegetation (e.g., cattalis, burushes, will explicit and strate sub avoid all areas within a 250-foot buffer around the potential nesting habitat, and biologists will conduct appropriate surveys. If VTA chooses not avoid the potential nesting habitat and the 250-foot buffer, biologists will conduct additional nesting surveys.	N/A	N/A	N/A	N/A	N/A	N/A	N/A - See 2018 for Documentation	N/A

Valley Transportation							e II - Environmenta n Monitoring & Re	I Commitments Record								
Authority						tigatio	n wonitoring & Re	porting Program	I							
	-		м	MRP Code	2	lent					Im	plementa	tion		2023 Q4	
Env Doc Chapter / Mitigation Topic	Environme ntal Document Chapter	Mitigation Topic	Chror o #	י Measu	re #	Source Docum	Summary	Mitigation Measure	Location	Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post- construction (P)	Responsible Party	Compliance Status	ve	Quarter Mitigation Completed
Biological Resources and Wetlands/ Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility)	Biological Resources and Wetlands	Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility)	71	- MMRP BIO- CNST-	- F- 01	Vol-1, ROD	Implement Burrowing Owl Measures	Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility): To avoid or minimize direct effects of construction activities on burrowing own, VTA will implement the procedures described below (MMRP-BIO-CNST-F- 02 to F-15). This mitigation measure incorporates survey, avoidance, and minimization guidelines taken directly from Condition 15 of the SCVHP (SCVHA 2012).	Newhall Maintenance Facility	D	с	-	VTA/C	KC	This is a summary mitigation measure; please refer to the following measures MMRP-8H0-CNST-P-02 to F-15 related to burrowing owls for the breeding and non-breeding season, respectively. Note that these measures only apply at the Newhall Maintenance Facility, which is the only area on the project with burrowing owl habitat.	
Biological Resources and Wetlands/ Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility)	Biological Resources and Wetlands	Conduct Preconstruction Burrowing Ow Survey and Determine Appropriate Action (for Newhall Maintenance Facility)	72	- MMRP BIO- CNST-		Vol-1, ROD	Conduct Preconstruction Burrowing Owl Surveys	Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility): Prior to any ground disturbance related to BART Extension Alternative activities, a qualified biologist will conduct preconstruction surveys in all suitable habitat areas as distentified by SCHN. The purpose of the preconstruction surveys is to document the presence or absence of burrowing owls on the construction site, particularly in areas within 250 feet of construction activity. To maximize the likelihood of detecting owls, the preconstruction survey will bagin 1 hour before sunsise and continue until 2 hours after survise (3 hours tota) or begin 2 hours before sunsite and continue until 2 hours after survise (3 hours tota) or begin 2 hours before sunset and continue until 1 hour after sunset. Additional time may be required a large construction sites. The biologist will conduct a minimum of two surveys; (I owls are detected on the first survey, a second survey is not needed). The biologist will conduct a minimum of two surveys; (I owls are detected on the first survey, a second survey is not needed). The biologist will conduct a minimum of two surveys will conclude no more than 2 calendar days prior to construction. Therefore, the project proponent must begin surveys and construction. This preliminary survey way count as the first of the wore contracting that may occur of burrowing owls are found, VTA may also conduct a preliminary survey way to to 4 days before construction. This preliminary survey may count as the first of the two required surveys as long as the second survey concludes no more than 2 calendar days in down of VTA may also conduct as preliminary survey may count as the first of the two required surveys as long as the second survey concludes no more than 2 calendar days in down of VTA may also conduct as the first of the two required surveys as long as the second survey concludes no more than 2 calendar days in down of the may count as the first of the twore quired surveys as l	Newhall Maintenance Facility	D	c		VTA/C	кс	Geotechnical boring commenced in Q4 2023 at the West Portal location. Burrowing owl surveys were conducted on 11/10 and 11/13. No burrowing owls or evidence of recent owl occupation at burrows were detected within the survey area.	
Biological Resources and Wetlands/ Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility): Avoidance Measures: Breeding Season (February 1–August 31)	Biological Resources and Wetlands	Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility): Avoidance Facility): Avoidance Measures: Breeding Season (February 1–August 31)	73	- MMRP BIO- CNST-	- F- 03	Vol-1, ROD	Avoid Burrowing Owls During Breeding Season	Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility): Avoidance Measures: Breeding Season (February 1-August 31) – In order to allow covered activities to go forward in burrowing owl habitat, VTA will employ avoidance measures described below to ensure that direct take does not occur. If evidence of burrowing owls is found during the breeding season (February 1-August 31), VTA will avoid all nest sites that could be disturbed by construction during the remainder of the breeding season or while the nest is courcied by adults or young (occuration includes individuals or family groups foraging on or near the site following fledging). Avoidance will include establishment of a 250-foot non-disturbance buffer zone around nests. Construction may occur outside of the 250-foot non-disturbance buffer zone.	Newhall Maintenance Facility	D	c		VTA/C	КС	Geotechnical boring commenced in Q4 2023 at the West Portal location. Burrowing owl surveys were conducted on 11/10 and 11/13. No burrowing owls or evidence of recent owl occupation at burrows were detected within the survey area.	
Biological Resources and Wetlands/ Conduct Preconstruction Burrowing Owi Surveys and Determine Appropriate Action (for Newhall Maintenance Facility): Avoidance Measures: Breeding Season (February 1–August 31)	Biological Resources and Wetlands	Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility): Avoidance Measures: Breeding Season (February 1–August 31)	74	- MMRP BIO- CNST-	- F- 04	Vol-1, ROD	Construction Inside 250- foot Owl Buffer	Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action - Avoidance Measures: Breeding Season (February 1-August 31) - Construction may take place inside of the 250-foot non-disturbance buffer during the breeding season if the following occurs: • The nest is not disturbed, and • VTA develops an avoidance, minimization, and monitoring plan that will be reviewed by COFW, USEVRS, and SCVHA prior to construction based on the following criteria (MMRP-BIO- CNST-F-05 through F-09):	Newhall Maintenance Facility	D	с		VTA/C	IС	Geotechnical boring commenced in Q4 2023 at the West Portal location. Burrowing owl surveys were conducted on 11/10 and 11/13. No burrowing owls or evidence of recent owl occupation at burrows were detected within the survey area.	
Biological Resources and Wetlands/ Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility): Avoidance Measures: Breeding Season (February 1–August 31)	Biological Resources and Wetlands	Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility): Avoidance Measures: Breeding Season (February 1-August 31)	75	- MMRP BIO- CNST-	F- 05	Vol-1, ROD	Owl Avoidance and Minimization Plan Approval	Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action- Avoidance Measures: Breeding Season (February 1-August 31) CDFW, USFW5, and the SCVHA approves the avoidance and minimization plan provided by YTA. DFW, USFW5, and SCVHA will have 21 calendar days to respond to a request from VTA to review the proposed construction monitoring plan. If these parties do not respond within 21 calendar days, it will be presumed that they concur with the proposal and work can commence.	Newhall Maintenance Facility	D	с		VTA/C	IC	Geotechnical boring commenced in Q4 2023 at the West Portal location. Burrowing owl surveys were conducted on 11/10 and 11/13. No burrowing owls or evidence of recent owl occupation at burrows were detected within the survey area.	
Biological Resources and Wetlands/ Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility). Avoidance Measures: Breeding Season (February 1–August 31)	Biological Resources and Wetlands	Conduct Preconstruction Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility): Avoidance Measures: Breeding Season (February 1-Aueust 31)	76	- MMRP BIO- CNST-	F- 06	Vol-1, ROD	Determine Baseline Owl Behavior	Conduct Preconstruction Burrowing Owi Surveys at Newhall Maintenance Facility and Determine Appropriate Action- Avoidance Measures: Breeding Season (February 1-August 31) A qualified biologist monitors the owis for at least 3 days prior to construction to determine baseline nesting and foraging behavior (i.e., behavior without construction).	Newhall Maintenance Facility	D	с		VTA/C	IC	Geotechnical boring commenced in Q4 2023 at the West Portal location. Burrowing owl surveys were conducted on 11/10 and 11/13. No burrowing owls or evidence of recent owl occupation at burrows were detected within the survey area.	

Valley Transportation								I Commitments Record								
Authority					Miti	gatio	n Monitoring & Rep	porting Program								
			м	ARP Code		¥					In	plementa	ation		2023	
	Environme ntal			T	_	umer	۲				0	40	1	<u> </u>	Q4	Quarter
Env Doc Chapter / Mitigation Topic	ntal Document Chapter	Mitigation Topic	Chron o #	Measur	re #	Source Doc	Summ.	Mitigation Measure	Location	Tim eframe: Design (D)	Timeframe: Construction (C	Timeframe: Post construction (P	Responsible Party	Compliance Status		Mitigation Completed
Biological Resources and Wetlands/ Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility): Avoidance Messures: Breeding Season (February 1–August 31)	Biological Resources and Wetlands	Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility): Avoidance Measures: Breeding Season (February 1-Augurt 31)	77	- MMRP- BIO- CNST-		'ol-1, ROD	Survey Owl Behavior During Construction	Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action-Avoidance Measures: Breeding Season (February 1–August 31) The same qualified biologist monitors the owls during construction and finds no change in owl nesting and foraging behavior in response to construction activities.	Newhall Maintenance Facility	D	с		VTA/C	ю	Geotechnical boring commenced in Q4 2023 at the West Portal location. Burrowing ow surveys were conducted on 11/10 and 11/13. No burrowing owls or evidence of recent owl occupation at burrows were detected within the survey area.	
Biological Resources and Wetlands/ Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility): Avoidance Measures: Breeding Season (February 1–August 31)	Biological Resources and Wetlands	Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility): Avoidance Measures: Breeding Season (February 1–August 31)	78	- MMRP- BIO- CNST-		'ol-1, ROD	Cease Construction if Owl Behavior Changes	Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action-Avoidance Measures: Breeding Season (February 1–August 31) If there is any change in owl nesting and foraging behavior as a result of construction activities, these activities will cease within the 250-foot buffer. Construction cannot resume within the 250-foot buffer until the adults and juveniles from the occupied burrows have moved out of the construction area.	Newhall Maintenance Facility	D	с		VTA/C	кс	Geotechnical boring commenced in Q4 2023 at the West Portal location. Burrowing ow surveys were conducted on 11/10 and 11/13. No burrowing owls or evidence of recent owl occupation at burrows were detected within the survey area.	
Biological Resources and Wetlands/ Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility): Avoidance Measures: Breeding Season (February 1–August 31)	Biological Resources and Wetlands	Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility): Avoidance Measures: Breeding Season (February 1-August 31)	79	- MMRP- BIO- CNST-		'ol-1, ROD	Excavate Owl Burrow to Prevent Reoccupation	Conduct Preconstruction Burrowing Owd Surveys at Newhall Maintenance Facility and Determine Appropriate Action-Avoidance Measures: Breeding Season (February 1-August 3) If monitoring indicates that the nest is abandoned prior to the end of the nesting season and the burrow is no longer in use by owis, the non-disturbance buffer zone may be removed. The biologist will excavate the burrow to prevent reoccupation after receiving approval from CDFW, USFWS, and SCVHA.	Newhall Maintenance Facility	D	с		VTA/C	IC	Geotechnical boring commenced in Q4 2023 at the West Portal location. Burrowing owl surveys were conducted on 11/10 and 11/13. No burrowing owls or evidence of recent owl occupation at burrows were detected within the survey area.	
Biological Resources and Wetlands/ Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action - Avoidance Measures: Non- Breeding Season (September 1–January 31)	Biological Resources and Wetlands	Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action- Avoidance Measures: Non- Breeding Season (September 1-January 31)	80	- MMRP- BIO- CNST-		'ol-1, ROD	Establish Buffers Around Occupied Burrows	Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action-Avoidance Measures: Non-Breeding Season (September 1-January 31). During the non-breeding season (September 1-January 31), VTA will establish a 250-foot non- disturbance buffer around occupied burrows as determined by a qualified biologist. Construction activities outside of this 250-foot buffer are allowed. Construction activities within the non-busturbance buffer are allowed if the following citter (MMRP-BIO-CNST-F11 through F-15) are met in order to prevent owls from abandoning important overwintering the second s	Newhall Maintenance Facility	D	с		VTA/C	KC	Geotechnical boring commenced in Q4 2023 at the West Portal location. Burrowing owl surveys were conducted on 11/10 and 11/13. No burrowing owls or evidence of recent owl occupation at burrows were detected within the survey area.	
Biological Resources and Wetlands/ Conduct Preconstruction Burrowing Owf Surveys at Newhall Maintenance Facility and Determine Appropriate Action - Avoidance Measures: Non- Breeding Season (September 1-January 31)	Biological Resources and Wetlands	Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action- Avoidance Measures: Non- Breeding Season (September 1-January 31)	81	- MMRP- BIO- CNST-		'ol-1, ROD	Determine Baseline Owl Behavior	Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action-Avoidance Measures: Non-Breeding Season (September 1-January 31) A qualified biologist monitors the owls for at least 3 days prior to construction to determine baseline foraging behavior (i.e., behavior without construction).	Newhall Maintenance Facility	D	с		VTA/C	IC	Geotechnical boring commenced in Q4 2023 at the West Portal location. Burrowing owl surveys were conducted on 11/10 and 11/13. No burrowing owls or evidence of recent owl occupation at burrows were detected within the survey area.	
Biological Resources and Wetlands/ Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action-Avoidance Measures: Non- Breeding Season (September 1–January 31)	Biological Resources and Wetlands	Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action- Avoidance Measures: Non- Breeding Season (September 1–January 31)	82	- MMRP- BIO- CNST-		'ol-1, ROD	Survey Owl Behavior During Construction	Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action-Avoidance Measures: Non-Breeding Season (September 1-January 31). The same qualified biologist monitors the owls during construction and finds no change in owl foraging behavior in response to construction activities. Monitoring must continue as described here for the non-breeding season as long as the burrow remains active.	Newhall Maintenance Facility	D	с		VTA/C	IC	Geotechnical boring commenced in Q4 2023 at the West Portal location. Burrowing owl surveys were conducted on 11/10 and 11/13. No burrowing owls or evidence of recent owl occupation at burrows were detected within the survey area.	
Biological Resources and Wetlands/ Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action-Avoidance Measures: Non- Breeding Season (September 1–January 31)	Biological Resources and Wetlands	Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action- Avoidance Measures: Non- Breeding Season (September 1–January 31)	83	- MMRP- BIO- CNST-		'ol-1, ROD	Cease Construction if Owl Behavior Changes	Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action-Avoidance Measures: Non-Breeding Season (September 1-January 31) If there is any change in owl nesting and foraging behavior as a result of construction activities, these activities will cease within the 250-foot buffer.	Newhall Maintenance Facility	D	с		VTA/C	IC	Geotechnical boring commenced in Q4 2023 at the West Portal location. Burrowing owl surveys were conducted on 11/10 and 11/13. No burrowing owls or evidence of recent owl occupation at burrows were detected within the survey area.	
Biological Resources and Wetlands/ Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action - Avoidance Measures: Non- Breeding Season (September 1–January 31)	Biological Resources and Wetlands	Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action- Avoidance Measures: Non- Breeding Season (September 1–January 31)	84	- MMRP- BIO- CNST-		'ol-1, ROD	Excavate Owl Burrow to Prevent Reoccupation	Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action- Avoidance Measures: Non-Breeding Season (September 1-January 31). If the owls are gone for at least 1 week, VTA may request approval from CDFW, USFWS, and SCVHA for a qualified biologist to exervate usable burrows to prevent CDFW, USFWS, and scyclift and subject burrows are excavated, the buffer zone will be removed and construction may continue. Monitoring must continue as described above for the non-breeding season as long as the burrows compared to the season of the season as long as the burrows compared to the season of the season as long as the burrows compared to the season of the season of the season as long as the burrows compared to the season of	Newhall Maintenance Facility	D	с		VTA/C	К	Geotechnical boring commenced in Q4 2023 at the West Portal location. Burrowing owl surveys were conducted on 11/10 and 11/13. No burrowing owls or evidence of recent owl occupation at burrows were detected within the survey area.	

Valley Transportation					BS\	V Phas	e II - Environmenta	Commitments Record								
Authority					Mit	tigatio	n Monitoring & Rep	orting Program								
			MN	IRP Code		ŧ					Im	plementa	tion		2023	
	Environme					men	~								Q4	Quarter
Env Doc Chapter / Mitigation Topic	ntal Document Chapter	Mitigation Topic	Chron o #	Measu	re #	Source Docu	Summa	Mitigation Measure	Location	Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post- construction (P)	Responsible Party	Compliance Status		Mitigation Completed
Biological Resources and Wetlands/ Conduct Preconstruction Burrowing dowi Surveys at Newhall Maintenance Facility and Determine Appropriate Action - Avoidance Measures: Non- Breeding Season (September 1-January 31) Construction Monitoring	Biological Resources and Wetlands	Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action- Avoidance Measures: Non- Breeding Season (September 1–January 31)	85	- MMRP- BIO- CNST-		Vol-1, ROD	Maintain Non- Disturbance Owl Buffer Zones	Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action - Avoidance Measures: Non- Breeding Season (September 1-January 31) Construction Monitoring Based on the avoidance, minimization, and monitoring plan developed (as required above), during construction, VTA will establish and maintain the non-disturbance buffer zones if applicable. A qualified biologist will monitor the site consistent with the requirements described above to ensure that buffers are enforced and owls are not disturbed. The biological monitor will also conduct training of construction personnel on the avoidance procedures, buffer zones, and protocols in the event that a burrowing owl flies into an active construction zone.	Newhall Maintenance Facility	D	с		VTA/C	K	Geotechnical boring commenced in Q4 2023 at the West Portal location. Burrowing owl surveys were conducted on 11/10 and 11/13. No burrowing owls or evidence of recent owl occupation at burrows were detected within the survey area.	
Cultural Resources/ Implement Programmatic Agreement and Archaeological Resources Treatment Plan	Cultural Resources	Implement Programmatic Agreement and Archaeological Resources Treatment Plan	86	- MMRP- CUL- CNST-A	-	Vol-1, ROD	Implement Programmatic Arcement (PA) and Archaeological Resources Treatment Plan (ARTP)	Implement Programmatic Agreement and Archaeological Resources Treatment Plan: A Programmatic Agreement (PA) and a supporting Archaeological Resources Treatment Plan (ART) have been developed and will be executed in consultation with intersted Native Americans, the California State Historic Preservation Officer (SHPO), the Advisory Council on Historic Preservation, the California Department of Transportation (Calirons) District 4, the Cities of San Jose and Santa Clara, the Peninsula Corridor Joint Powers Board, and the South Bay Historical Rational State Historic Preservation Officer (SHPO), the Advisory Council on Bay Historical Rational State Historic Preservation Officer (SHPO), the Advisory Council on San Jose and Santa Clara, the Peninsula Corridor Joint Powers Board, and the South Bay Historical Rational State Historic Preservation Council construction of the BART Extension. The ARTP specifies the National Register of Historic Places criteria applicable for evaluation the will be appropriate given the locations and kinds of cultural properties predicted. The ARTP presents methods that combine pre-testing where possible (i.e., on geno lists or underveloped lands); testing after demolition of extant structures but before new ground-disturbing construction begins; construction-phase monitoring where appropriate; and standards for data recovery. Areas within the Area of Dortenial Effects (APE) where potenetral resources have beer identified, or that are designated as highly sensitive for buried resources, will be field investigated, concentrating on, but on confined to the area of direct effect. The ARTP meets The Secretary of the Interior's Standards and Guidelines for Archaeology and Historic Preservation (U.S. Department of the Interior, National Park Service, 1983, as amended and annotated).	Program-wid	e D	c		VTA	кс	VTA is implementing the Archaeological Resources Treatment Plan (ARTP). Results will be reported to all Consulting Parties (CPs) to the Programmatic Agreement (PA) Annual Report. In Q4 2023, archaeological planning and investigations are ongoing.	
Geology, Soils, and Seismicity/ Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards	Geology, Soils, and Seismicity	Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards	87	- MMRP- GEO- CNST-		Vol-1, ROD	Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards	Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards: If BART Extension stations, system facilities, or portions of the alignment are determined to be in area exceeding perturnet codes and standards including the California Building Code and BART Facilities Standards Design Criteria for liquefaction, VTA will implement the following methods (MMRP-GEO-CNT-AOL through A-hol) during construction to minimize the potential impacts. VTA will determine the exact methods to reduce impacts from liquefaction during final engineering.		e D	с	Ρ	VTA/C	IC	This measure has been applied as seen in the mitigation measures MMRP-GEO- CNST-A-01 through A-06 below.	
Geology, Soils, and Seismicity/ Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards	Geology, Soils, and Seismicity	Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards	88	- MMRP- GEO- CNST-		Vol-1, ROD	Use Pile Foundations as a Means of Ground Densification	Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards: • VTA may use pile foundations or equivalent measures as a means of ground densification as a cost-effective mitgation measure for the seismic liquefaction hazard. (Also see MMRP-GEO-CNST-A-O6).	Program-wid	2 D	c	Ρ	VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: In Q4 2023, design for liquefaction hazards is underway.	

Valley Transportation								I Commitments Record								
Authority					Mi	itigatio	on Monitoring & Re	porting Program								
			MN	MRP Co	de	Ħ					Im	plementa	tion		2023	
Env Doc Chapter / Mitigation Topic	Environme ntal Document Chapter	Mitigation Topic	Chron o #	¹ Meas	ure #	Source Documer	Summary	Mitigation Measure	Location	Timeframe: Design (D)	Timeframe: Construction (C)	imeframe: Post- construction (P)	Responsible Party	Co mpliance Status	Q4	Quarter Mitigation Completed
Geology, Soils, and Seismicity/ Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards	Geology, Soils, and Seismicity	Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards		- MMR GEO- CNST-	P- A- 03	Vol-1, ROD	Support Parking Garages on Piles	Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards: • VTA will support parking garages at the stations on piles or equivalent geotechnically sound support. (Also see MMRP-GEO-CNST-A-06).	Program-wide	D	c	P	VTA/C	к	The four contract packages and current design status is as follows: For CP.1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: In Q4 2023, design for liquefaction hazards is underway.	
Geology, Soils, and Seismicity/ Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards	Geology, Soils, and Seismicity	Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards		- MMR GEO- CNST-	P- A- 04	Vol-1, ROD	Integrate Subgrade Improvements for Shallow Foundations	Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards: • For shallow foundations for other peripheral facilities around the stations and pavement and parking lot, TX-and Will implement the following if necessary. • Otse additional reinforcement, construction joints, and grade beams. • Integrate subgrade improvements (using geotextile fabric and structural fill), and other methods to accommodate potential ground settlements. (Also see MMRP-GEO-CNST-A-06).	Program-wide	D	c	Ρ	VTA/C	ιc	The four contract packages and current design status is as follows: For CP.1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: In Q4 2023, design for liquefaction hazards is underway.	
Geology, Soils, and Seismicity/ Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards	Geology, Soils, and Seismicity	Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards		- MMR GEO- CNST-	P- A- 05	Vol-1, ROD	Mitigate Liquefaction- Related Uplift of Underground Facilities	Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards: To mitigate potential liquefaction-related uplift of the BART Extension's underground tunnels and stations situated below the water table in liqueflable soils, VTA will ensure that the construction contractor either applies anchors or designs the structures: argee enough to completely counteract the liquefaction-related uplift force. (Also see MMRP-GEO-CNST-A-06).	Program-wide	D	c	Ρ	VTA/C	кс	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: In Q4 2023, design for liquefaction hazards is underway.	

Valley Transportation						ase II - Environment ion Monitoring & R	al Commitments Record								
C C Autony					Ivitiga									2023	
			MN	IRP Code	ent "					Im	plementa	tion		Q4	_
Env Doc Chapter / Mitigation Topic	Environme ntal Document Chapter	Mitigation Topic	Chron o #	Measur	re # source Document	Summary	Mitigation Measure	Location	Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post- construction (P)	Responsible Party	Compliance Status		Quarter Mitigation Complete
Geology, Soils, and Seismicity/ Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards	Geology, Soils, and Seismicity	Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards	92	- MMRP- GEO- CNST-	A- Vol- 06 ROE		Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards: Other liquefaction hazard mitigation measures used in previous BART projects that may be considered for the BART Extension are a solitows. In shift treatment/densification with vibro-replacement stone columns. Is clead transfer to underlying bearing layers, which are non-liquefalabe with solf/cement columns. In Over-excavation and replacement of liquefaction prone soils with compacted engineered fill.	Program-wide	D	c	P	VTA/C	ic	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: In Q4 2023, design for liquefaction hazards is underway.	
	Geology, Soils, and Seismicity	Implement Preconstruction and Post- construction Building Condition Surveys for Settlement	93	- MMRP- GEO- CNST-	B- Vol-: 01 ROE		Implement Preconstruction and Post-construction Building Condition Surveys for Settlement: VTA will conduct preconstruction building condition surveys of the interiors and exteriors of select structures, both historic and non-historic building, within the settlement trough along the tunnel alignment and within the limit of influence anout the cut-and-cover excavations to assess the baseline condition of each property that could be affected by project induced settlement. These surveys will include written and photographic (video and still) records, including written descriptions and photos of any cracks. VTA will also conduct post- construction building condition surveys of the same structures. VTA will compare the results of these surveys with the preconstruction condition surveys on that any construction-related effects of tunneling and cut-and-cover construction on structures can be assessed. For the cut-and-cover activities, surveys will be performed prior to any construction of the tunnel wia Tunneli Boring Machine (TBM), surveys will be performed as close to the planned date of tunneling anglessibles to that the results are as current as possible. Therefore, surveys will be performed prior to passage of the TBMs, with some surveys conducted once tunneling has commende.	Program-wide	D	c	Ρ	VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3 Anewhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: VTA did not perform surveys at any properties in Q4 2023.	
	Geology, Soils, and Seismicity	Implement Preconstruction and Post- construction Building Condition Surveys for Settlement-Historic Buildings	94	- MMRP- GEO- CNST-	B- Vol- 02 ROE		Implement Preconstruction and Post-construction Building Condition Surveys for Settlement-Historic Buildings: For historic structures, the Condition Assessment Report, in accordance with Section 105, will be prepared along with the preconstruction building condition surveys. Results will be used by a structural engineer in condition with the historic Qualified Professional (QP) to identify structural settlement thresholds for each historic structure prior to construction. If anticipated maximum settlement due to tunneling or cut-and cover activities would cause more than cosmetic damage, then ground treatment technologies untimed in Section 5.3.1.4, Ground Treatment, Will be employed to turther reduce settlement to within building-specific structural settlement thresholds. In the event of inadvertent, we there are for the set for the set for building to red with the reduce settlement to account on the set for the set of the		D	c	Ρ	VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Shata Clara Station, and CP-4 Underground Stations, a General Engineering Countant, (GCF) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: VTA did not perform surveys at any historic properties in Q4 2023.	
	Geology, Soils, and Seismicity	Monitor Ground Surface during Tunneling Activities	95	- MMRP- GEO- CNST-C	- Vol-: ROE		Monitor Ground Surface during Tunneling Activities: The contractor will conduct ground surface monitoring prior to and after tunneling by licensed land surveyors. The contractor will mount survey monitoring points on potentially affected structures and representative historic buildings, including the most susceptible structures, select utilities susceptible to stettment, and in representative locations immediately adjacent to streams within the settlement rough along the tunnel alignment to monitor ground movements and effects of tunnel boring. The contractor must obtain approval from VTA and the historic QP to install any monitoring devices or crack gauges on or in historic buildings that require alteration of the building. The contractor will provide settlement monitoring data to VTA immediately upon completion of the field survey and use the data to assist in minimizing adverse effects along the tunnel alignment.	Program-wide	D	с		VTA/C	KC	The relevant contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: This measure did not apply in Q42023 because underground tunnels and stations construction has not commenced.	

Valley Transportation								Commitments Record								
Authority					Mit	igatio	n Monitoring & Re	oorting Program								
	Environmo		м	MRP Cod	le	nent					Im	plementa	tion		2023	_
Env Doc Chapter / Mitigation Topic	ntal Document Chapter	Mitigation Topic	Chron o #	n Meas	ure #	Source Docur	Summary	Mitigation Measure	Location	Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post- construction (P)	Responsible Party	Compliance Status		Quarter Mitigation Completed
Geology, Soils, and Seismicity/ Monitor Settlement Effects around Cut-and-Cover Excavations	Geology, Soils, and Seismicity	Monitor Settlement Effects around Cut-and- Cover Excavations	96	- MMRI GEO- CNST- D	P- -	Vol-1, ROD	Monitor Settlement Effects around Cut-and- Cover Excavation	Monitor Settlement Effects around Cut-and-Cover Excavations: For the cut and cover activities, the contractor will perform building and ground surface monitoring prior to, during, and after construction to survey the effects of cut-and-cover activities on structures, historic buildings, and utilities. The contractor will mount survey monitoring points on all potentially affected structures and historic buildings, including the most susceptible structures, select utilities susceptible to settlement, and in representative locations within the limit of influence around the cut-and-cover exavations to monitor any effects of settlement. The contractor must obtain approval from VTA and the historic QP to install any monitoring devices or crack gauges on or in historic building start require alteration of the building. Survey monitoring points will be field surveyed by licensed land surveyors at a frequency determined by the preconstruction building survey. Condition Assessment Report (for historic buildings). The contractor will provide settlement field survey monitoring data to VTA immediately upon completion of the field survey. The data will be used to direct real-time modifications to shoring and ground treatment practices and procedures as appropriate to minimize adverse effects within the limit of influence around the cut-and-cover exavations.	Program-wide	D	с		VTA/C	ĸ	The relevant contract packages and current design status is as follows: For CP-1 Systems, CP-3 Newhall Yard/Smat Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS4E) packages. For CP-2 Tunnel and Trackwork: This measure did not apply in Q4 2023 because underground tunnels and stations construction has not commenced.	
Geology, Soils, and Seismicity/ Implement Preconstruction Condition Surveys for Utilities	Geology, Soils, and Seismicity	Implement Preconstruction Condition Surveys for Utilities	97	- MMRI GEO- CNST-	-	Vol-1, ROD	Implement Preconstruction Condition Surveys for Utilities	Implement Preconstruction Condition Surveys for Utilities: The contractor will conduct preconstruction condition surveys of utilities deemed to be potentially at risk due to surface settlement or ground movement at BART Extension and TOJD sites. The contractor will monitor major utilities deemed to be at risk during construction and will coordinate with utility providers prior to installation of utility monitoring points.	Program-wide	D	с		VTA/C	IC	The relevant contract packages and current design status is as follows: For CP-1 Systems, CP-3 Newhill Yard/Smat Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (FS-2E) packages. For CP-2 Tunnel and Trackwork: This measure did not apply in Q4 2023 because underground tunnels and stations construction has not commenced.	
Geology, Solis, and Seismicity/ Minimize Excavation Bottom Failure Impacts	Geology, Soils, and Seismicity	Minimize Excavation Bottom Failure Impacts	98	- MMRI GEO- CNST-	-	Vol-1, ROD	Minimize Excavation Bottom Failure Impacts	Minimize Excavation Bottom Failure Impacts: If excavation bottom fails due to bottom heave, piping, or blow-out, the contractor will implement the following measures. • Remove water found in the pervicus sand layer via delowating: • Install deep sheeting. The sheet pile may also function as a cut-off to prevent sand boiling at the bottom of excavation due to excessive hydrostatic pressure within the loose soils. • Based on the boring data, encountering of the loose soils at the foundation subgrade may be anticipated a toistade locations for excavation of the stations. Deeper shoring may be required to penetrate through the aquifer to prevent the occurrence of the sand boiling condition. Deep soil mixing may have to be considered under this condition. If drivability of the shoring sheet pile through the dense to very dense sand at depths is a geotechnical concern due to the vibration and/or noise impact on the surrounding environment.	Program-wide	D	с	Ρ	VTA/C	к	The relevant contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhail Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: This measure did not apply in Q4 2023 because underground tunnels and stations construction has not commenced.	
Geology, Soils, and Seismicity/ Minimize Disturbance of Sensitive Deposits at the Excavation Subgrade	Geology, Soils, and Seismicity	Minimize Disturbance of Sensitive Deposits at the Excavation Subgrade	99	- MMRI GEO- CNST- G	P	Vol-1, ROD	Minimize Disturbance of Sensitive Deposits at the Excavation Subgrade	Minimize Disturbance of Sensitive Deposits at the Excavation Subgrade: In areas where clay and saturated sand deposits are sufficiently disturbed during construction activities at the bottom of an excavation and soft and loose saturated solid deposits are encountered, VTA will ensure that the contractor constructs a working platform as described below. • Over-excavate 18 inches below the native subgrade. • Place a stabiling geotexiti fabric or a geogrid at the bottom of the over-excavation. • Backer distulling geotexiti fabric or a geogrid at the bottom of the over-excavation. • Backfill the over-excavation with Class 2 Aggregate Base, Structural Backfill, or other bridging material. • Overlap the ends of the geotextile fabric on top of the bridging material for a minimum distance of 2 feet.	Program-wide	D	с		VTA/C	К	The relevant contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Shata Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: In Q4 2023, design for minimization for disturbance of sensitive deposits is underway.	
Geology, Soils, and Seismicity/ Incorporate Design Specifications to Minimize Effects from Expansive Soils	Geology, Soils, and Seismicity	Incorporate Design Specifications to Minimize Effects from Expansive Soils	100	- MMR GEO- CNST- H	P	Vol-1, ROD	Incorporate Design Specifications to Minimize Effects from Expansive Soils	Incorporate Design Specifications to Minimize Effects from Expansive Soils: VTA will ensure that the following specifications are incorporated into the BART Extension's final design when encountering expansive soils. • Despen foundations to below the zone of moisture fluctuation. • Use mat foundations to below the zone of moisture fluctuation. • Design perimeter footings to a minimum depth of 24 inches below the lowest adjacent grade to reduce the impact from the uplift pressure in expansive soils. • For any expansive soil in the upper 18 inches of building pads, line treat or replace with low to non-expansive soil with a Plasticity Index of 12 or less. • Use moisture barriers to minimize the variation of change in the moisture content within the expansive soil.	Program-wide	D	с		VTA/C	К	The relevant contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: In Q4 2023, design to minimize effects from expansive soils is underway.	
Geology, Soils, and Seismicity/ Stop Construction if Paleontological Resources are Discovered and Determine Appropriate Action	Geology, Soils, and Seismicity	Stop Construction if Paleontological Resources are Discovered and Determine Appropriate Action	101	- MMRI GEO- CNST-	-	Vol-1, ROD	Stop Construction if Paleontological Resources are Discovered	Stop Construction If Paleontological Resources are Discovered and Determine Appropriate Action: If suspected paleontological resources are encountered during grading and site preparation activities, the contractor will hat all alwork in the immediate vicinity of the find until a qualified paleontologist can evaluate the find and make recommendations. Paleontological resource materials may include resources such as fossils, plant impressions, or animal tracks preserved in rock. If the qualified paleontologist determines that the discovery represents a potentially significant paleontological resource, additional investigations and fossil recovery may be required to mitigate adverse impacts from implementation of the BART Extension. Construction will not resume until the resource-appropriate measures are recommended or the materials are determined to be not significant.	Program-wide	D	c		VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineening Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: No construction activities took place in Q4 2023. This measure will be applied in future quarters as necessary.	
Greenhouse Gas Emissions/ Implement Energy Efficiency Measures (for TOJD)	Greenhous e Gas Emissions	Implement Energy Efficiency Measures (TOJD)	102	- MMRI GHG-J		Vol-1, ROD	Implement Energy Efficiency Measures (TOJD)	Implement Energy Efficiency Measures (for TOJD): TOJD energy efficiency shall be 15 percent better than the 2013 Title 24, Part 11 requirements or shall meet the Title 24, Part 11 requirements that are applicable at the time of issuance of the building permits for individual obasis. whichever is more stringent.	TOJD		с		VTA/C	IC	TOD is not included in CP1 through CP4. Once TOD contracts are underway these measures will be addressed.	

Valley Transportation					BSV	Phase	e II - Environmenta	Commitments Record								
Authority					Miti	gation	n Monitoring & Rep	porting Program								
			MM	IRP Code							Im	plementa	tion		2023	
	Environme					men	>								Q4	
Env Doc Chapter / Mitigation Topic	ntal Document Chapter	Mitigation Topic	Chron o #	Measur	e #	Source Docu	Summar	Mitigation Measure	Location	Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post- construction (P)	Responsible Party	Compliance Status		Quarter Mitigation Completed
Greenhouse Gas Emissions/ Participate in Food Waste Programs (for TOJD)	Greenhous e Gas Emissions	Participate in Food Waste Programs (TOJD)	103	- MMRP- GHG-B		/ol-1, ROD	Participate in Food Waste Programs (TOJD)	Participate in Food Waste Programs (for TOJD): Restaurants shall be required to participate 100 percent in any extant City food waste programs. This mitigation measure shall be included as a mandatory performance standard for all agreements with developers of the TOJDs.	TOJD			Р	VTA/C	ю	TOD is not included in CP1 through CP4. Once TOD contracts are underway these measures will be addressed.	
Greenhouse Gas Emissions/ Utilize Electrical Landscaping Equipment (for TOJD)	Greenhous e Gas Emissions	Utilize Electrical Landscaping Equipment (TOJD)	104	- MMRP- GHG-C		/ol-1, ROD	Utilize Electrical Landscaping Equipment (TOJD)	Utilize Electrical Landscaping Equipment (for TOJD): TOJDs shall include installation of electrical outlets near all maintained landscaping areas to allow for the use of electrical landscaping equipment. This mitigation measure shall be included as a mandatory performance standard for all agreements with developers of the TOJDs.	DIOT	D			VTA/C	ю	TOD is not included in CP1 through CP4. Once TOD contracts are underway these measures will be addressed.	
Greenhouse Gas Emissions/ Provide Preferential Parking for Electric Vehicles (for TOJD)	e Gas	Provide Preferential Parking for Electric Vehicles (TOJD)	105	- MMRP- GHG-		/ol-1, ROD	Provide Preferential Parking for Electric Vehicles (TOJD)	Provide Preferential Parking for Electric Vehicles (for TOID): TOIDs shall provide preferential parking in all parking lots for electric vehicles and shall also provide charging equipment, as follows (IMMR-CHG-D-02 through D-03). This mitigation measure shall be included as a mandatory performance standard for all agreements with developers of the TOIDs.	TOJD	D			VTA/C	ю	TOD is not included in CP1 through CP4. Once TOD contracts are underway these measures will be addressed.	
Greenhouse Gas Emissions/ Provide Preferential Parking for Electric Vehicles- TOJD Residential Use	Greenhous e Gas Emissions	Provide Preferential Parking for Electric Vehicles (TOJD Residential)	106	- MMRP- GHG-	D- \ 02	/ol-1, ROD	Provide Preferential Parking for Electric Vehicles (TOJD Residential)	Provide Preferential Parking for Electric Vehicles-T010 Residential Use: A total of 10 percent of the required parking spaces shall be provided with a listed cabinet, box, or enclosure and connected to a conduit that links the parking spaces to the electrical service in a manner approved by the building and safety official. Of the listed cabinet, boxe, or enclosures provided, 50 percent shall have the necessary electric vehicle supply equipment installed to provide active charging stations that are ready for use by residents. The remainder ball be installed at such time as they are needed for use by residents. Electrical vehicle balteries and charging technology may change substantially over the next 15 years. As such, the local jurisdiction shall have the discretion to modify the specific requirements for this measure over time, provided that 1D percent of the spaces have electrical service and 5 percent have active charging, depending on what the technology at the time requires.		D			VTA/C	KC	TOD is not included in CP1 through CP4. Once TOD contracts are underway these measures will be addressed.	
Greenhouse Gas Emissions/ Provide Preferential Parking for Electric Vehicles- TOJD Residential Use	Greenhous e Gas Emissions	Provide Preferential Parking for Electric Vehicles (TOJD Commercial)	107	- MMRP- GHG-D		/ol-1, ROD	Provide Preferential Parking for Electric Vehicles (TOJD Commercial)	Provide Preferential Parking for Electric Vehicles-TOID Commercial Use: New commercial uses shall provide the electrical service capacity necessary as well as all conduits and related equipment necessary to serve 2 percent of the parking spaces with charging stations. Of these parking spaces, 50 percent shall initially be provided with the equipment necessary to function as online charging stations: upon completion of development. The remainder shall be installed at such time as they are needed for use by customers, employees, or other uses. Electrical which batteries and charging technology may charge substantially over the next 15 years. As such, the local jurisdiction shall have the discretion to modify the specific requirements for this measure over time, provided that 2 percent of the spaces have electrical service and 1 percent have active charging, depending on what the technology at the time requires.	TOJD	D			VTA/C	кс	TOD is not included in CP1 through CP4. Once TOD contracts are underway these measures will be addressed.	
Hazardous Materials/ Prepare Remedial Action Plans		Prepare Remedial Action Plans	108	- MMRP- HAZ- CNST-A		/ol-1, I ROD	Prepare Remedial Action Plans	Prepare Remedial Action Plans: Prior to construction, VTA will prepare new and/or amended remedial action plans (RAPs) for the BART Extension, which will be approved by the Regional Water Quality Control Board (RWQCB). The RAPs will satisfy the key objectives of the Containment Management Plan (CMP) (e.g., characterization of soil and ballast quality relative to the maximum acceptable contaminant levels for reuse) and incorporate measures for managing soil, ballast, and groundwater from the CMP (e.g., sampling and analysis, health and safety, stockpiling, offsite disposal, and treatment) to address all known and potential sources of environmental contamination identified in the October 2015 VTA's BART Silcon Valley Phase II Extension Project Initial Site Assessment (SA), VTA will provide measures to satisfy regulatory notification requirements and/or dewatering associated with land-use covenants near the Diridon and Santa Clara Stations and over the tunnel alignments between these stations. The RAPs will also include an assessment of potential vapor intrusion concerns for indoor residents and workers from groundwater contaminant plumes, such as chiorinated solvents. In coordination with the RWQCB, selected remedial measures to protect human health ment, include, but are not limited to, source removal of contaminated materials, in-situ treatment, and implementation of engineering controls (e.g., vapor barriers) and/or institutional controls prior to building occupancy.	Project wide	D				ιC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Sharta Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: No construction activities took place in Q4 2023. This measure will be applied in future quarters as necessary.	
Noise and Vibration/ Incorporate FTA Criteria Compliant Construction Noise and Vibration Specifications	Noise and Vibration	Incorporate FTA Criteria Compliant Construction Noise and Vibration Specifications	109	- MMRP- NV- CNST-A		/ol-1, ROD	Incorporate FTA Criteria Compliant Construction Noise and Vibration Specifications	Incorporate FTA Criteria Compliant Construction Noise and Vibration Specifications: VTA will incorporate a comprehensive construction noise and vibration specification into all construction bid documents requiring compliance with FTA criteria. VTA will emphasize the existence and importance of noise and vibration control specifications at pre-bid and preconstruction conferences.	Project wide	D	с			IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&EI) packages. For CP-2 Tunnel and Trackwork: Section 01.81 220 Noise and Vibration Control has been included in the project specifications and is provided in all bid documents.	

Valley Transportation Authority							I Commitments Record								
Authority				P	Vitigati	on Monitoring & Re	porting Program								
			мм	RP Code	t					Ir	mplementa	tion		2023	
Env Doc Chapter / Mitigation Topic	Environme ntal Document Chapter	Mitigation Topic	Chron o #	Measure	# Source Docume	Summary	Mitigation Measure	Location	Tim eframe: Design (D)	Timeframe: Construction (C)	limeframe: Post- construction (P)	Responsible Party	Compliance Status	Q4	Quarter Mitigation Completed
Noise and Vibration/ Locate Equipment as Far as Feasible from Sensitive Sites	Noise and Vibration	Locate Equipment as Far as Feasible from Sensitive Sites	110	- MMRP- NV- CNST-B	Vol-1, ROD	Locate Equipment as Far as Feasible from Sensitive Sites	Locate Equipment as Far as Feasible from Sensitive Sites: The contractor will locate stationary equipment, such as generators and compressors as far as feasible from noise and wibration sensitive sites, and will accountically treat such equipment. The contractor will also locate grout batch plants, grout silos, mixers, pumps, diesel pumping equipment, and similar noise and vibration generating equipment as far as feasible from noise sensitive sites, and acoustically treat the same if necessary.	Project wide		с	P -		IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate [PS&E] packages. For CP-2 Tunnel and Trackwork: No construction activities took place in Q4 2023. This measure will be applied in future quarters as necessary.	
Noise and Vibration /Construct Temporary Noise Barriers	Noise and Vibration	Construct Temporary Noise Barriers	111	- MMRP- NV- CNST-C	- Vol-1, ROD	Construct Temporary Noise Barriers	Construct Temporary Noise Barriers: The contractor will install temporary noise barriers or noise control blankets in areas between noisy activities and noise-sensitive receptors, where practical and effective. Temporary noise barriers can reduce construction noise by 15 of 15 dB, depending on the height of the barrier and the placement of the barrier. To be most effective, the contractor will place the barrier as close as possible to the noise source or the sensitive receptor. Temporary barriers tend to be particularly effective because they can be easily moved as work progresses to optimize performance. If temporary noise barriers and site layout do not result in compliance with the noise limit, the contractor may consider retrofitting existing windows and doors with new acoustically rated units for the residential structures.	Project wide; 28TH Street/Little Portugal (Alum Rock)	D	с			кс	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: No construction activities took place in Q4 2023. This measure will be applied in future quarters as necessary.	
Noise and Vibration/ Operate Equipment to Minimize Annoying Noise and Vibration	Noise and Vibration	Operate Equipment to Minimize Annoying Noise and Vibration	112	- MMRP- NV- CNST- D	- Vol-1, ROD	Operate Equipment to Minimize Annoying Noise and Vibration	Operate Equipment to Minimize Annoying Noise and Vibration: Contractors will implement the following measures: Use electric instead of diesel-powered equipment, hydraulic tools instead of pneumatic impact tools, and electric instead of air- or gasoline-driven saws, where feasible. Use an augering dirlir effor setting platics in lice of impact plie drivers, where feasible. Operate equipment so as to minimize banging, clattering, buzzing, and other annoying types of noise, especially near residential areas during inglittime hours. Urun of fiding equipment, whenever possible. Line haul truck beds with nubber or sand to reduce noise, if needed and requested by VTA. Line or cover hoppers, conveyor transfer points, storage bins, and chutes with sound-	Program-wide		с		VTA/C	кс	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: No construction activities took place in Q4 2023. This measure will be applied in future quarters as necessary.	
Noise and Vibration/ Route Construction Trucks along Truck Routes Least Disturbing to Residents	Noise and Vibration	Route Construction Trucks along Truck Routes Least Disturbing to Residents	113	- MMRP- NV- CNST-E	- Vol-1, ROD	Route Construction Trucks along Truck Routes Least Disturbing to Residents	Route Construction Trucks along Truck Routes Least Disturbing to Residents: The contractor will route construction-related truck traffic along truck routes and roadways that would cause the least disturbance to residents. The contractor will you to loading and unloading zoores to minimize truck idling near sensitive receptors and to minimize truck reversing so back-up alarms are minimized near residences.	Program-wide		с		VTA/C	К	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: The Contractor has begun drafting a Construction Transportation Management Plan (CTMP) and is coordinating with City and County officials to reduce construction-related traffic and minimize disturbance to residents. No construction activities took place in Q4 2023. This measure will be applied in future quarters as necessary.	
Noise and Vibration/ Secure Steel and Concrete Plates over Excavated Holes and Trenches	Noise and Vibration	Secure Steel and Concrete Plates over Excavated Holes and Trenches	114	- MMRP- NV- CNST-F	- Vol-1, ROD	Secure Steel and Concrete Plates over Excavated Holes and Trenches	Secure Steel and Concrete Plates over Excavated Holes and Trenches: The contractor will secure steel and/or concrete plates over excavated holes and trenches to reduce ratiling when whiles pass over. If complaints are received, the contractor will use thicker plates, stiffer beams beneath the plates, and/or rubber gaskets between the beams and plates to further reduce rattling noise and vibration.	Program-wide		с		VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: Steel plates from the construction activities completed in Q2 2023 have been removed during Q4 2023 at the Downtown San Jose Primary Headhouse.	

Valley Transportation								Commitments Record								
Authority					Miti	igatio	n Monitoring & Rep	porting Program								
			M	ARP Code							In	plementa	tion		2023	
Env Doc Chapter / Mitigation Topic	Environme ntal Document Chapter	Mitigation Topic	Chron o #	Measur		Source Documen	Summary	Mitigation Measure	Location	Timeframe: Design (D)	Timeframe: Construction (C)	meframe: Post- onstruction (P)	Responsible Party	Compliance Status	Q4	Quarter Mitigation Completed
Noise and Vibration/ Use Best Available Practices to Reduce Noise and Vibration	Noise and Vibration	Use Best Available Practices to Reduce Noise and Vibration	115	- MMRP- NV- CNST- G		Vol-1, ROD	Use Best Available Practices to Reduce Noise and Vibration	Use Best Available Practices to Reduce Noise and Vibration: The contractor will use the best available practices to reduce the potential for exceedances of noise and vibration criteria due to construction activities. This may require the use of equipment with special exhaust silencers, construction of temporary enclosures or noise barriers around activities, and tracks for the tracked vehicles to be in good condition.	Program-wide		c	μυ	VTA/C		The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: No construction activities took place in Q4 2023. This measure will be applied in future quarters as necessary.	
Noise and Vibration/ Adhere to Local Jurisdiction Construction Time Periods, to the Extent Feasible	Noise and Vibration	Adhere to Local Jurisdiction Construction Time Periods, to the Extent Feasible	116	- MMRP- NV- CNST- H		Vol-1, ROD	Adhere to Local Jurisdiction Construction Time Periods	Adhere to Local Jurisdiction Construction Time Periods, to the Extent Feasible: The contractor will adhere to local jurisdiction construction time periods, to the extent feasible, recognizing that nighttime and weekend construction may be necessary and/or preferred by VTA and local jurisdictions to reduce other related environmental effects such as traffic. VTA will coordinate with the cities of San Jose and Santa Clara on construction operations during nighttime and weekends, and where feasible adhere to local ordinance. San Jose Ordinance Z6248, Z6594 restricts construction to between 7 a.m. and 7 p.m. Santa Clara Ordinance 1549 § 1, 71-586; (or 1556 § 1, 9-16-66. Formerly § 13-32. Testricts construction to between 7 a.m. and 6 p.m. on weekdays, and between 9 a.m. and 6 p.m. on Saturday.	Program-wide		с		VTA/C	кс	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: No construction activities took place in Q4 2023. This measure will be applied in future quarters as necessary.	
Noise and Vibration/ Perform Preconstruction Ambient Noise Measurements at All CSAs	Noise and Vibration	Perform Preconstruction Ambient Noise Measurements at All CSAs	117	- MMRP- NV- CNST-I		Vol-1, ROD	Perform Preconstruction Ambient Noise Measurements at Construction Staging Areas (CSA)	Perform Preconstruction Ambient Noise Measurements at All CSAs: The contractor will perform preconstruction ambient noise measurements at all construction staging areas, which include the tunnel portals, stations, and mid-tunnel ventilation sites. These measurements will document the noise environment just prior to start of construction at representative locations along the alignment. These measurements will be performed continuously over a minimum of 10 days (240 hours).	Program-wide	D			VTA/C	КС	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: This measure din ont apply in Q4 2023 because construction on tunnel portals, stations, and ventilation sites has not commenced.	

Transportation Authority		1					n Monitoring & Re	Il Commitments Record porting Program								
						-	-								2023	
			м	WRP Cod	le	ent					Ir	nplementa	ion			
Env Doc Chapter / Mitigation Topic	Environme ntal Document Chapter	Mitigation Topic	Chror o #	Meas	ure #	Source Docum	Summary	Mitigation Measure	Location	Timeframe: Design (D)	Timeframe: Construction (C)	imeframe: Post- construction (P)	Responsible Party	Compliance Status	Q4	Quarter Mitigation Complete
loise and Vibration/ mplement a Construction Noise ontrol and Monitoring Plan	Noise and Vibration	Implement a Construction Noise Control and Monitoring Plan	118	- MMRI NV- CNST-	-	Vol-1, ROD	Implement a Construction Noise Control Monitoring Plan	Implement a Construction Noise Control and Monitoring Plan: The contractor will submit a Noise Control and Monitoring Plan to VTA for approval. The plan will be prepared by a qualified accustical enjoyner whose qualifications and proposed noise control and monitoring activities will be subject to approval of VTA prior to construction activities. The contractor will update the Noise Control and Monitoring Plan every 3 monitors and will include all the pertinent information about construction equipment and site layout, the projected noise levels, and the noise mitigation measures that may be required to comply with the noise limits for each sensitive receptor. The Noise Control and Monitoring Plan will also autime the monitoring equipment and procedures the contractor will use to perform noise measurements and to identify noise-sensitive receptors in the immediate visuals of noise monitoring and submit the documentation to VTA weekly. In the event that levels exceed allowable noise limits, VTA will ensure that contractually required corrective measures consistent with the Noise Control and Monitoring Plan are implemented.	Program-wide	D	c	F.o.	VTA/C	ю	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: The contractor has begun drafting a Construction Noise and Vibration Monitoring Plan (LNWMP) and Construction Noise and Vibration Control Plan (CNVCP). The plans will outline monitoring equipment, procedures, measurement locations, frequencies, and durations, and will be updated quarterly, once construction begins, in accordance with Section 10.78.5 in 01 & 12 Noise and Vibration Control. Results will be documented and submitted to VTA as required in 01 & 12 ONoise and Vibration Control. The measure did not apply in Q4 2023 because construction beats commenced, and will be applied in future quarters an necessary.	
toise and Vibration/ equire Minimum Qualifications for he Acoustical Engineer	Noise and Vibration	Require Minimum Qualifications for the Acoustical Engineer	119	- MMRI NV- CNST-	-	Vol-1, ROD	Require Minimum Qualifications for the Acoustical Engineer	Require Minimum Qualifications for the Acoustical Engineer: The minimum qualifications for the Acoustical Engineer will be a Bachelor of Science or Engineering degree, from a qualified program in engineering or physics offered by an accredited university or college, and 5 years in noise control engineering and construction noise analysis.	Program-wide	D	с		VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: In 04 2022, the CP-2 contractor submitted the qualifications of an Acoustical Engineer in accordance with this measure.	
Noise and Vibration/ rohibit Operation of Noise- enerating Equipment Prior to Acceptance of Noise Control and Aonitoring Plan	Noise and Vibration	Prohibit Operation of Noise-Generating Equipment Prior to Acceptance of Noise Control and Monitoring Plan	120	- MMRI NV- CNST-	-	Vol-1, ROD	Prohibit Operation of Noise-Generating Equipment Prior to Acceptance of Noise Plan	Prohibit Operation of Noise-Generating Equipment Prior to Acceptance of Noise Control and Monitoring Plan: The contractor will not operate noise-generating equipment at the construction site prior to acceptance of the Noise Control and Monitoring Plan.	Program-wide		c		VTA/C	K	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santo Laras Station, and CP-4 Underground Stations, a Ceneral Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: No noise generating equipment was operated in Q4 2023 as construction has not commenced.	
Joise and Vibration/ stall Long-Term Noise Monitors at SAs during all Construction Phases	Noise and Vibration	Install Long-Term Noise Monitors at CSAs during all Construction Phases	121	- MMRI NV- CNST-	- M- 01	Vol-1, ROD	Install Stationary Long- Term Noise Monitors at Construction Staging Areas (CSA)	Install Long-Term Noise Monitors at CSAs during all Construction Phases: The contractor will install stationary noise monitors at all construction staging areas, which include the tunnel portals, stations, and mid-tunnel venillation sites, during all the construction phases. Noise sampling will be performed continuously at representative monitoring locations nearest the most sensitive receptor at each cloation. A minimum of two stationary monitors will be required at the Downtown San Jose Station and Diridon Station locations. The monitoring locations may be moved as the construction work progresses. If equired, additional noise monitoring site(2) may be added by the VTA to address any specific situation or concern. At the Alum Rock/28th Street Station and the West Portal staging area, stationary noise monitors will also be initially installed and may be enoved if the noise levels are in compliance with the noise limits when the full-production construction activities are closest to the sensitive receptors. Al data gathered by the contractor will be continuously available to VTA and submitted weekly to VTA for approval.	Program-wide	D	c		VTA/C	к	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineenit Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: No long-term noise monitors were required in Q4 2023 as construction has not commenced.	

Valley Transportation Authority							e II - Environmenta n Monitoring & Rep	I Commitments Record		-						
															2023	
	Environme		M	VRP Cod	2	ment	~				In	plementat	ion		Q4	
Env Doc Chapter / Mitigation Topic	ntal Document Chapter	Mitigation Topic	Chron o #	Measu	re #	Source Docu	Summar	Mitigation Measure	Location	Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post- construction (P)	Responsible Party	Compliance Status		Quarter Mitigation Completed
Noise and Vibration/ Install Long-Term Noise Monitors at CSAs during all Construction Phases	Noise and Vibration	Install Long-Term Noise Monitors at CSAs during all Construction Phases	122	- MMRP NV- CNST-		Vol-1, ROD		Install Long-Term Noise Monitors at CSAs during all Construction Phases: In addition to these stationary noise monitors, the contractor will conduct 30-minute noise sampling with hand-held monitors network and the station sites and a tother construction sites, including the ventilation shafts and gap breaker stations, to ensure compliance with the noise criteria. If required, additional noise monitoring site(s) may be added by VTA to address any specific situation or concern. The contractor will submit noise data to VTA for approval on a weekly basis, and will include details on location and type of construction activity and details, photographs, and setches of noise monitoring locations. A qualified acoustical engineer will determine whether work was within thresholds or not, and indicate any steps taken during monitoring to lower noise levels to within limits.	Program-wide	D	c		VTA/C	ĸ	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, as General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: No long-term noise monitors were required in Q4 2023 as construction has not commenced.	
Noise and Vibration/ Ensure Equipment is Pre-certified to Meet Noise Limits	Noise and Vibration	Ensure Equipment is Pre- certified to Meet Noise Limits	123	- MMRP NV- CNST- N		Vol-1, ROD	Ensure Equipment is Pre- certified to Meet Noise Limits	Ensure Equipment is Pre-certified to Meet Noise Limits: For major equipment to be used at the surface of the construction site for a total duration greater than 5 days, the contractor will ensure that the equipment is pre-certified by the acoustical engineer during field measurements at less the or guaranteed by the equipment vendor to meet the noise limits developed for construction equipment as shown in Table 5-8. TAA will re-examine and develop the final limits to be applied during the engineering brase, and the contractor will writly these limits during initial and active performance of the work when the equipment arrives on site. The contractor will refets construction equipment at 6-month intervals while in use onsite. Any equipment used during construction may be subject to confirmatory noise level testing while performing the work at the request of VTA.	Program-wide	D	с		VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: No major equipment was used in Q4 2023 because construction utilizing major equipment has not commenced.	
Noise and Vibration/ Implement a Complaint Resolution Procedure	Noise and Vibration	Implement a Complaint Resolution Procedure	124	- MMRP NV- CNST- O		Vol-1, ROD	Implement a Noise and Vibration Complaint Resolution Procedure	Implement a Complaint Resolution Procedure: The contractor will implement a complaint resolution procedure to rapidly address any noise and vibration problems that may develop during construction. After a complaint is received, the contractor will assign the complaint a case number and will contact the person making the complaint to receive further clarification on the concern. The contractor will assue with the construction team to determine the appropriate action to resolve the issue. The contractor will show again contact the person making the complaint to describe how the issue has been resolved.	Program-wide	D	с		VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clars Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: This measure did not apply in Q4 2023 because the contractor has not commenced construction.	

Valley Transportation								Commitments Record								
🗨 🥣 👞 Autnority					wiiti	igatio	n Monitoring & Rep	orung Program				I	1			
			мм	IRP Code		ŧ					Im	plementa	tion		2023	
Env Doc Chapter / Mitigation Topic	Environme ntal Document Chapter	Mitigation Topic	Chron o #	Measure	e #	Source Docume	Summary	Mitigation Measure	Location	Tim eframe: Design (D)	Timeframe: Construction (C)	Fimeframe: Post- construction (P)	Responsible Party	Compliance Status	Q4	Quarter Mitigatio Complete
Noise and Vibration/ Implement a Construction Vibration Control and Monitoring Plan	Noise and Vibration	Implement a Construction Vibration Control and Monitoring Plan	125	- MMRP- NV- CNST-		Vol-1, ROD	Prepare a Construction Vibration Control and Monitoring Plan	Implement a Construction Vibration Control and Monitoring Plan: The contractor will be required to submit a Construction Vibration Control and Monitoring Plan to VTA for approval. The plan will be preared by a qualified Vibration specialist whose qualifications and proposed vibration control and monitoring activities will be subject to approval of VTA prior to construction activities. The Construction Vibration Control and Monitoring Plan will be updated every 3 months and include all the pertinent information about construction equipment and site layout, the projected vibration levels, and the vibration control measures that may be required to comply with the vibration limits as outlined in this measure for each building type. The Construction Vibration Control and Monitoring Plan will also outline the monitoring equipment and procedures the contractor will use to perform vibration measurements for vibration-sensitive receptors in the protocol for monitoring existing. Including details regarding the vibration measurement locations, frequency, and duration of measurements are to exih coation. The plan will oblight the protocol for monitoring existing cracks in buildings over time, to determine any construction-related impacts. At a minimum, crack gauges will be installed on existing cracks prior to construction, and monitoring of the gauges will be performed continuously over the construction to assess whether new construction- related damage has occurred. The contractor must obtain approval from VTA and the QP to install any crack gauges on or in historic buildings that require alteration of the building.	Program-wide	D	c		VTA/C	KC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: The contractor has begun drafting a Construction Noise and Vibration Monitoring Plan (CNVMP) and Construction Noise and Vibration Control Plan (CNVCP). The plans will outline monitoring equipment, procedures, measurement locations, frequencies, and durations, and will be updated quarterly, once construction begins, in accordance with Section 1.07.8.5 in 01 & 12 0 Noise and Vibration Control. Results will be documented and submitted to VTA as required in 01 & 12 0 Noise and Vibration Control. The contractor has not installed construction monitoring equipment in Q4 2023 as construction has not commenced.	
Noise and Vibration/ mplement a Construction Vibration Control and Monitoring Plan	Noise and Vibration	Implement a Construction Vibration Control and Monitoring Plan	126	- MMRP- NV- CNST-		Vol-1, ROD	Halt Construction if Levels Exceed Allowable Vibration Limits	Implement a Construction Vibration Control and Monitoring Plan: The results of vibration monitoring will be documented and submitted to VTA weekly. In the event that levels exceed allowable vibration limits, the work will be hated immediately to ensure that no structural damage occurs, and additional required corrective measures consistent with the Construction Vibration Control and Monitoring Plan will be implemented. The contractor will initially conduct vibration monitoring daily at the nearest affected buildings during any construction activities that could induce vibration impacts, typically within 100 feet of any building. Ultration Will allow entry to many activities that a structure of any building. Ultration will allo be monitored where vibration is expected to approach the applicable limit based on the building type and condition, as determined by VTA in coordination will the structural engineer for non-historic buildings, and VTA and the historic OP for historic buildings. Monitoring of utilities that are sensitive to vibration will be coordinated with the utility comparise and performed for the marest affected vibration- sensitive utilities during any construction activities that could induce vibration impacts.	Program-wide	D	c		VTA/C	К	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: This mitigation measure was included in the CP2 Conformed set under Vol 1 General Requirements, Section DIS 120 Noise and Vibration Control. The contractor has begun drafting a Construction Noise and Vibration Control. The Plan (CNWP) and Construction Noise and Vibration Control. The Ioanti and Construction Noise and Vibration Control. The Ioantion and Construction Noise and Vibration Control Plan (CNWCP). The plans will outline monitoring equipment, procedures, measurement locations, frequencies, and duritorius, and will be updated quarterly, once construction begins, in accordance with Section 1.07.8.5 in 01 \$13 20 Noise and Vibration Control. Results will be documented and submitted to VTA as required in 01 \$1.20 Noise and Vibration Control. The contractor has not conducted vibration monitoring in Q4 2023 as construction has not commenced.	
loke and Vibration/ mplement a Construction Vibration ontrol and Monitoring Plan	Noise and Vibration	Implement a Construction Vibration Control and Monitoring Plan	127	- MMRP- NV- CNST-		Vol-1, ROD	Do Not Exceed the FTA Construction Vibration Damage Criteria	Implement a Construction Vibration Control and Monitoring Plan: The contractor will perform monitoring continuously at the closest receptor during all demolition and construction activities to ensure vibration levels will not exceed the FTA construction vibration damage criteria for applicable building type, as follows: 0.12 peak particle velocity (PPV) (inches/second) for buildings that are extremely susceptible to vibration damage, 0.2 PPV (inches/second) for buildings that are extremely susceptible to vibration damage, 0.3 PPV (inches/second) for non-engineered timber and masonry buildings, 0.3 PPV (inches/second) for reinforced-concrete, steef or timber (no plaster) buildings. For historic buildings, the vibration threshold will likely be between 0.12 to 0.2 PPV (inches/second) depending contition sessment Report a soutimed in Mitguiton Measure RV- CNST-R will be utilized to confirm the structure types and determine which vibration thresholds apply in consultation with a qualified structural engineer and the historic QP. For utilities, vibration thresholds will follow industry standards in coordination with utility companies, and typically adhere to a 0.5 PPV (inches/second) (threshold.	Program-wide	D	c		VTA/C	IС	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: This mitigation measure was included in the CP2 Conformed set under Vol 1 General Requirements, Section 03.81.20 Noise and Vibration Control. The contractor has begund raffing a Construction Noise and Vibration Control Plan (CNVCP) The plans will outline monitoring equipment, procedures, measurement locations, frequencies, and durations, and will be updated quarterly, once construction begins, in accordance with Section 1.07.8.5 in 01.81.20 Noise and Vibration Control. Results will be documented and submitted to VTA as required in 01.81.20 Noise and Vibration Control. The contractor has not commenced.	

Valley Transportation						-			l Commitments Record								
Authority						Mi	tigatio	n Monitoring & Re	porting Program								
				мм	RP Code		ient					Im	plementat	ion		2023	_
Env Doc Chapter / Mitigation Topic Thai Document Chapter	ent Mitigation Topic	Mitigation Topic Chron o #	Measu	ire #	Source Docum	Summary	Mitigation Measure		Tim eframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post- construction (P)	Responsible Party	Compliance Status		Quarter Mitigation Completed		
Noise and Vibration/ Implement a Construction Vibration Control and Monitoring Plan	Noise and Vibration	Vibra	ement a Construction ation Control and itoring Plan	128	- MMRP- NV- CNST-	- P- 04	Vol-1, ROD	Measure Building Vibration In Vertical Direction and Utilites In Accordance with Meter Instructions	Implement a Construction Vibration Control and Monitoring Plan: The contractor will measure vibration in buildings in the vertical direction on the ground surface or building floor and for utilities in accordance with meter instructions and industry best practices. Vibration levels will be measured continuously during daily construction operations to ensure that peak vibration-generating work is aptured. Daily monitoring will be performed during a continuous work shift (typically 8 hours) that includes the closest and most vibration-inducing work. The contractor will compare vibration in buildings agains to the structural damage and nuisance thresholds in terms of velocity levels in d8 or PPV. Vibration for utilities will be compared against structural damage thresholds in terms of PPV. If the measured vibration data are in compliance with the vibration limits after work has completed start-up and entered full- production mode (typically within 2 weeks to 30 days), vibration monitoring may be performed once a week instead of continuously each day if approved by YTA. For non-historic structures, if construction vibration adaist construction methods to meet appropriate vibration limits so that the threshold is not exceeded again.	Program-wide	2 D	c		VTA/C	КС	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (F9&Ed) packages. For CP-2 Tunnel and Trackwork: This mitigation measure was included in the CP2 Conformed set under Vol 1 General Requirements, Section 01 B1 20 Noise and Vibration Control. The contractor has begun drafting a Construction Noise and Vibration Monitoring Plan (CNVMP) and Construction Noise and Vibration Control Plan (CNVCP). The plans will outline monitoring equipment, procedures, measurement locations, frequencies, and durations, and will be updated quarterly, once construction begins, in accordance with Section 10.78.5 in 01 B1 20 Noise and Vibration Control. Results will be documented and submitted to VTA as required in 01 B1 20 Noise and Vibration Control. The construction has not comducted vibration monitoring in Q4 2023 as construction bas not commenced.	
Noise and Vibration/ Implement a Construction Vibration Control and Monitoring Plan- Historic structures	Noise and Vibration	Vibra Moni	ement a Construction ation Control and litoring Plan- Historic ttures	129	- MMRP- NV- CNST-	- P- 05	Vol-1, ROD	Notify Qualified Professional (QP) if Historic Building Construction Vibration Approaches Threshold	Implement a Construction Vibration Control and Monitoring Plan-Historic structures: For historic structures, if construction vibration approaches the structural damage threshold, the structural damage threshold, Contractor must notify the historic QP and VTA immediately, in real time, and structural damage threshold, Contractor must notify the historic QP and VTA immediately, in real time, and stop all vibration-inducing construction work immediately to adjust methods. The contractor will adjust work methods and techniques to meet appropriate vibration limits so that the threshold is not exceeded again before work is restarted. In the event of inadvertent, construction-related damage to historic buildings, repairs will be conducted in accordance with the Secretary of the interior's Standards for the Treatment of Historic Properties and consistent with 36 CFR 800.13(b). VTA and the historic QP will implement these repairs in consultation with FTA and SHPO.	Program-wide	2 D	c		VTA/C	КС	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: This mitigation measure was included in the CP2 Conformed set under Vol 1 General Requirements, Section 01 81 20 Noise and Vibration Control. The contractor has begund raffing a Construction Noise and Vibration Monitoring Plan (CNVMP) and Construction Noise and Vibration Control Plan (CNVCP). The plans will outline monitoring equipment, procedures, measurement locations, frequencies, and durations, and will be updated quarterly, once construction begins, in accordance with Section 107.8.5 in 01 81.20 Noise and Vibration Control. Results will be documented and submitted to VTA as required in 01 81.20 Noise and Vibration Control. The contractor has not conducted vibration monitoring at historic structures in Q4 2023 as construction Na not commenced.	
Noise and Vibration/ Perform Vertical Direction Vibration Monitoring	Noise and Vibration		orm Vertical Direction ation Monitoring	130	- MMRP- NV- CNST- Q		Vol-1, ROD	Perform Vertical Direction Vibration Monitoring	Perform Vertical Direction Vibration Monitoring: The contractor will perform continuous vertical direction vibration (root mean square) monitoring on the ground at the nearest representative residential structure during muck extraction and supply train operations in the tunnels. These measurements will be repeated for a minimum of 1 week at approximately 1- mile intervals along the tunnel construction until it is demonstrated that the levels are below the FTA thresholds.	Program-wide	2	с		VTA/C	К	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineening Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: The Construction Noise and Vibration Monitoring Plan was submitted in Q1 2023 and requires continuous vertical direction vibration monitoring during unck extraction. Vertical direction vibration monitoring was not performed in Q4 2023 as construction has not commenced. This measure was not implemented in Q4 2023 because construction, including muck extraction, has not yet commenced.	
Noise and Vibration/ Implement Preconstruction and Post- Construction Building Condition Surveys for Vibration	Noise and Vibration	Preco	ement onstruction and Post- truction Building Hiton Surveys for ation	131	- MMRP- NV- CNST-	- R- 01	Vol-1, ROD	Implement Preconstruction and Post Construction Building Condition Surveys for Vibration	Implement Preconstruction and Post-Construction Building Condition Surveys for Vibration: Prior to construction or release of the TBM and cut-and-cover construction contract(s), the contractor will survey all structures that may be potentially impacted by construction vibration and submit the results to VTA for approval. Preconstruction building condition surveys of the interiors and exteriors of these structures will be conducted by independent surveyors to assess the baseline condition of each property that could be affected by construction vibration. The surveys will include written and photographic (video and still) records, including written descriptions and photos of any cracks.	Program-wide	2 D	c	Ρ	VTA/C	кс	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Shath Clara Station, and CP-4 Underground Stations, a General Engineening Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: No preconstruction building condition surveys were performed in Q4 2023. This measure will be implemented in future quarters as necessary.	

Valley Transportation						ase II - Environmenta ion Monitoring & Re	I Commitments Record								
 Automy 	1				windgat			1		1	1	L		2023	
Env Doc Chapter / Mitigation Topic Chapter / Mitigation Topic Chapter			мм	RP Code	¥					Im	mplementation			2023	
					h	5							1	Q4	Quarter
	ntal Document Chapter	Mitigation Topic	Chron o #	Measur	a # Source Doα	Summa	Mitigation Measure	Location	Tim eframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post- construction (P)	Responsible Party	Compliance Status		Mitigation Completed
Noise and Vibration/ mplement Preconstruction and Post- construction Building Condition Surveys for Vibration- Historic Buildings	Noise and Vibration	Implement Preconstruction and Post- Construction Building Condition Surveys for Vibration-Historic Buildings	132	- MMRP- NV- CNST-	R- Vol-3 02 ROE		Implement Preconstruction and Post-Construction Building Condition Surveys for Vibration- Historie Buildings: For historic structures, the Condition Assessment Report in accordance with Section 106 will be performed prior to any vibration-inducing construction to establish baseline building conditions. The results of the preconstruction surveys will be used the performance with vibration-inducing construction to establish baseline structure types and determine which vibration thresholds apply in consultation with a qualified structure types and determine which vibration thresholds apply in consultation with a qualified structure and a qualified architectural historian or a historic architect, as outlined in Mitigation Measure NV-CNST-P. Surveys will be conducted in all historic buildings to structures where vibration is expected to approach the applicable limit, and in non-historic buildings based on the building type and condition. VTA will determine the list of historic structures that may be affected by the project in consultation with a qualified structural engineer and the historic QP. Vibration will be monitored as required in Mitigation Measure NV-CNST-P to avoid adverse effects on properties during construction activities. The post-construction vibration effects on structures can be assessed. For historic structures, a Condition Assessment Report in accordance with Section 106, will be conducted after construction is complete. In the event of nadvertett, construction-related damage to historic vibrations will be conducted in accordance with the Secteary of the Interior's Standards for the Treatment of Historic Properties and consistent with 36 CFR 800.13(b). VTA and the historic QP will implement these repairs in consultation with FTA and SHPO.	Program-widi	2 D	c	Ρ	VTA/C	ĸ	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Stata Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PASE) packages. For CP-2 Tunnel and Trackwork: YTA received Condition Assessment Reports (CARs) for 5 locations in Q1 2023. In Q2 023, VTA conducted surveys at 3 historic properties, and preparation of the Condition Assessment Reports (CAR) are in the process of being prepared.	
oise and Vibration/ plement Measures to Reduce bration from Muck Extraction and upply Trains	Noise and Vibration	Implement Measures to Reduce Vibration from Muck Extraction and Supply Trains	133	- MMRP- NV- CNST-S	- Vol-1 ROE		Implement Measures to Reduce Vibration from Muck Extraction and Supply Trains: The contractor will ensure that muck extraction and supply train operations do not result in groundborne vibration in excess of 72 vdB at nearby residences. Measures that can be implemented include, but are not limited to, placement of ballist mats underenath tracks on which the muck extraction train rides or the use of a conveyor in place of a train.	Tunnel Alignment		c			к	The relevant contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork - This mitigation measure was included in the CP2 Conformed set under Vol 1 General Requirements, Section 01 & B1 20 Noise and Vibration Control, limited Notice to Proceed 1 issued 6/09/22. This measure was not implemented in Q4 2023 because construction, including muck extraction, has not yet commenced.	
oise and Vibration/ nplement Noise Reduction reatments at Ancillary Facilities	Noise and Vibration	Implement Noise Reduction Treatments at Ancillary Facilities	134	- MMRP- NV-A	Vol-1 ROE		Implement Noise Reduction Treatments at Ancillary Facilities: The contractor will implement noise reduction treatments at ancillary facilities such as tunnel ventilation shafts, pressue relief shafts, traction power substations, and emergency backup generators such that noise levels comply with applicable Cities of San Iose and Santa Clara noise criteria at nearby developed land uses. Treatments that will be implemented, if necessary, include but are not limited to: • Sound attenuators and acoustical absorptive treatments in ventilation shafts and facilities. • Sound attenuators for the tunnel emergency ventilation fans. • Perimeter noise walls (nominally an 8-foot-high wall) placed around emergency generators.	Systems (Ventilation Structures, Traction Power Substations, Emergency Backup Generators)		с		VTA/C	κ	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Shanta Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: This measure did not apply in Q4 2023 because construction has not commenced.	
loise and Vibration/ educe Groundborne Noise Levels	Noise and Vibration	Reduce Groundborne Noise Levels	135	- MMRP- NV-B	- Vol-3 ROE		Reduce Groundborne Noise Levels: The contractor will implement an Isolated Slab Track (IST) as the mitigation strategy for groundborne noise. An IST is a form of floating slab track (IST). The IST system is constructed with a continuous elastomeric main instead of discrete elastomeric pads that are typically used for an FST system. An IST can be designed to provide from 10 to 13 dBA of noise reduction. This strategy can also be used under a crossover. The locations for implementing this measure are shown in Tables 4.12-21 through 4.12-23 (summarized in DRBMP-NV-A). The project's final design will determine the specific mitigation strategy, which could include alternative strategies that similarly achieve the FTA groundborne noise criteria.	Tunnel Alignment		с		VTA/C	к	The relevant contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork - This mitigation measure was included in the CP2 Conformed set under Vol 2 Design Criteria Manual (DCM) Section 7.5 Trackway; limited Notice to Proceed 1 issued 6/09/22. This measure did not apply in Q4 2023 because construction has not commenced.	

Valley Transportation				1	BSV Pha	ase II - Environmenta	I Commitments Record								
Authority				1	Mitigat	ion Monitoring & Rep	porting Program								
														2023	
			мм	IRP Code	¥					Imp	olementat	ion		2023	
Env Doc Chapter / Mitigation Topic Docu	Environme				mer	2								Q4	Quarter
	ntal Document Chapter	Mitigation Topic	Chron o #	Measure	# Source Doct	Source Doo. Summa	Mitigation Measure	Location	Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post- construction (P)	Responsible Party	Compliance Status		Mitigation Completed
Utilities/ Prepare a San Jose Water Supply Infrastructure Capacity Assessment and Participate in the Improvements	Utilities	Prepare a San Jose Water Supply infrastructure Capacity Assessment	136	- MMRP- UTIL-A	- Vol-1, ROD	Prepare a San Jose Water Supply Infrastructure Capacity Assessment	Prepare a San Jose Water Supply Infrastructure Capacity Assessment and Participate in the Improvements: VTA will coordinate with San Jose Water Company (SIWC) and prepare a Cooperative Agreement to establish the BART Extension Alternative's participation in improvements to offsite water supply infrastructure. The SIWC may conduct a detailed engineering study and flow analysis to determine the extent of these impacts. The contractor will implement capacity-relief upgrades during the utility relocation phase of construction accordance with SIWC requirements. The contractor will ensure that all construction at Wites follow the provisions outlined in this environmental document, including implementation of Mitigation Measure TRA-CNST-A to reduce potential impacts and increase participation.	28th Street/Little Portugal Station (Alum Rock); Downtown San Jose Station; Diridon Station	D		р	VTA	iC	TOD is not included in CP1 through CP4. Once TOD contracts are underway these measures will be addressed.	
Utilities/ Prepare a Santa Clara Water Supply Infrastructure Capacity Assessment and Participate in the Improvements	Utilities	Prepare a Santa Clara Water Supply Infrastructure Capacity Assessment	137	- MMRP- UTIL-B	- Vol-1, ROD	Prepare a Santa Clara Water Supply Infrastructure Capacity Assessment	Prepare a Santa Clara Water Supply Infrastructure Capacity Assessment and Participate in the Improvements: VTA will condinate with the Clyro Santa Clara Water and Sever Utility (SCWSU) and prepare a Cooperative Agreement to establish the BART Extension Alternative's participation in Improvements to offsite water supply infrastructure: The SCWSU may conduct a detailed engineering study and flow analysis to determine the extent of these impacts and participation. The SCWSU may conduct the contractor will implement capacity-relief upgrades during the utility relocation phase of construction in accordance with Chapter 17.15.210 of the Santa Clara City Code. The contractor will ensure that all construction activities follow the provisions outlined in this environmental document, including implementation of the construction and	Santa Clara Station	D		Ρ	VTA	IC	TOD is not included in CP1 through CP4. Once TOD contracts are underway these measures will be addressed.	
Utilities/ Prepare a San Jose Sewer Capacity Assessment and Participate in the Improvements	Utilities	Prepare a San Jose Sewer Capacity Assessment	138	- MMRP- UTIL-C	- Vol-1 ROD		Prepare 3 San Jose Sewer Capacity Assessment and Participate in the Improvements: VTA will coordinate with the San Jose Department of Public Works (SJPW) to prepare a Cooperative Agreement to establish the BAR1 Extension Alternative's participation in improvements to offsite sanitary sewer capacity deficiencies. SJPW may conduct a detailed engineering study and hydraulic analysis to determine the extent of these impacts. VTA will mitigate impacts on downstream sever systems in San Jose through payment of the Sanitary Sewer Connection Fee, as required, which is used to rehabilitate and enhance sever capacity through San Jose's Sanitary Sewer Capital Improvement Program. If payment to the Sanitary Sewer Connection Fee as not adequately intigate potential Offsite sever capacity impacts related to the BART Extension, VTA will be responsible for direct upgrades to the sever system. If sever system overcapacity is a result of projected cumulative development, San Jose and VTA will develop a Cooperative Agreement to determine the BART Extension Alternative's participation in upgrades to the current system. The contractor will implement capacity-relief upgrades during the BART Extension's construction phase in accordance with applicable San Jose standards regarding sever infrastructure improvements. Generally, the contractor will locate sever infrastructure improvements within the existing public right-of-way, with minimal potential to impact sensitive environmental resources. The contractor will locate sever infrastructure follow the provisions outlined in this environmental document, including implementation of the construction advanced and outreach plan, to reduce potential impacts.	28th Street/Little Portugal Station (Alum Rock): Downtown San Jose Station; Diridon Station	D		p	VTA	ιc	TOD is not included in CP1 through CP4. Once TOD contracts are underway these measures will be addressed.	

Valley Transportation								l Commitments Record								
Authority					Miti	gatio	n Monitoring & Rep	porting Program								
			M	VIRP Code		ant					Im	plementat	ion		2023	
Env Doc Chapter / Mitigation Topic Do	Environme ntal Document Chapter	Mitigation Topic	Chron o #	Measur	e#	Source Docum	Summary	Mitigation Measure	Location	Tim eframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post- construction (P)	Responsible Party	Compliance Status	04	Quarter Mitigation Completed
Utilities/ Prepare a Santa Clara Sewer Capacity Assessment and Participate in the Improvements	Utilities	Prepare a Santa Clara Sewer Capacity Assessment	139	- MMRP- UTIL-D			Prepare a Santa Clara Sewer Capacity Assessment	Prepare a Santa Clara Sever Capacity Assessment and Participate in the Improvements: VTA will coordinate with SCWD to prepare a Cooparityed Agreement to establish the BART Extension Alternative's participation in improvements to offsite sanitary sever capacity deficiencies. SCWD uny conduct a detailed engineering study and hydraulic analysis to determine the extent of these impacts. VTA will mitigate impacts on downstream sever systems in Santa Clara through payment of the Sanitary Sever Connection Charge, as required, which is used to rehabilitate and enhance sever capacity through Santa Clara's Capital Improvement Program. If payment to the Sanitary Sever Connection Charge does not adequately mitigate potential offsite sever capacity impacts related to the BART Extension, VTA will be responsible for direct upgrades to the sever system. If sever system overcapacity is a result of cumulative development, Santa Clara and VTA will develop a Cooperative Agreement to 0 determine the BART Extension Alternative's proortional participation to the upgrades to current system capacity. The contractor will implement capacity-relief upgrades improvements during the BART Extension's construction phase in accordance with Chapter 17.15.210-280 of the Santa Clara Cly Code. Generally, the contractor will cost sever (infrastructure improvements) within the existing public right-of-way, with minimal potential to impact sensitive environmental resources. The contractor will ensure that construction activities follow the provisions outlined in the environmental document, including implementation of the construction education and outreach plan, to reduce potential impacts.	Santa Clara Station	D		Ρ	VTA	ic	TOD is not included in CP1 through CP4. Once TOD contracts are underway these measures will be addressed.	
Visual Quality and Aesthetics/ Replace Trees	Visual Quality and Aesthetics	Replace Trees	140	- MMRP- AES- CNST-A		′0ŀ1,	Replace Trees	Replace Trees: The contractor will inventory trees that will be removed due to construction activities and will note each tree on construction plans before construction begins. VTA will compensate for any trees removed according to the following ratios. VTA will replace all urban trees that are to be removed or lost as a result of the BART Extension to the extent feasible. VTA will replace trees with a diameter of less than 12 inches at a 2:1 ratio, and trees with a diameter of 12 inches or more at a 3:1 ratio. It than trees (nonnatives and ornamentals) are replaced with native trees, VTA will use a reduced mitigation ratio of 1:1 inches or more. VTA will replace trees with a diameter of 12 inches or more. VTA will regrate and maintain these trees for a period of no less than 3 years. If VTA cannot replace trees at the stated ratios along the alignment, VTA will again refers. For any landscaping adjacent to the creeks and on VTA right of-way (ROW), VTA will adhere to the SCVWD'S Guidelines and Standards for Land Use Near Streams regarding the use of native species near the creeks.	Program-wide	D	c		VTA/C	ίC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: Two Washington fan palms (<i>Washingtonia robusta</i>) were scheduled for removal at the Newhall Maintenance Yard in Q4.2023. The inventory for the reglacement ratio, can be found in the project sharepoint under the applicable ECR measure folder.	

Valley Transportation				-		se II - Environmenta on Monitoring & Rep	l Commitments Record porting Program								
Env Doc Chapter / Mitigation Topic Docum	-		MN	MMRP Code						Implementation				2023	
	ntal Document Chapter	Mitigation Topic	Chron o #	Measure #	Source Docum	Summary	Mitigation Measure	Location	Tim eframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post- construction (P)	Responsible Party	Compliance Status		Quarter Mitigation Completed
Visual Quality and Aesthetics/ Minimize Light and Glare (for TOJD)	Visual Quality and Aesthetics	Minimize Light and Glare (for TOJD)	141	- MMRP AES-A	Vol-1, ROD		Minimize Light and Glare (for TOJD): For the TOJDs, the contractor will install low-profile, low- intensity outdoor lighting directed downward to minimize light and glare where feasible. The contractor will also install shielded fixtures for street and pedestrian lighting to minimize glare.	TOJD	D	с			IC	TOD is not included in CP1 through CP4. Once TOD contracts are underway these measures will be addressed.	
Water Resources, Water Quality, and Floodplains/ Design and Implement Stormwater Control Measures	Water Resources, Water Quality, and Floodplains	Stormwater Control Measures	142	- MMRP WQ-A	Vol-1, ROD	Design and Implement Stormwater Control Measures	Design and Implement Stormwater Control Messures: The BART Extension will be designed in accordance with the Phase III MS4 Permit, Section F52, gird post-construction stormwater management. Post-construction stormwater controls shall be implemented to reduce total runoff rates and associated pollutant discharges. VTA managed facilities will follow the VTA's Stormwater and Landscaping Design Criteria Manual. After designs are finalized, a Stormwater Management Report, including detailed hydrologic and hydraulic calculations, analysis, and conclusions, shall be prapared to document the final design for stormwater management and the storm drain system and for obtaining the requisite approvals, and will outline all required Operation and Maintenance needs recommended by the designer for the post-construction stormwater management facilities.	Program-wide	D	с	P	VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3 Newhill Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: This measure did not apply in Q4 2023 because construction has not commenced.	