

Devil's Gate Reservoir Restoration Project



Public Works
LOS ANGELES COUNTY



Presented by: Brittany Barker

Agenda

- Construction Overview
- Habitat Restoration
- 2019 Sediment Hauling Season
- Hauling Routes
- Best Management Practices
- Traffic Impacts
- Air Monitoring
- Haul Truck Monitoring
- Local and Targeted Worker Hire
- Ongoing Communication
- Questions



Construction

Phase 1 – Habitat Restoration

(on-going)

Phase 2 – Vegetation Removal

(Completed January 2019)

Access Road Construction

(Completed April 2019)

Phase 3 – Sediment Removal

May 21, 2019 – November 15, 2019

April – November (2020-2022)



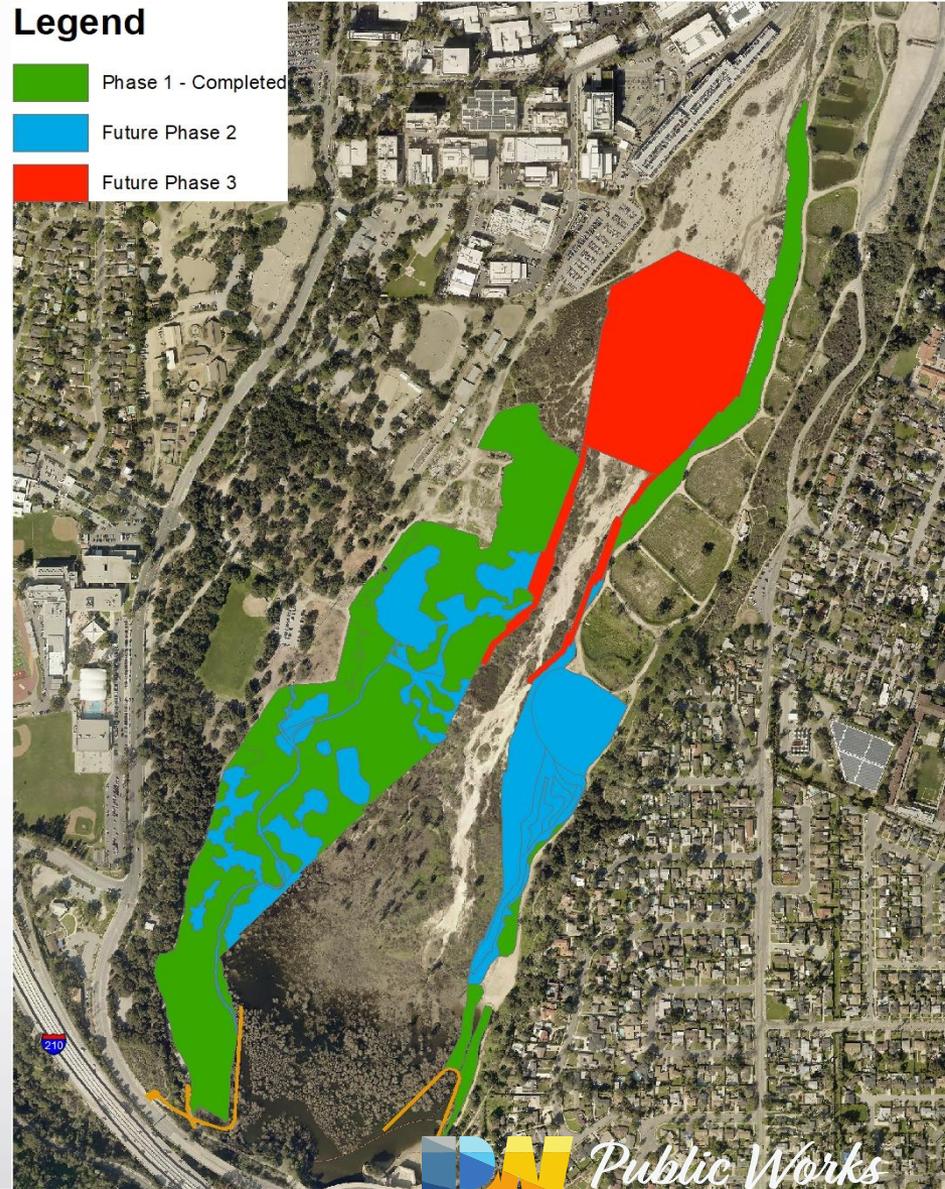


Phase 1: Habitat Restoration

- Ongoing weed abatement
- Irrigation installation
- Planted to date:
 - 300 coast live oak acorns
 - 4,407 container plants
 - ~72 lbs. of seed

Legend

-  Phase 1 - Completed
-  Future Phase 2
-  Future Phase 3





Phase 1: Habitat Restoration





Phase 1: Habitat Restoration





Phase 3: Sediment Removal

Completion of the 2019
Hauling Season:

Total Days of Hauling – 96

Total Truck Trips – 31,284

Volume Removed ~445,460 cy
26% of 1.7 MCY

Trucks Used Daily – up to 85

Maximum Roundtrip
Truck Trips - 425





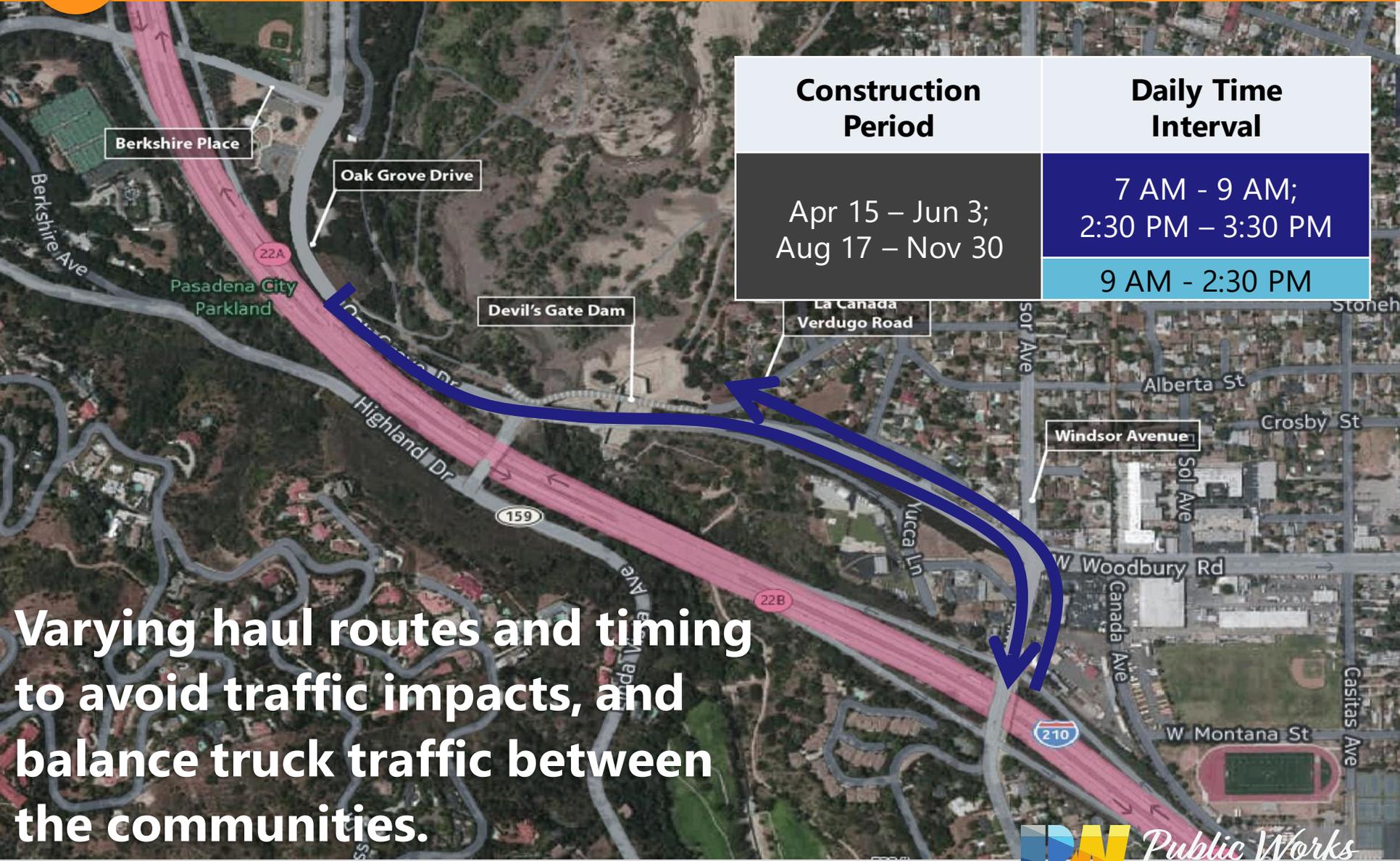
Hauling Schedule

- Removal of 1.7 MCY of sediment, in addition to any inflows over 4 years
- April - November (2020 – 2022)
- Approximately 95 trucks will be used to make a maximum of 425 roundtrip truck trips daily
- Hauling Hours:
 - Monday-Friday, 7:00 am to 3:30 pm
 - No work:
 - Weekends
 - Holidays
 - Red Flag Warning Days
 - Major Rose Bowl events





Taking a Community-First Approach

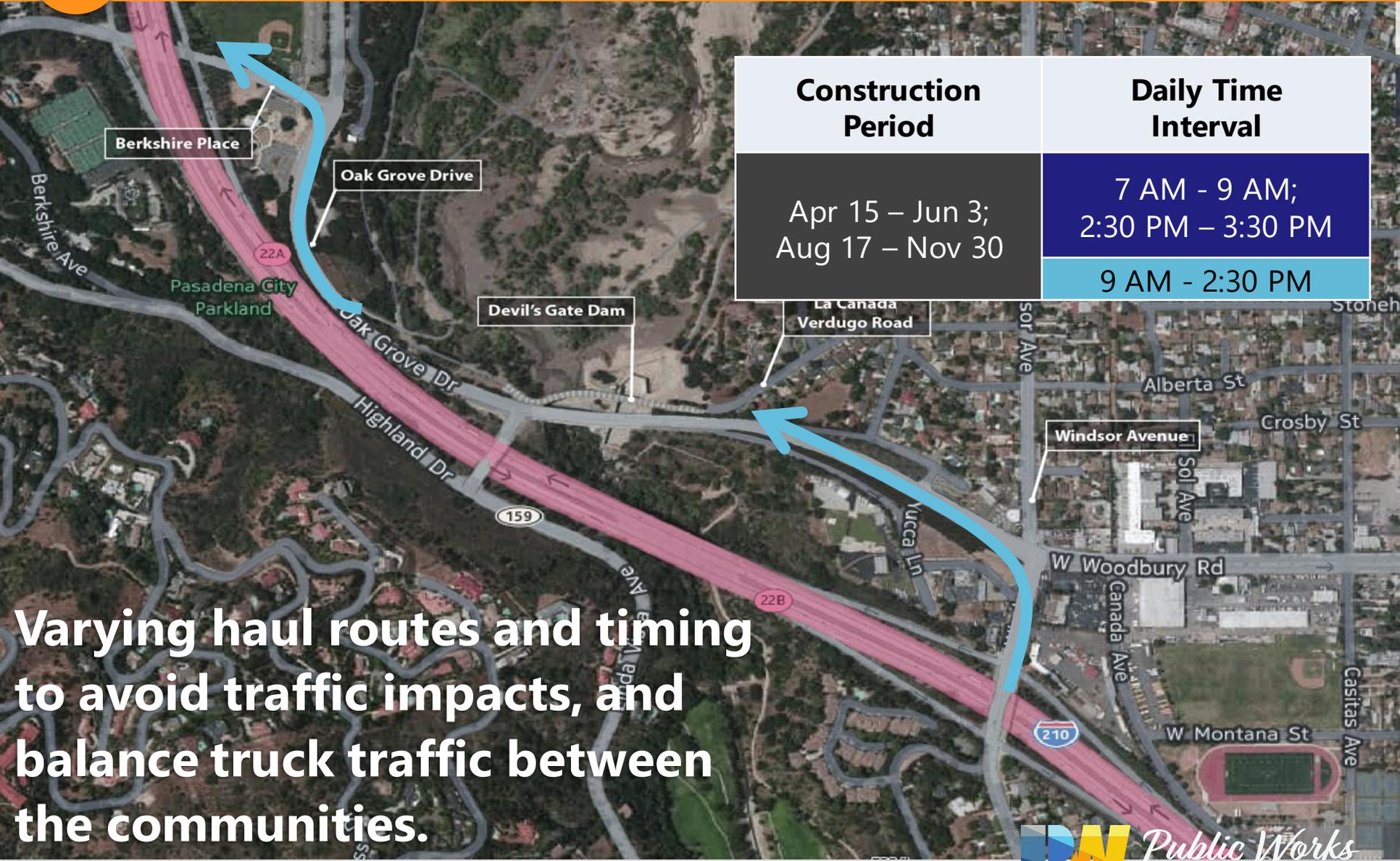


Varying haul routes and timing to avoid traffic impacts, and balance truck traffic between the communities.





Taking a Community-First Approach



Construction Period	Daily Time Interval
Apr 15 – Jun 3; Aug 17 – Nov 30	7 AM - 9 AM; 2:30 PM – 3:30 PM
	9 AM - 2:30 PM

Varying haul routes and timing to avoid traffic impacts, and balance truck traffic between the communities.





Taking a Community-First Approach



Construction Period	Daily Time Interval
Jun 4 – Aug 14	7 AM – 3:30 PM

Varying haul routes and timing to avoid traffic impacts, and balance truck traffic between the communities.





Responsible Sediment Hauling



Trucks meet EPA 2010 Emission Standards



Dust Control Measures Inside Reservoir



Watering at excavation operations



Responsible Sediment Hauling



Cleaning outside of trucks



Responsible Sediment Hauling



Watering tops of loads



Responsible Sediment Hauling



Maintaining Proper Freeboard



Additional Dust Mitigation Measures Implemented



Additional rumble plates inside reservoir



Additional Dust Mitigation Measures Implemented



Double tire wash at Devil's Gate Reservoir exit



Traffic Impacts

School In-Session and Summer Session - Minimal traffic impact reported.

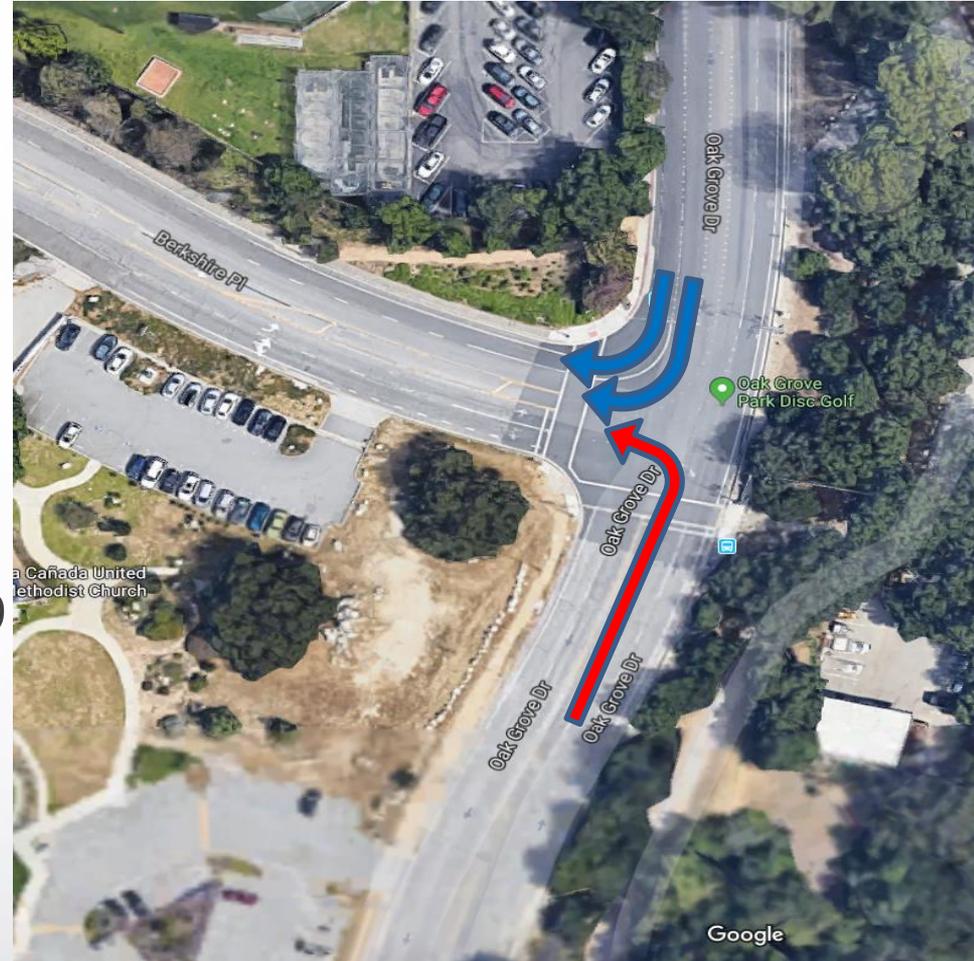
- Shift in haul routes during school session to avoid afternoon pick-ups.

Windsor/Oak Grove Intersection -

- Left turn signal installed on 6/1/19

Oak Grove/Berkshire Intersection Improvements -

- Installation started on January 27, 2020. Completed by end of March.





Draft Air Quality Monitoring Workplan

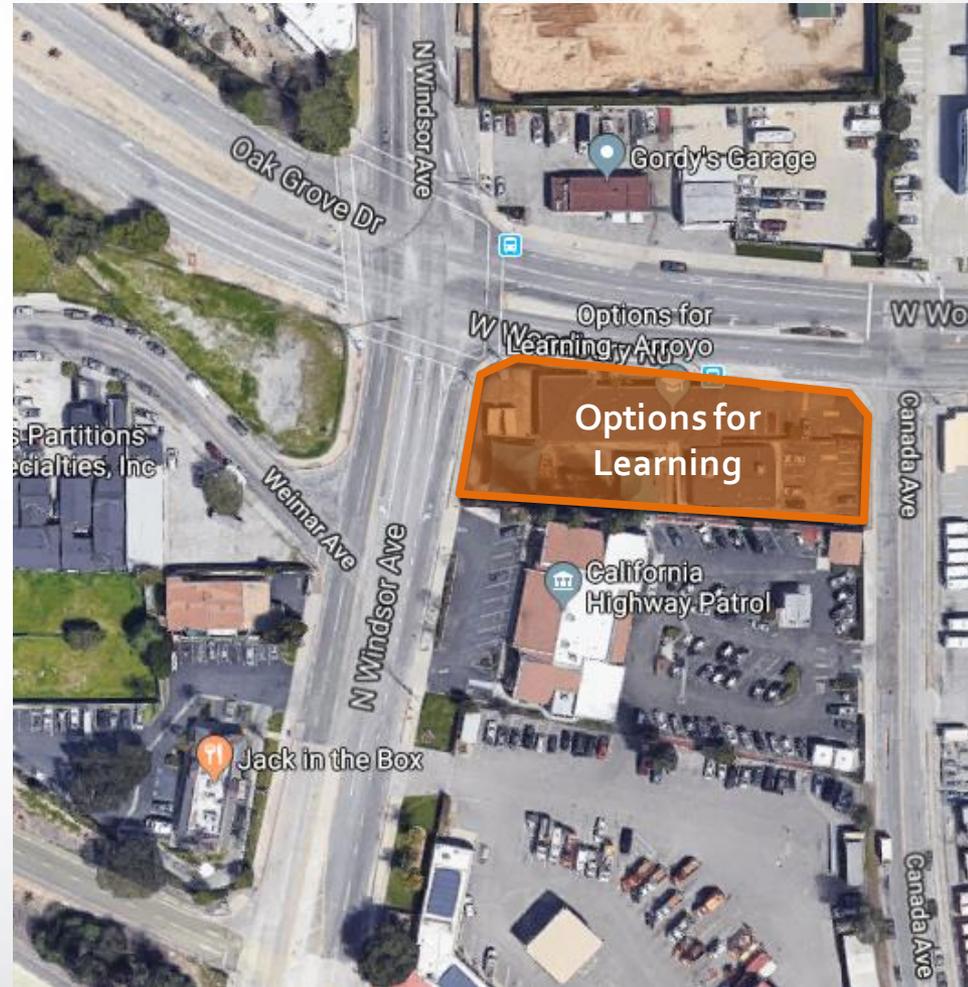
Station ID	Sampling Station	Parameter Measured
1	Ambient/Community Monitoring <i>[Upwind of 210-FWY (afternoon) / upwind of Site (night)]</i>	- PM ₁₀ , PM _{2.5} , and BC - NO ₂ and O ₃ - Wind speed, wind direction, temperature, humidity
2	Ambient/Community Monitoring <i>[Upwind of 210-FWY (afternoon) / downwind from Site (night)]</i>	- PM ₁₀ , PM _{2.5} , and BC - NO ₂ and O ₃ - Wind speed, wind direction, temperature, humidity
3	Site Compliance Monitoring	- PM ₁₀ and PM _{2.5} - NO ₂ and O ₃ - Wind speed, wind direction, temperature, humidity
4	Site Compliance Monitoring	- PM ₁₀ and PM _{2.5} - NO ₂ and O ₃ - Wind speed, wind direction, temperature, humidity
5	Site Compliance Monitoring	- PM ₁₀ and PM _{2.5} - NO ₂ and O ₃ - Wind speed, wind direction, temperature, humidity
6	Ambient/Community Monitoring <i>[Source monitoring]</i>	- PM ₁₀ , PM _{2.5} , and BC - NO ₂ and O ₃ - Wind speed, wind direction, temperature, humidity
7	Ambient/Community Monitoring <i>[Source monitoring]</i>	- PM ₁₀ , PM _{2.5} , and BC - NO ₂ and O ₃ - Wind speed, wind direction, temperature, humidity





Air Quality Monitoring Additional Location #7

- Community requested additional Air Monitoring Station be placed in Altadena, adjacent to haul route.
- Station to be located at Options for Learning Preschool on corner of Windsor Ave. & Oak Grove Dr.
- Logistical discussions currently underway between Tetra Tech and Site Director to establish monitor prior to start of 2020 hauling.





Air Quality Monitoring Dust

- Air Quality Consultant (Tetra Tech) collecting hourly PM_{10} readings
- AQMD Rule 403 – PM_{10} difference between upwind & downwind $< 50 \mu g/m^3$
- Very few PM_{10} exceedances
 - If there is an exceedance, operations are modified to prevent a reoccurrence.
- Daily PM_{10} monitoring results available on website:
 - DevilsGateProject.com » Resources » Air Monitoring





Haul Truck Monitoring

- Public Works is currently working to develop and implement a Phase II monitoring program, in coordination with:
 - California Air Resources Board
 - University of California, Riverside Center for Environmental Research and Technology
 - Community stakeholders (LCF for Healthy Air)
- Phase II will track and measure emissions coming directly from haul trucks working on the Project.



Haul Truck Monitoring

- Phase II monitoring program will consist of 2 parts:
 - Part A –
 - Perform a diagnostic reading download
 - Install a device to record performance and emissions during one roundtrip haul trip
 - Part B –
 - Installing a sensor to measure emissions directly from tailpipe during one roundtrip haul trip

Estimated to begin in Spring 2020



Local and Targeted Worker Hire Program



December 7, 2018 Job Fair – The Flintridge Center, Pasadena



Ongoing Communication

- Dedicated Website
 - Resources Tab
- Email blast project updates
- Newsletter
- Continued community engagement with regular updates



DevilsGateProject.com



Talk to Us

Questions?

For More Information:

Subscribe to our e-mail list to receive updates on the project.



[DevilsGateProject.com](https://www.DevilsGateProject.com)



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